09/07/2021	Kit Components	
Product code	Description	
COP-001KT	ONE Pesticide420 TM kit	
Components:		
COP-Cal-01	ONE Pesticide420 TM Calibrator 1	
COP-Cal-02	ONE Pesticide420 TM Calibrator 2	
COP-Cal-03	ONE Pesticide420 TM Calibrator 3	
COP-Cal-04	ONE Pesticide420 TM Calibrator 4	
COP-Cal-05	ONE Pesticide420 TM Calibrator 5	
COP-Cal-06	ONE Pesticide420 TM Calibrator 6	
COP-Cal-07	ONE Pesticide420 TM Calibrator 7	
COP-Cal-08	ONE Pesticide420 TM Calibrator 8	
COP-QC-01	ONE Pesticide420 TM Quality Control 1	

ONE Pesticide420 TM Quality Control 2

ONE Pesticide420 TM Quality Control 3
ONE Pesticide420 TM Stock Calibrator

ONE Pesticide420 TM Internal Standard

COP-QC-02

COP-QC-03

COP-StockCal
COP-IntStd

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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Calibrator 1
- · Product number: COP-Cal-01
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

<i>Dangerous co. 75-05-8</i>	acetonitrile	75-100%
	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	<0.1%
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	<i>3 ppm</i>
		(Contd. on page 4)

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67-56-1	methanol	(Contd. of page 530 ppm
	Piperonylbutoxide	6.5 mg/m^3
	coumaphos (ISO)	$\frac{0.3 \text{ mg/m}}{0.27 \text{ mg/m}^3}$
	dimethoate (ISO)	$\frac{0.27 \text{ mg/m}}{2.7 \text{ mg/m}^3}$
	dichlorvos (ISO)	$\frac{2.7 \text{ mg/m}}{1.8 \text{ mg/m}^3}$
	carbaryl (ISO)	$\frac{1.5 \text{ mg/m}}{1.5 \text{ mg/m}^3}$
	quintozene (ISO)	$\frac{1.5 \text{ mg/m}^3}{1.5 \text{ mg/m}^3}$
	propoxur (ISO)	$\frac{1.5 \text{ mg/m}^3}{1.5 \text{ mg/m}^3}$
	aldicarb (ISO)	0.027 mg/m^3
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-	$\frac{0.027 \text{ mg/m}}{15 \text{ mg/m}^3}$
	chrysanthemate	O
	malathion (ISO)	15 mg/m ³
	captan (ISO)	15 mg/m ³
	parathion -methyl (ISO)	0.11 mg/m^3
732-11-6	phosmet (ISO)	0.049 mg/m
1563-66-2	carbofuran (ISO)	0.3 mg/m^3
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
7786-34-7	mevinphos (ISO)	0.3 mg/m^3
13194-48-4	ethoprophos (ISO)	0.14 mg/m^3
16752-77-5	methomyl	0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
96740-32-8	parathion -methyl (ISO)-d6	0.11 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m^3
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m^3
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m^3
1189877-72-2	malathion-d6 (ISO)	15 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m³
PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 ppm
51-03-6	Piperonylbutoxide	72 mg/m³
56-72-4	coumaphos (ISO)	3 mg/m ³
60-51-5	dimethoate (ISO)	30 mg/m ³
62-73-7	dichlorvos (ISO)	20 mg/m³
63-25-2	carbaryl (ISO)	100 mg/m ³
82-68-8	quintozene (ISO)	28 mg/m³
114-26-1	propoxur (ISO)	6.7 mg/m^3
116-06-3	aldicarb (ISO)	0.3 mg/m^3
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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		(Contd. of page 5)
	parathion -methyl (ISO)-d6	3.5 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
	Coumaphos-d10 (ISO)	13 mg/m³
	carbaryl-d7 (ISO)	600 mg/m³
1189877-72-2	malathion-d6 (ISO)	390 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-0	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
62-7.	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
TLV	Long-term value: $0.1*$ mg/m ³ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

(Contd. on page 7)

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Parameter: Cholinesterase activity (nonspecific)

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical	and	chemical	pro	perties
			-	

General Information	
Appearance: Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

(Contd. on page 9)

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		(Contd. of page 8
· Viscosity:	W. J	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 valu	es that are relevant for classification:
75-05-8		<u> </u>
Oral	LD50	2,730 mg/kg (rat)
		1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
7786-34	-7 mev	inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
D .	• •	of afficients

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

(Contd. on page 11)

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(Contd. of page 10)

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	UN1993
· UN proper shipping name · ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE
· IMDG	ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthri (ISO)), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
· ADR, IMDG	
· Class	3 Flammable liquids
· Class	3 Flammable liquids
· Packing group · ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page 1
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometally compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (extremely hazardous substances):		
56-72-4	coumaphos (ISO)	
60-51-5	dimethoate (ISO)	
62-73-7	dichlorvos (ISO)	
116-06-3	aldicarb (ISO)	
298-00-0	parathion -methyl (ISO)	
732-11-6	phosmet (ISO)	
1563-66-2	carbofuran (ISO)	
2032-65-7	mercaptodimethur (ISO)	
7786-34-7	mevinphos (ISO)	
13194-48-4	ethoprophos (ISO)	
16752-77-5	methomyl	
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N -methylcarbamate	
96740-32-8	parathion -methyl (ISO)-d6	
203645-53-8	dichlorvos-d6 (ISO)	
287397-86-8	Coumaphos-d10 (ISO)	
1219794-81-6	dimethoate-d6 (ISO)	
	phosmet-d6 (ISO)	
	(Contd. or	pag

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· Section 313	(Specific toxic chemical listings):	d. of page
	acetonitrile	
	formic acid	
ľ	methanol	
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
114-26-1	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
	imazalil (ISO)	
52645-53-1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropaneca	rboxyla
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
· TSCA (Toxio	c Substances Control Act):	
,	8 acetonitrile	ACTI
64-18-	6 formic acid	ACTI
67-56-	I methanol	ACTI
51-03-	6 Piperonylbutoxide	ACTI
60-51-	5 dimethoate (ISO)	ACTI
	7 dichlorvos (ISO)	ACTI
	2 carbaryl (ISO)	ACTI
	8 quintozene (ISO)	ACTI
	3 aldicarb (ISO)	ACTI
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-	
	methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(Contd. of page 13
	captan (ISO)	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE
163165-75-1	Atrazine-d5	ACTIVE
203645-53-8	dichlorvos-d6 (ISO)	ACTIVE
362049-56-7	carbaryl-d7 (ISO)	ACTIVE
1219794-81-6	dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	Piperonylbutoxide-d9	ACTIVE
1330190-00-5	Captan-d6	ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
Hazardous Air	r Pollutants	
75-05-8	acetonitrile	
	methanol	
62-73-7	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
	propoxur (ISO)	
	captan (ISO)	
	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
1330190-00-5		
	quintozene-13C6 (ISO)	
Proposition 65	5	
Chemicals know	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
114-26-1	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	kresoxim-methyl (ISO)	
	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
	Ochratoxin A-d5	
	malathian de (ISO)	
1189877-72-2 1330190-00-5		

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaals kn	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males: carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	•	
	own to cause developmental toxicity: methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	2.110. py. you (2.1011); u1 0) (12 0)	
362049-56-7	carbaryl-d7 (ISO)	
	carbaryl-d7 (ISO) myclobutanil-d9 categories	
Carcinogenic EPA (Environ	myclobutanil-d9 categories nmental Protection Agency)	lana
Carcinogenic EPA (Environ 75-05-8	categories amental Protection Agency) acetonitrile	CBD
Carcinogenic EPA (Environ 75-05-8 62-73-7	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresher 75-05-8	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2

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		(Contd. of page 1
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	<u> </u>
133-06-2 capt	an (ISO)	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Calibrator 2
- · Product number: COP-Cal-02
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300 If outside USA, call CHEMTREC at 1-703-527-3887

If oursine Con, can Charling at 1 703 527 500

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	<0.1%
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	<i>3 ppm</i>
		(Contd. on page 4

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67-56-1	methanol	Contd. of pag 530 ppm
	Piperonylbutoxide	$\frac{6.5 \text{ mg/m}^3}{6.5 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{0.3 \text{ mg/m}}{0.27 \text{ mg/m}}$
	dimethoate (ISO)	$\frac{0.27 \text{ mg/m}}{2.7 \text{ mg/m}^3}$
	dichlorvos (ISO)	$\frac{2.7 \text{ mg/m}^3}{1.8 \text{ mg/m}^3}$
	carbaryl (ISO)	
	quintozene (ISO)	$\frac{1.5 \text{ mg/m}^3}{1.5 \text{ mg/m}^3}$
	- , , ,	
	propoxur (ISO) aldicarb (ISO)	1.5 mg/m^3
		0.027 mg/r
121-21-1	$\label{lem:condition} $$2$-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m
732-11-6	phosmet (ISO)	0.049 mg/i
1563-66-2	carbofuran (ISO)	0.3 mg/m^3
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m^3
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
7786-34-7	mevinphos (ISO)	0.3 mg/m^3
13194-48-4	ethoprophos (ISO)	0.14 mg/m
16752-77-5	methomyl	0.91 mg/m
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m
96740-32-8	parathion -methyl (ISO)-d6	0.11 mg/m
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m ³
1189877-72-2	malathion-d6 (ISO)	15 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m³
PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 ppi
51-03-6	Piperonylbutoxide	72 mg/m ³
56-72-4	coumaphos (ISO)	3 mg/m ³
60-51-5	dimethoate (ISO)	30 mg/m ³
62-73-7	dichlorvos (ISO)	20 mg/m ³
63-25-2	carbaryl (ISO)	100 mg/n
82-68-8	quintozene (ISO)	28 mg/m ²
114-26-1	propoxur (ISO)	6.7 mg/m
	aldicarb (ISO)	0.3 mg/m
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	
		Contd. on pag

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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			(Contd. of page 5)
		parathion -methyl (ISO)-d6	3.5 mg/m^3
Ī		dichlorvos-d6 (ISO)	200 mg/m³
	285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
		Coumaphos-d10 (ISO)	13 mg/m³
	362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
		malathion-d6 (ISO)	390 mg/m³
	1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-05	75-05-8 acetonitrile (75-100%)		
PEL	Long-term value: 70 mg/m³, 40 ppm		
REL	Long-term value: 34 mg/m³, 20 ppm		
TLV	Long-term value: 20 ppm Skin, A4		
<i>62-73</i>	62-73-7 dichlorvos (ISO) (<0.1%)		
PEL	Long-term value: 1 mg/m³ Skin		
REL	Long-term value: 1 mg/m³ Skin		
	Long-term value: $0.1* mg/m^3$ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4		

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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		A A 144 1 A A I	nuanautias
		11.31111.WIII	properties
2 _ 0,00000			properties

General Information Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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		(Contd. of page 8
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

) value	es that are relevant for classification:
aceton	itrile
LD50	2,730 mg/kg (rat)
LD50	1,250 mg/kg (rabbit)
2 chlo	rpyrifos (ISO)
LD50	135 mg/kg (rat)
LD50	202 mg/kg (rat)
	inphos (ISO)
LD50	4 mg/kg (rat)
LD50	4 mg/kg (rat)
81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
LD50	135 mg/kg (rat)
LD50	202 mg/kg (rat)
	LD50 LD50 LD50 LD50 LD50 LD50 LD50 LD50

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

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- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthr (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page 1
· EMS Number:	F-E,S-E
· Segregation groups	Heavy metals and their salts (including their organometall compounds)
· Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· ADR	
· Excepted quantities (EQ)	Code: E2
· · · · · ·	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 355 (e.	xtremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N -methylcarbamate
96740-32-8	parathion -methyl (ISO)-d6
203645-53-8	dichlorvos-d6 (ISO)
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)

(Contd. on page 13)

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· Section 313	(Specific toxic chemical listings):	d. of page
	acetonitrile	
	formic acid	
ľ	methanol	
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
114-26-1	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
	imazalil (ISO)	
52645-53-1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropaneca	rboxyla
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
· TSCA (Toxio	c Substances Control Act):	
,	8 acetonitrile	ACTI
64-18-	6 formic acid	ACTI
67-56-	I methanol	ACTI
51-03-	6 Piperonylbutoxide	ACTI
60-51-	5 dimethoate (ISO)	ACTI
	7 dichlorvos (ISO)	ACTI
	2 carbaryl (ISO)	ACTI
	8 quintozene (ISO)	ACTI
	3 aldicarb (ISO)	ACTI
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-	
	methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(Contd. of page 1
	2 captan (ISO)	ACTIVE
	diazinon (ISO)	ACTIVE
	2 carbofuran (ISO)	ACTIVE
	l Atrazine-d5	ACTIVE
203645-53-8	8 dichlorvos-d6 (ISO)	ACTIVE
362049-56-7	7 carbaryl-d7 (ISO)	ACTIVE
	6 dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	8 Piperonylbutoxide-d9	ACTIVE
1330190-00-3	5 Captan-d6	ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
Hazardous A	ir Pollutants	
75-05-8	8 acetonitrile	
67-56-	l methanol	
62-73-7	dichlorvos (ISO)	
63-25-2	2 carbaryl (ISO)	
82-68-8	8 quintozene (ISO)	
114-26-	l propoxur (ISO)	
133-06-2	2 captan (ISO)	
203645-53-8	8 dichlorvos-d6 (ISO)	
362049-56-7	7 carbaryl-d7 (ISO)	
1330190-00-3	5 Captan-d6	
	quintozene-13C6 (ISO)	
Proposition 6	55	
Chemicals kn	nown to cause cancer:	
62-73-7	7 dichlorvos (ISO)	
	2 carbaryl (ISO)	
114-26-	l propoxur (ISO)	
121-75-3	5 malathion (ISO)	
133-06-2	2 captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-3	5 daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	4 ethoprophos (ISO)	
35554-44-0	mazalil (ISO)	
72490-01-8	8 ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	8 dichlorvos-d6 (ISO)	
	7 carbaryl-d7 (ISO)	
302049-30-7		
302049-30-7	Ochratoxin A-d5	
	Ochratoxin A-d5 2 malathion-d6 (ISO)	

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
~		
	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males:	
	carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	own to cause developmental toxicity:	
	methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1	Atrazine-d5	
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
ı	1.1 1.10	
	myclobutanil-d9	
	•	
Carcinogenic	categories	
Carcinogenic EPA (Enviror	•	CBD
Carcinogenic EPA (Environ 75-05-8	categories nmental Protection Agency) acetonitrile	
Carcinogenic EPA (Environ 75-05-8 62-73-7	categories mmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 56-72-4 62-73-7	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 56-72-4 62-73-7	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-6 300-76-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO) naled (ISO) diazinon (ISO)	D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C

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		(Contd. of page 1
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A
163165-75-1	Atrazine-d5	A
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A
1216605-57-0	Naled-d6 (ISO)	A
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	
133-06-2 capt	an (ISO)	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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1 Identification

· Product identifier

· Trade name: ONE Pesticide420 TM Calibrator 3

· Product number: COP-Cal-03

· Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300 If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling: acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous co	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
71751-41-2	dimethylcyclopropanecarboxylate abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	3 ppm
		(Contd. on page 4

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67-56-1	methanol	Contd. of pag 530 ppm
	Piperonylbutoxide	$\frac{6.5 \text{ mg/m}^3}{6.5 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{0.3 \text{ mg/m}}{0.27 \text{ mg/m}}$
	dimethoate (ISO)	$\frac{0.27 \text{ mg/m}}{2.7 \text{ mg/m}^3}$
	dichlorvos (ISO)	$\frac{2.7 \text{ mg/m}^3}{1.8 \text{ mg/m}^3}$
	carbaryl (ISO)	
	quintozene (ISO)	$\frac{1.5 \text{ mg/m}^3}{1.5 \text{ mg/m}^3}$
	- , , ,	
	propoxur (ISO) aldicarb (ISO)	1.5 mg/m^3
		0.027 mg/r
121-21-1	$\label{lem:condition} $$2$-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m
732-11-6	phosmet (ISO)	0.049 mg/i
1563-66-2	carbofuran (ISO)	0.3 mg/m^3
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m^3
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
7786-34-7	mevinphos (ISO)	0.3 mg/m^3
13194-48-4	ethoprophos (ISO)	0.14 mg/m
16752-77-5	methomyl	0.91 mg/m
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m
96740-32-8	parathion -methyl (ISO)-d6	0.11 mg/m
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m ³
1189877-72-2	malathion-d6 (ISO)	15 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m³
PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 ppi
51-03-6	Piperonylbutoxide	72 mg/m ³
56-72-4	coumaphos (ISO)	3 mg/m ³
60-51-5	dimethoate (ISO)	30 mg/m ³
62-73-7	dichlorvos (ISO)	20 mg/m ³
63-25-2	carbaryl (ISO)	100 mg/n
82-68-8	quintozene (ISO)	28 mg/m ²
114-26-1	propoxur (ISO)	6.7 mg/m
	aldicarb (ISO)	0.3 mg/m
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	
		Contd. on pag

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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			(Contd. of page 5)
		parathion -methyl (ISO)-d6	3.5 mg/m^3
Ī		dichlorvos-d6 (ISO)	200 mg/m³
	285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
		Coumaphos-d10 (ISO)	13 mg/m³
	362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
		malathion-d6 (ISO)	390 mg/m³
	1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-05	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
<i>62-73</i>	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
	Long-term value: $0.1* mg/m^3$ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

(Contd. on page 7)

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical	and	chemical	pro	perties
			-	

General Information Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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		(Contd. of page 8
· Viscosity:	W. J	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	orpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
7786-34	-7 mev	inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
	• •	of afficials

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

(Contd. on page 11)

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(Contd. of page 10)

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	UN1993
· UN proper shipping name · ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE
· IMDG	ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthri (ISO)), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
· ADR, IMDG	
· Class	3 Flammable liquids
· Class	3 Flammable liquids
· Packing group · ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometall compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
S	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

*	xtremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N -methylcarbamate
96740-32-8	parathion -methyl (ISO)-d6
203645-53-8	dichlorvos-d6 (ISO)
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)

(Contd. on page 13)

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G : 212	· · · · · · · · · · · · · · · · · · ·	d. of page
	(Specific toxic chemical listings):	
	acetonitrile	
-	formic acid	
67-56-1		
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
15	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
35554-44-0	imazalil (ISO)	
1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
TSCA (Toxio	Substances Control Act):	
75-05-	8 acetonitrile	ACTIV
64-18-	6 formic acid	ACTIV
67-56-	I methanol	ACTIV
51-03-	6 Piperonylbutoxide	ACTIV
	5 dimethoate (ISO)	ACTIV
	7 dichlorvos (ISO)	ACTIV
	2 carbaryl (ISO)	ACTIV
	8 quintozene (ISO)	ACTIV
	3 aldicarb (ISO)	ACTIV
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(0, 11, 6
133-06-2	captan (ISO)	(Contd. of page ACTIV)
	diazinon (ISO)	ACTIV
1563-66-2	carbofuran (ISO)	ACTIV
163165-75-1		ACTIV
203645-53-8	dichlorvos-d6 (ISO)	ACTIV
	carbaryl-d7 (ISO)	ACTIV
	dimethoate-d6 (ISO)	ACTIV
	Piperonylbutoxide-d9	ACTIV
1330190-00-5		ACTIV
	quintozene-13C6 (ISO)	ACTIV
· Hazardous Air	e Pollutants	L
	acetonitrile	
	methanol	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
	propoxur (ISO)	
	captan (ISO)	
	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
1330190-00-5		
	quintozene-13C6 (ISO)	
Proposition 65		
· Chemicals kno	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
114-26-1	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
362049-56-7		
362049-56-7	Ochratoxin A-d5	

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
~		
	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males:	
	carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	own to cause developmental toxicity:	
	methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1	Atrazine-d5	
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
ı	1.1 1.10	
	myclobutanil-d9	
	•	
Carcinogenic	categories	
Carcinogenic EPA (Enviror	•	CBD
Carcinogenic EPA (Environ 75-05-8	categories nmental Protection Agency) acetonitrile	
Carcinogenic EPA (Environ 75-05-8 62-73-7	categories mmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 56-72-4 62-73-7	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 56-72-4 62-73-7	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-6 300-76-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO) naled (ISO) diazinon (ISO)	D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresh 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5 1563-66-2	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C

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		(Contd. of page 1
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	<u> </u>
133-06-2 capt	an (ISO)	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2



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1 Identification

· Product identifier

· Trade name: ONE Pesticide420 TM Calibrator 4

· Product number: COP-Cal-04

· Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

02 GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling: acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous co	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
71751-41-2	dimethylcyclopropanecarboxylate abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	3 ppm
•		(Contd. on page 4)

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67-56-1	methanol	(Contd. of pa 530 ppm
	Piperonylbutoxide	6.5 mg/m^3
	coumaphos (ISO)	0.27 mg/m
	dimethoate (ISO)	2.7 mg/m ³
	dichlorvos (ISO)	1.8 mg/m ³
	carbaryl (ISO)	1.5 mg/m ³
	quintozene (ISO)	1.5 mg/m ³
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	15 mg/m ³
121-75-5	malathion (ISO)	15 mg/m³
	captan (ISO)	15 mg/m ³
298-00-0	parathion -methyl (ISO)	0.11 mg/n
	phosmet (ISO)	0.049 mg/
	carbofuran (ISO)	0.3 mg/m^3
	mercaptodimethur (ISO)	1.4 mg/m^3
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
	mevinphos (ISO)	0.3 mg/m^3
	ethoprophos (ISO)	0.14 mg/n
16752-77-5		0.91 mg/n
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m
	parathion -methyl (ISO)-d6	0.11 mg/n
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m ³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m ³
1189877-72-2	malathion-d6 (ISO)	15 mg/m ³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m ³
· PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 pp
51-03-6	Piperonylbutoxide	72 mg/m
	coumaphos (ISO)	3 mg/m^3
	dimethoate (ISO)	30 mg/m
	dichlorvos (ISO)	20 mg/m
	carbaryl (ISO)	100 mg/r
	quintozene (ISO)	28 mg/m
	propoxur (ISO)	6.7 mg/n
	aldicarb (ISO)	0.3 mg/m
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]] chrysanthemate	

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121-75-5	malathion (ISO)	(Contd. of p
	captan (ISO)	26 mg/s
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/s
	chlorpyrifos (ISO)	15 mg/s
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/s
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
203645-53-8	dichlorvos-d6 (ISO)	20 mg/s
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/s
	Coumaphos-d10 (ISO)	3 mg/m
362049-56-7	carbaryl-d7 (ISO)	100 mg
1189877-72-2	malathion-d6 (ISO)	120 mg
1219794-81-6	dimethoate-d6 (ISO)	30 mg/
<i>PAC-3:</i>		
	acetonitrile	150 ppm
64-18-6	formic acid	250 ppm
67-56-1	methanol	7200* p
51-03-6	Piperonylbutoxide	1,200 m
56-72-4	coumaphos (ISO)	13 mg/m
60-51-5	dimethoate (ISO)	170 mg/
62-73-7	dichlorvos (ISO)	200 mg/
63-25-2	carbaryl (ISO)	600 mg/
82-68-8	quintozene (ISO)	62 mg/m
114-26-1	propoxur (ISO)	40 mg/m
116-06-3	aldicarb (ISO)	1.8 mg/n
121-21-1	$2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate}$	150 mg/
	malathion (ISO)	390 mg/
	captan (ISO)	160 mg/
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5	methomyl	23 mg/m
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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_			(Contd. of page 5)
		parathion -methyl (ISO)-d6	3.5 mg/m^3
ſ	203645-53-8	dichlorvos-d6 (ISO)	200 mg/m^3
Ī	285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m^3
ſ		Coumaphos-d10 (ISO)	13 mg/m³
ſ	362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
ſ		malathion-d6 (ISO)	390 mg/m³
	1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-05	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
<i>62-73</i>	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
	Long-term value: $0.1* mg/m^3$ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%) BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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9 Ph	vsical	and	chemic	al pro	perties

General Information	
Appearance: Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0%	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
		inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

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- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	UN1993
· UN proper shipping name · ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE
· IMDG	ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthri (ISO)), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
· ADR, IMDG	
· Class	3 Flammable liquids
· Class	3 Flammable liquids
· Packing group · ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometall compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 355 (e.	xtremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N -methylcarbamate
96740-32-8	parathion -methyl (ISO)-d6
203645-53-8	dichlorvos-d6 (ISO)
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)

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	·	d. of page
·	Specific toxic chemical listings):	
	acetonitrile	
v	formic acid	
67-56-1 n		
	Piperonylbutoxide	
	limethoate (ISO)	
	lichlorvos (ISO)	
	earbaryl (ISO)	
1.4	uintozene (ISO)	
113-48-4 N	MGK 264	
114-26-1 p	propoxur (ISO)	
116-06-3 a	ıldicarb (ISO)	
121-75-5 n	nalathion (ISO)	
133-06-2 c	captan (ISO)	
298-00-0 p	parathion -methyl (ISO)	
300-76-5 n	naled (ISO)	
333-41-5 a	liazinon (ISO)	
1563-66-2 c	rarbofuran (ISO)	
2032-65-7 n	nercaptodimethur (ISO)	
7786-34-7 n	nevinphos (ISO)	
13194-48-4 e	ethoprophos (ISO)	
	icephate (ISO)	
35554-44-0 i	mazalil (ISO)	
52645-53-1 p	permethrin (ISO)	
60207-90-1 p	propiconazole	
_	ılpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	Bifenthrin (ISO)	
88671-89-0 n		
	parathion -methyl (ISO)-d6	
	Substances Control Act):	
,	acetonitrile	ACTIV
	formic acid	ACTIV
	methanol	ACTIV
	Piperonylbutoxide	ACTIV
	dimethoate (ISO)	
		ACTIV
	dichlorvos (ISO)	ACTIV
	carbaryl (ISO)	ACTIV
	quintozene (ISO)	ACTIV
	aldicarb (ISO)	ACTIV
121-29-9	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	ACTIV

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		(Contd. of page 1
	2 captan (ISO)	ACTIVE
	diazinon (ISO)	ACTIVE
	2 carbofuran (ISO)	ACTIVE
	l Atrazine-d5	ACTIVE
203645-53-8	8 dichlorvos-d6 (ISO)	ACTIVE
362049-56-7	7 carbaryl-d7 (ISO)	ACTIVE
	6 dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	8 Piperonylbutoxide-d9	ACTIVE
1330190-00-3	5 Captan-d6	ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
Hazardous A	ir Pollutants	
75-05-8	8 acetonitrile	
67-56-	l methanol	
62-73-7	dichlorvos (ISO)	
63-25-2	2 carbaryl (ISO)	
82-68-8	8 quintozene (ISO)	
114-26-	l propoxur (ISO)	
133-06-2	2 captan (ISO)	
203645-53-8	8 dichlorvos-d6 (ISO)	
362049-56-7	7 carbaryl-d7 (ISO)	
1330190-00-3	5 Captan-d6	
	quintozene-13C6 (ISO)	
Proposition 6	55	
Chemicals kn	nown to cause cancer:	
62-73-7	7 dichlorvos (ISO)	
	2 carbaryl (ISO)	
114-26-	l propoxur (ISO)	
121-75-3	5 malathion (ISO)	
133-06-2	2 captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-3	5 daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	4 ethoprophos (ISO)	
35554-44-0	mazalil (ISO)	
72490-01-8	8 ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	8 dichlorvos-d6 (ISO)	
	7 carbaryl-d7 (ISO)	
302049-30-7		
302049-30-7	Ochratoxin A-d5	
	Ochratoxin A-d5 2 malathion-d6 (ISO)	

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaals kn	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males: carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	•	
	own to cause developmental toxicity: methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	2.110. py. you (2.1011); u10) (120)	
362049-56-7	carbaryl-d7 (ISO)	
	carbaryl-d7 (ISO) myclobutanil-d9 categories	
Carcinogenic EPA (Environ	myclobutanil-d9 categories nmental Protection Agency)	lana
Carcinogenic EPA (Environ 75-05-8	categories amental Protection Agency) acetonitrile	CBD
Carcinogenic EPA (Environ 75-05-8 62-73-7	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresher 75-05-8	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2

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		(Contd. of page 1:
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A_{-}
287397-86-8	Coumaphos-d10 (ISO)	A
362049-56-7	carbaryl-d7 (ISO)	A
1189877-72-2	malathion-d6 (ISO)	A
1216605-57-0	Naled-d6 (ISO)	A^{2}
1330190-00-5	Captan-d6	A.
	quintozene-13C6 (ISO)	A
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	·
133-06-2 capt	an (ISO)	
	an (180) t y assessment: A Chemical Safety Assessment has not been carried ou	ut.

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2



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1 Identification

· Product identifier

· Trade name: ONE Pesticide420 TM Calibrator 5

· Product number: COP-Cal-05

· Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

S02 GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling: acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous co	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
71751-41-2	dimethylcyclopropanecarboxylate abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	3 ppm
•		(Contd. on page 4)

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67 56 1	methanol	(Contd. of page
	Piperonylbutoxide	530 ppm 6.5 mg/m ³
	coumaphos (ISO)	0.27 mg/m^3
	dimethoate (ISO)	2.7 mg/m^3
	dichlorvos (ISO)	1.8 mg/m^3
	carbaryl (ISO)	1.5 mg/m^3
	quintozene (ISO)	1.5 mg/m^3
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/m
121-21-1	$\label{lem:condition} $$2$-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m^3
732-11-6	phosmet (ISO)	0.049 mg/m
1563-66-2	carbofuran (ISO)	0.3 mg/m³
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
7786-34-7	mevinphos (ISO)	0.3 mg/m^3
13194-48-4	ethoprophos (ISO)	0.14 mg/m^3
16752-77-5	methomyl	0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
	parathion -methyl (ISO)-d6	0.11 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m^3
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
	Coumaphos-d10 (ISO)	0.27 mg/m^3
	carbaryl-d7 (ISO)	1.5 mg/m ³
	malathion-d6 (ISO)	15 mg/m ³
	dimethoate-d6 (ISO)	2.7 mg/m^3
<i>PAC-2:</i>	\ /	
	acetonitrile	50 ppm
	formic acid	25 ppm
	methanol	2,100 ppm
	Piperonylbutoxide	$\frac{2,100 \text{ ppm}}{72 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{72 \text{ mg/m}}{3 \text{ mg/m}^3}$
	dimethoate (ISO)	3 mg/m 30 mg/m^3
	dichlorvos (ISO)	$\frac{30 \text{ mg/m}^3}{20 \text{ mg/m}^3}$
	carbaryl (ISO) quintozene (ISO)	100 mg/m ³
		28 mg/m^3
	propoxur (ISO)	6.7 mg/m^3
	aldicarb (ISO)	0.3 mg/m^3
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl $[1R-[1alpha[S*(Z)],3beta]]$ -chrysanthemate	-25 mg/m^3

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121-75-5	malathion (ISO)	$\frac{\text{(Contd. of pag}}{120 \text{ mg/n}}$
	captan (ISO)	26 mg/m
	parathion -methyl (ISO)	1.2 mg/m
	phosmet (ISO)	0.54 mg/m
	carbofuran (ISO)	0.43 mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/mg/m
	mercaptodimethur (ISO)	15 mg/m
	chlorpyrifos (ISO)	15 mg/m
	mevinphos (ISO)	$\frac{4 \text{ mg/m}^3}{4 \text{ mg/m}^3}$
	ethoprophos (ISO)	1.6 mg/m
16752-77-5		10 mg/m
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/m
	parathion -methyl (ISO)-d6	1.2 mg/m
	dichlorvos-d6 (ISO)	20 mg/m ³
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/m ³
	Coumaphos-d10 (ISO)	3 mg/m^3
	carbaryl-d7 (ISO)	100 mg/n
	malathion-d6 (ISO)	120 mg/n
	dimethoate-d6 (ISO)	30 mg/m
· <i>PAC-3</i> :		1 0
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* ppn
51-03-6	Piperonylbutoxide	1,200 mg/s
	coumaphos (ISO)	13 mg/m ³
	dimethoate (ISO)	170 mg/m ²
	dichlorvos (ISO)	200 mg/m ²
	carbaryl (ISO)	600 mg/m ²
	quintozene (ISO)	62 mg/m ³
	propoxur (ISO)	40 mg/m^3
	aldicarb (ISO)	1.8 mg/m ³
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/m
121-75-5	malathion (ISO)	390 mg/m ²
133-06-2	captan (ISO)	160 mg/m
298-00-0	parathion -methyl (ISO)	3.5 mg/m^3
732-11-6	phosmet (ISO)	77 mg/m³
1563-66-2	carbofuran (ISO)	3.7 mg/m^3
2032-65-7	mercaptodimethur (ISO)	90 mg/m³
2921-88-2	chlorpyrifos (ISO)	44 mg/m^3
7786-34-7	mevinphos (ISO)	40 mg/m³
13194-48-4	ethoprophos (ISO)	9.3 mg/m ³
16752-77-5	methomyl	23 mg/m ³
	1	4.7 mg/m^3

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		(Contd. of page 5)
	parathion -methyl (ISO)-d6	3.5 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
	Coumaphos-d10 (ISO)	13 mg/m³
362049-56-7	carbaryl-d7 (ISO)	600 mg/m³
1189877-72-2	malathion-d6 (ISO)	390 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-05-8 acetonitrile (75-100%)		
PEL	Long-term value: 70 mg/m³, 40 ppm	
REL	Long-term value: 34 mg/m³, 20 ppm	
TLV	Long-term value: 20 ppm Skin, A4	
<i>62-7</i> .	3-7 dichlorvos (ISO) (<0.1%)	
PEL	Long-term value: 1 mg/m³ Skin	
REL	Long-term value: 1 mg/m³ Skin	
TLV	Long-term value: 0.1* mg/m³ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4	

(Contd. on page 7)

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary

7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

Parameter: Cholinesterase activity (nonspecific)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physi	ical and	l chemical	l pro	nerties
/ I leyse	Cut unu	<i>Chemice</i>	PIU	periods

General Information	
Appearance: Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

(Contd. on page 9)

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0%	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 valu	es that are relevant for classification:	
	75-05-8 acetonitrile		
Oral	LD50	2,730 mg/kg (rat)	
	l	1,250 mg/kg (rabbit)	
2921-88	-2 chlo	prpyrifos (ISO)	
Oral	LD50	135 mg/kg (rat)	
Dermal	LD50	202 mg/kg (rat)	
7786-34	-7 mev	inphos (ISO)	
Oral	LD50	4 mg/kg (rat)	
Dermal	LD50	4 mg/kg (rat)	
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)	
Oral	LD50	135 mg/kg (rat)	
Dermal	LD50	202 mg/kg (rat)	
D .	• •	of afficients	

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

(Contd. on page 11)

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Safety Data Sheet acc. to OSHA HCS

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· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthr (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometall compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (e.	xtremely hazardous substances):	
56-72-4	coumaphos (ISO)	
60-51-5	dimethoate (ISO)	
62-73-7	dichlorvos (ISO)	
116-06-3	aldicarb (ISO)	
298-00-0	parathion -methyl (ISO)	
732-11-6	phosmet (ISO)	
1563-66-2	carbofuran (ISO)	
2032-65-7	mercaptodimethur (ISO)	
7786-34-7	mevinphos (ISO)	
13194-48-4	ethoprophos (ISO)	
16752-77-5	methomyl	
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	
96740-32-8	parathion -methyl (ISO)-d6	
203645-53-8	dichlorvos-d6 (ISO)	
287397-86-8	Coumaphos-d10 (ISO)	
1219794-81-6	dimethoate-d6 (ISO)	
	phosmet-d6 (ISO)	
	(Contd. on	page

,uge 13

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	·	d. of page
·	Specific toxic chemical listings):	
	acetonitrile	
v	formic acid	
67-56-1 n		
	Piperonylbutoxide	
	limethoate (ISO)	
	lichlorvos (ISO)	
	earbaryl (ISO)	
1.4	uintozene (ISO)	
113-48-4 N	MGK 264	
114-26-1 p	propoxur (ISO)	
116-06-3 a	ıldicarb (ISO)	
121-75-5 n	nalathion (ISO)	
133-06-2 c	captan (ISO)	
298-00-0 p	parathion -methyl (ISO)	
300-76-5 n	naled (ISO)	
333-41-5 a	liazinon (ISO)	
1563-66-2 c	rarbofuran (ISO)	
2032-65-7 n	nercaptodimethur (ISO)	
7786-34-7 n	nevinphos (ISO)	
13194-48-4 e	ethoprophos (ISO)	
	icephate (ISO)	
35554-44-0 i	mazalil (ISO)	
52645-53-1 p	permethrin (ISO)	
60207-90-1 p	propiconazole	
_	ılpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	Bifenthrin (ISO)	
88671-89-0 n		
	parathion -methyl (ISO)-d6	
	Substances Control Act):	
,	acetonitrile	ACTIV
	formic acid	ACTIV
	methanol	ACTIV
	Piperonylbutoxide	ACTIV
	dimethoate (ISO)	
		ACTIV
	dichlorvos (ISO)	ACTIV
	carbaryl (ISO)	ACTIV
	quintozene (ISO)	ACTIV
	aldicarb (ISO)	ACTIV
121-29-9	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	ACTIV

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		(0
133-06-2	captan (ISO)	(Contd. of page
	diazinon (ISO)	ACTIV
	carbofuran (ISO)	ACTIV
	Atrazine-d5	ACTIV
203645-53-8	dichlorvos-d6 (ISO)	ACTIV
362049-56-7	carbaryl-d7 (ISO)	ACTIV
	dimethoate-d6 (ISO)	ACTIV
	Piperonylbutoxide-d9	ACTIV
1330190-00-5		ACTIV
	quintozene-13C6 (ISO)	ACTIV
· Hazardous Ai	12 / /	I
	acetonitrile	
	methanol	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
	propoxur (ISO)	
	captan (ISO)	
	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
1330190-00-5		
	quintozene-13C6 (ISO)	
Proposition 6:	* /	
-	own to cause cancer:	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	propoxur (ISO)	
	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
362049-56-7		
362049-56-7	Ochratoxin A-d5	
	Ochratoxin A-d5 malathion-d6 (ISO)	

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamicals bu	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males:	
88671-89-0	carbaryl (ISO)	
	myctobutanti carbaryl-d7 (ISO)	
	myclobutanil-d9	
	own to cause developmental toxicity:	
67-56-1		
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
88671-89-0	· ·	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
Carcinogenic	=	
Carcinogenic EPA (Environ	myclobutanil-d9 categories mental Protection Agency)	Lann
Carcinogenic EPA (Environ 75-05-8	categories mental Protection Agency) acetonitrile	
Carcinogenic EPA (Environ 75-05-8	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 6 62-73-7 6 116-06-3 6	categories myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 6 62-73-7 6 116-06-3 6 74115-24-5	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 6 62-73-7 6 116-06-3 6 74115-24-5 6 203645-53-8 6	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile coumaphos (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 a 62-73-7 a 116-06-3 a 74115-24-5 a 203645-53-8 a TLV (Thresho 75-05-8 56-72-4 62-73-7	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) bld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories Imental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	myclobutanil-d9 categories imental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO) diazinon (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5 1563-66-2	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	D C

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		(Contd. of page 1
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	<u> </u>
133-06-2 capt	an (ISO)	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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1 Identification

· Product identifier

· Trade name: ONE Pesticide420 TM Calibrator 6

· Product number: COP-Cal-06

· Application of the substance / the mixture Laboratory chemicals

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	<0.1%
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	3 ppm
•		(Contd. on page 4)

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67-56-1	methanol	(Contd. of pa 530 ppm
	Piperonylbutoxide	6.5 mg/m^3
	coumaphos (ISO)	0.27 mg/m
	dimethoate (ISO)	2.7 mg/m ³
	dichlorvos (ISO)	1.8 mg/m ³
	carbaryl (ISO)	1.5 mg/m ³
	quintozene (ISO)	1.5 mg/m ³
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	15 mg/m ³
121-75-5	malathion (ISO)	15 mg/m³
	captan (ISO)	15 mg/m ³
298-00-0	parathion -methyl (ISO)	0.11 mg/n
	phosmet (ISO)	0.049 mg/
	carbofuran (ISO)	0.3 mg/m^3
	mercaptodimethur (ISO)	1.4 mg/m ³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
	mevinphos (ISO)	0.3 mg/m^3
	ethoprophos (ISO)	0.14 mg/n
16752-77-5		0.91 mg/n
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m
	parathion -methyl (ISO)-d6	0.11 mg/n
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m ³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m ³
1189877-72-2	malathion-d6 (ISO)	15 mg/m ³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m ³
· PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 pp
51-03-6	Piperonylbutoxide	72 mg/m
	coumaphos (ISO)	3 mg/m^3
	dimethoate (ISO)	30 mg/m
	dichlorvos (ISO)	20 mg/m
	carbaryl (ISO)	100 mg/r
	quintozene (ISO)	28 mg/m
	propoxur (ISO)	6.7 mg/n
	aldicarb (ISO)	0.3 mg/m
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]] chrysanthemate	

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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			(Contd. of page 5)
		parathion -methyl (ISO)-d6	3.5 mg/m^3
Ī		dichlorvos-d6 (ISO)	200 mg/m³
	285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
		Coumaphos-d10 (ISO)	13 mg/m³
	362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
		malathion-d6 (ISO)	390 mg/m³
	1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-05	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
<i>62-73</i>	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
	Long-term value: $0.1* mg/m^3$ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

(Contd. on page 7)

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific)

7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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		A A 144 1 A A I	nuanautias
	图 1 1 1 1 1 1 1 图 91	11.41111.WIII	properties
2 _ 0,00000			properties

Liquid
Liquid
According to product specification
Characteristic
Not determined.
N/A
-46 °C (-50.8 °F)
Undetermined.
5 °C (41 °F)
Not applicable.
525 °C (977 °F)
Not determined.
Product is not selfigniting.
Product is not explosive. However, formation of explosive air/vap mixtures are possible.
4.4 Vol %
16 Vol %
97 hPa (72.8 mm Hg)
0.7822 g/cm³ (6.52746 lbs/gal)
Not determined.
Not determined.
Not determined.
Not miscible or difficult to mix.

(Contd. on page 9)

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0%	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 valu	es that are relevant for classification:
75-05-8		<u> </u>
Oral	LD50	2,730 mg/kg (rat)
	l	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
7786-34	-7 mev	inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
D .	• •	of afficients

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

(Contd. on page 11)

(Contd. of page 10)

Safety Data Sheet acc. to OSHA HCS

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthr (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometall compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

`	xtremely hazardous substances):	
56-72-4	coumaphos (ISO)	
60-51-5	dimethoate (ISO)	
62-73-7	dichlorvos (ISO)	
116-06-3	aldicarb (ISO)	
298-00-0	parathion -methyl (ISO)	
732-11-6	phosmet (ISO)	
1563-66-2	carbofuran (ISO)	
2032-65-7	mercaptodimethur (ISO)	
7786-34-7	mevinphos (ISO)	
13194-48-4	ethoprophos (ISO)	
16752-77-5	methomyl	
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N -methylcarbamate	
96740-32-8	parathion -methyl (ISO)-d6	
203645-53-8	dichlorvos-d6 (ISO)	
287397-86-8	Coumaphos-d10 (ISO)	
1219794-81-6	dimethoate-d6 (ISO)	
	phosmet-d6 (ISO)	
	(Contd. or	pag

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G : 212	· · · · · · · · · · · · · · · · · · ·	d. of page
	(Specific toxic chemical listings):	
	acetonitrile	
-	formic acid	
67-56-1		
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
15	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
35554-44-0	imazalil (ISO)	
1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
TSCA (Toxio	Substances Control Act):	
75-05-	8 acetonitrile	ACTIV
64-18-	6 formic acid	ACTIV
67-56-	I methanol	ACTIV
51-03-	6 Piperonylbutoxide	ACTIV
	5 dimethoate (ISO)	ACTIV
	7 dichlorvos (ISO)	ACTIV
	2 carbaryl (ISO)	ACTIV
	8 quintozene (ISO)	ACTIV
	3 aldicarb (ISO)	ACTIV
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(0, 11, 6
133-06-2	captan (ISO)	(Contd. of page ACTIV)
	diazinon (ISO)	ACTIV
1563-66-2	carbofuran (ISO)	ACTIV
163165-75-1		ACTIV
203645-53-8	dichlorvos-d6 (ISO)	ACTIV
	carbaryl-d7 (ISO)	ACTIV
	dimethoate-d6 (ISO)	ACTIV
	Piperonylbutoxide-d9	ACTIV
1330190-00-5		ACTIV
	quintozene-13C6 (ISO)	ACTIV
· Hazardous Air	e Pollutants	L
	acetonitrile	
	methanol	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
	propoxur (ISO)	
	captan (ISO)	
	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
1330190-00-5		
	quintozene-13C6 (ISO)	
Proposition 65		
· Chemicals kno	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
114-26-1	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
362049-56-7		
362049-56-7	Ochratoxin A-d5	

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaals kn	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males: carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	•	
	own to cause developmental toxicity: methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	2.110. py. you (2.1011); u1 0) (12 0)	
362049-56-7	carbaryl-d7 (ISO)	
	carbaryl-d7 (ISO) myclobutanil-d9 categories	
Carcinogenic EPA (Environ	myclobutanil-d9 categories nmental Protection Agency)	lana
Carcinogenic EPA (Environ 75-05-8	categories amental Protection Agency) acetonitrile	CBD
Carcinogenic EPA (Environ 75-05-8 62-73-7	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresher 75-05-8	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2

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		(Contd. of page 1
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	<u> </u>
133-06-2 capt	an (ISO)	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Calibrator 7
- · Product number: COP-Cal-07
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	<0.1%
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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(Contd. of page 2)

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	<i>3 ppm</i>
		(Contd. on page 4)

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67-56-1	methanol	(Contd. of pa 530 ppm
	Piperonylbutoxide	6.5 mg/m^3
	coumaphos (ISO)	0.27 mg/m
	dimethoate (ISO)	2.7 mg/m ³
	dichlorvos (ISO)	1.8 mg/m ³
	carbaryl (ISO)	1.5 mg/m ³
	quintozene (ISO)	1.5 mg/m ³
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	15 mg/m ³
121-75-5	malathion (ISO)	15 mg/m³
	captan (ISO)	15 mg/m ³
298-00-0	parathion -methyl (ISO)	0.11 mg/n
	phosmet (ISO)	0.049 mg/
	carbofuran (ISO)	0.3 mg/m^3
	mercaptodimethur (ISO)	1.4 mg/m^3
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
	mevinphos (ISO)	0.3 mg/m^3
	ethoprophos (ISO)	0.14 mg/n
16752-77-5		0.91 mg/n
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m
	parathion -methyl (ISO)-d6	0.11 mg/n
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m ³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m ³
1189877-72-2	malathion-d6 (ISO)	15 mg/m ³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m ³
· PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 pp
51-03-6	Piperonylbutoxide	72 mg/m
	coumaphos (ISO)	3 mg/m^3
	dimethoate (ISO)	30 mg/m
	dichlorvos (ISO)	20 mg/m
	carbaryl (ISO)	100 mg/r
	quintozene (ISO)	28 mg/m
	propoxur (ISO)	6.7 mg/n
	aldicarb (ISO)	0.3 mg/m
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]] chrysanthemate	

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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			(Contd. of page 5)
		parathion -methyl (ISO)-d6	3.5 mg/m^3
Ī		dichlorvos-d6 (ISO)	200 mg/m^3
		Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
		Coumaphos-d10 (ISO)	13 mg/m³
Γ		carbaryl-d7 (ISO)	600 mg/m^3
	1189877-72-2	malathion-d6 (ISO)	390 mg/m³
	1219794-81-6	dimethoate-d6 (ISO)	170 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-0.	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
62-7.	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
TLV	Long-term value: 0.1* mg/m³ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

General Information Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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		(Contd. of page 8
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

	0 valu	es that are relevant for classification:
75-05-8		<u> </u>
Oral	LD50	2,730 mg/kg (rat)
	l	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
7786-34	-7 mev	inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
D .		of afficients

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

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- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
· ADR, IMDG, IATA	UN1993
UN proper shipping name	
· ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
· IMDG	ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthri
INDU	(ISO)), MARINE POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
· Transport hazard class(es)	
· ADR, IMDG	
· Class	3 Flammable liquids
· Class · Label	3 Flammable liquids 3
· IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· ADR, IMDG, IATA	II
Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids

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	(Contd. of page 1
· EMS Number: · Segregation groups	F-E, <u>S-E</u> Heavy metals and their salts (including their organometalli compounds)
· Stowage Category	B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), . II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (e.	xtremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate
96740-32-8	parathion -methyl (ISO)-d6
203645-53-8	dichlorvos-d6 (ISO)
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)

(Contd. on page 13)

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· Section 313	(Specific toxic chemical listings):	d. of page
	acetonitrile	
	formic acid	
ľ	methanol	
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
114-26-1	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
	imazalil (ISO)	
52645-53-1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropaneca	rboxyla
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
· TSCA (Toxio	c Substances Control Act):	
,	8 acetonitrile	ACTI
64-18-	6 formic acid	ACTI
67-56-	I methanol	ACTI
51-03-	6 Piperonylbutoxide	ACTI
60-51-	5 dimethoate (ISO)	ACTI
	7 dichlorvos (ISO)	ACTI
	2 carbaryl (ISO)	ACTI
	8 quintozene (ISO)	ACTI
	3 aldicarb (ISO)	ACTI
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-	
	methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(Contd. of page 13
	captan (ISO)	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE
163165-75-1	Atrazine-d5	ACTIVE
203645-53-8	dichlorvos-d6 (ISO)	ACTIVE
362049-56-7	carbaryl-d7 (ISO)	ACTIVE
1219794-81-6	dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	Piperonylbutoxide-d9	ACTIVE
1330190-00-5	Captan-d6	ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
Hazardous Air	r Pollutants	
75-05-8	acetonitrile	
	methanol	
62-73-7	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
	propoxur (ISO)	
	captan (ISO)	
	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
1330190-00-5		
	quintozene-13C6 (ISO)	
Proposition 65	5	
Chemicals know	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
114-26-1	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	kresoxim-methyl (ISO)	
	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
	Ochratoxin A-d5	
	malathian de (ISO)	
1189877-72-2 1330190-00-5		

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	fanoryaanh d3	(Contd. of pag
	fenoxycarb-d3 daminozide-d4	
	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males:	
	carbaryl (ISO)	
88671-89-0	•	
	carbaryl-d7 (ISO)	
i	myclobutanil-d9	
	own to cause developmental toxicity:	
67-56-1		
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
88671-89-0	·	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
Carcinogenic	, .	
	categories	
_	=	
EPA (Environ	acategories mental Protection Agency) acetonitrile	CBD
EPA (Environ 75-05-8	amental Protection Agency) acetonitrile	CBD B2
75-05-8 62-73-7	amental Protection Agency) acetonitrile dichlorvos (ISO)	B2
75-05-8 62-73-7 116-06-3	amental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	
75-05-8 62-73-7 116-06-3 74115-24-5	amental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	amental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	amental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8	amental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) bld Limit Value) acetonitrile coumaphos (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 75-05-8 56-72-4 62-73-7	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 75-05-8 56-72-4 62-73-7 63-25-2	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C B2
### TEPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 ### TLV (Threshot 75-05-8 62-73-7 63-25-2 82-68-8	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO)	B2 D C B2
### TEPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 ### TLV (Threshot 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO)	B2 D C B2
### TEPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
### Tensor	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
### TEPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 ### TLV (Threshot 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
### Tensor	mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
### Tension Tension	mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) bld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO) diazinon (ISO)	B2 D C B2
### TEPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5 1563-66-2	mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	D C

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		(Contd. of page 1
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	<u> </u>
133-06-2 capt	an (ISO)	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Calibrator 8
- · Product number: COP-Cal-08
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous con	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
	dimethylcyclopropanecarboxylate	
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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4 First-aid measures

- Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	3 ppm
•		(Contd. on page 4)

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67 56 1	methanol	(Contd. of page
	Piperonylbutoxide	530 ppm 6.5 mg/m ³
	coumaphos (ISO)	0.27 mg/m^3
	dimethoate (ISO)	2.7 mg/m^3
	dichlorvos (ISO)	1.8 mg/m^3
	carbaryl (ISO)	1.5 mg/m^3
	quintozene (ISO)	1.5 mg/m^3
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/m
121-21-1	$\label{lem:condition} $$ 2-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl \ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m^3
732-11-6	phosmet (ISO)	0.049 mg/m
1563-66-2	carbofuran (ISO)	0.3 mg/m³
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m^3
7786-34-7	mevinphos (ISO)	0.3 mg/m^3
13194-48-4	ethoprophos (ISO)	0.14 mg/m^3
16752-77-5	methomyl	0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
	parathion -methyl (ISO)-d6	0.11 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m^3
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
	Coumaphos-d10 (ISO)	0.27 mg/m^3
	carbaryl-d7 (ISO)	1.5 mg/m ³
	malathion-d6 (ISO)	15 mg/m ³
	dimethoate-d6 (ISO)	2.7 mg/m^3
<i>PAC-2:</i>	\ /	
	acetonitrile	50 ppm
	formic acid	25 ppm
	methanol	2,100 ppm
	Piperonylbutoxide	$\frac{2,100 \text{ ppm}}{72 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{72 \text{ mg/m}}{3 \text{ mg/m}^3}$
	dimethoate (ISO)	3 mg/m 30 mg/m^3
	dichlorvos (ISO)	$\frac{30 \text{ mg/m}^3}{20 \text{ mg/m}^3}$
	carbaryl (ISO) quintozene (ISO)	100 mg/m ³
		28 mg/m^3
	propoxur (ISO)	6.7 mg/m^3
	aldicarb (ISO)	0.3 mg/m^3
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [$1R$ -[$1alpha[S*(Z)]$, $3beta$]]-chrysanthemate	-25 mg/m^3

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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			(Contd. of page 5)
		parathion -methyl (ISO)-d6	3.5 mg/m^3
Ī		dichlorvos-d6 (ISO)	200 mg/m³
	285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
		Coumaphos-d10 (ISO)	13 mg/m³
	362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
		malathion-d6 (ISO)	390 mg/m³
	1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-0.	75-05-8 acetonitrile (75-100%)		
PEL	PEL Long-term value: 70 mg/m³, 40 ppm		
REL	Long-term value: 34 mg/m³, 20 ppm		
TLV	Long-term value: 20 ppm Skin, A4		
62-7.	62-73-7 dichlorvos (ISO) (<0.1%)		
PEL	Long-term value: 1 mg/m³ Skin		
REL	Long-term value: 1 mg/m³ Skin		
TLV	Long-term value: 0.1* mg/m³ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4		

(Contd. on page 7)

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV | Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific)

7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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		A A 144 1 A A I	nuanautias
		11.31111.WIII	properties
2 _ 0,00000			properties

General Information Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

(Contd. on page 9)

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		(Contd. of page 8
· Viscosity: Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content: Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
		inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

(Contd. on page 11)

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Safety Data Sheet acc. to OSHA HCS

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILI ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthi
IATA	(ISO)), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class Label	3 Flammable liquids
Labei IATA	
Class Label	3 Flammable liquids
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree) Symbol (fish and tree)

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	(Contd. of page
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometall compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (e.	xtremely hazardous substances):	
56-72-4	coumaphos (ISO)	
60-51-5	dimethoate (ISO)	
62-73-7	dichlorvos (ISO)	
116-06-3	aldicarb (ISO)	
298-00-0	parathion -methyl (ISO)	
732-11-6	phosmet (ISO)	
1563-66-2	carbofuran (ISO)	
2032-65-7	mercaptodimethur (ISO)	
7786-34-7	mevinphos (ISO)	
13194-48-4	ethoprophos (ISO)	
16752-77-5	methomyl	
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	
96740-32-8	parathion -methyl (ISO)-d6	
203645-53-8	dichlorvos-d6 (ISO)	
287397-86-8	Coumaphos-d10 (ISO)	
1219794-81-6	dimethoate-d6 (ISO)	
	phosmet-d6 (ISO)	
	(Contd. on	page

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G : 212	·	d. of page
	(Specific toxic chemical listings):	
	acetonitrile	
-	formic acid	
67-56-1		
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
15	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
35554-44-0	imazalil (ISO)	
1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
TSCA (Toxio	Substances Control Act):	
75-05-	8 acetonitrile	ACTIV
64-18-	6 formic acid	ACTIV
67-56-	I methanol	ACTIV
51-03-	6 Piperonylbutoxide	ACTIV
	5 dimethoate (ISO)	ACTIV
	7 dichlorvos (ISO)	ACTIV
	2 carbaryl (ISO)	ACTIV
	8 quintozene (ISO)	ACTIV
	3 aldicarb (ISO)	ACTIV
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(0, 11, 6
133-06-2	captan (ISO)	(Contd. of page ACTIV)
	diazinon (ISO)	ACTIV
1563-66-2	carbofuran (ISO)	ACTIV
163165-75-1		ACTIV
203645-53-8	dichlorvos-d6 (ISO)	ACTIV
	carbaryl-d7 (ISO)	ACTIV
	dimethoate-d6 (ISO)	ACTIV
	Piperonylbutoxide-d9	ACTIV
1330190-00-5		ACTIV
	quintozene-13C6 (ISO)	ACTIV
· Hazardous Air	e Pollutants	L
	acetonitrile	
	methanol	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
	propoxur (ISO)	
	captan (ISO)	
	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
1330190-00-5		
	quintozene-13C6 (ISO)	
Proposition 65		
· Chemicals kno	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
114-26-1	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
	carbaryl-d7 (ISO)	
362049-56-7		
362049-56-7	Ochratoxin A-d5	

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaals kn	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males: carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	•	
	own to cause developmental toxicity: methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	2.110. py. you (2.1011); u10) (120)	
362049-56-7	carbaryl-d7 (ISO)	
	carbaryl-d7 (ISO) myclobutanil-d9 categories	
Carcinogenic EPA (Environ	myclobutanil-d9 categories nmental Protection Agency)	lana
Carcinogenic EPA (Environ 75-05-8	categories mmental Protection Agency) acetonitrile	CBD
Carcinogenic EPA (Environ 75-05-8 62-73-7	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresher	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2

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		(Contd. of page 1:
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A_{-}
287397-86-8	Coumaphos-d10 (ISO)	A
362049-56-7	carbaryl-d7 (ISO)	A
1189877-72-2	malathion-d6 (ISO)	A
1216605-57-0	Naled-d6 (ISO)	A^{2}
1330190-00-5	Captan-d6	A.
	quintozene-13C6 (ISO)	A
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	·
133-06-2 capt	an (ISO)	
	an (180) t y assessment: A Chemical Safety Assessment has not been carried ou	ut.

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Quality Control 1
- · Product number: COP-OC-01
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

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(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous co	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
71751-41-2	dimethylcyclopropanecarboxylate abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	<i>3 ppm</i>
		(Contd. on page 4)

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67-56-1	methanol	Contd. of page 530 ppm
	Piperonylbutoxide	$\frac{330 \text{ ppm}}{6.5 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{0.3 \text{ mg/m}}{0.27 \text{ mg/m}^3}$
	dimethoate (ISO)	_
	dichlorvos (ISO)	2.7 mg/m^3
		1.8 mg/m^3
	carbaryl (ISO)	1.5 mg/m^3
	quintozene (ISO)	1.5 mg/m ³
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/n
	$\label{lem:condition} 2-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl $[1R-[1alpha[S*(Z)],3beta]]$-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m^3
732-11-6	phosmet (ISO)	0.049 mg/m
1563-66-2	carbofuran (ISO)	0.3 mg/m^3
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m³
7786-34-7	mevinphos (ISO)	0.3 mg/m³
13194-48-4	ethoprophos (ISO)	0.14 mg/m^3
16752-77-5	methomyl	0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
	parathion -methyl (ISO)-d6	0.11 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m^3
	carbaryl-d7 (ISO)	1.5 mg/m ³
	malathion-d6 (ISO)	15 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m^3
PAC-2:		
	acetonitrile	50 ppm
	formic acid	25 ppm
	methanol	2,100 ppm
	Piperonylbutoxide	$\frac{2,100 \text{ ppm}}{72 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{72 \text{ mg/m}}{3 \text{ mg/m}^3}$
	dimethoate (ISO)	3 mg/m $30 mg/m^3$
	dichlorvos (ISO)	$\frac{30 \text{ mg/m}^3}{20 \text{ mg/m}^3}$
	carbaryl (ISO)	100 mg/m
	quintozene (ISO)	28 mg/m^3
	propoxur (ISO)	6.7 mg/m^3
	aldicarb (ISO)	0.3 mg/m^3
121-21-1	2-methyl- 4 -oxo- 3 -(penta- 2 , 4 -dienyl)cyclopent- 2 -enyl [$1R$ -[$1alpha[S*(Z)]$, $3beta$]]-chrysanthemate	-25 mg/m^3

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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		(Contd. of page 5)
	parathion -methyl (ISO)-d6	3.5 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m^3
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	13 mg/m³
362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
1189877-72-2	malathion-d6 (ISO)	390 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

<i>75-05</i>	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
<i>62-7</i> 3	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
	Long-term value: 0.1* mg/m³ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%) BEI 70 % of baseline

DE1 /0 /0 0j baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical	and	chemical	pro	perties
			-	

General Information Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vape mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

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		(Contd. of page 8
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
		inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- Other information: N/A

(Contd. on page 11)

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- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRIL ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenth (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
1 1 1 1 1 1 1 1 1 1	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page 1
· EMS Number: · Segregation groups	F-E, <u>S-E</u> Heavy metals and their salts (including their organometalli compounds)
· Stowage Category	B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG	
· Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), . II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (e.	xtremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate
96740-32-8	parathion -methyl (ISO)-d6
203645-53-8	dichlorvos-d6 (ISO)
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)

(Contd. on page 13)

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· Section 313 (Specific toxic chemical listings):	d. of page
•	acetonitrile	
	ormic acid	
67-56-1 n		
	Piperonylbutoxide	
	limethoate (ISO)	
	lichlorvos (ISO)	
	rarbaryl (ISO)	
	ruintozene (ISO)	
113-48-4 N		
	propoxur (ISO)	
_	Idicarb (ISO)	
	nalathion (ISO)	
	aptan (ISO)	
	parathion -methyl (ISO)	
300-76-5 n		
	liazinon (ISO)	
	arbofuran (ISO)	
	nercaptodimethur (ISO)	
	nevinphos (ISO)	
	thoprophos (ISO)	
	cephate (ISO)	
35554-44-0 in		
	permethrin (ISO)	
60207-90-1 p		
-	ılpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropaneca	rboxylai
	bamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	thyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	Bifenthrin (ISO)	
88671-89-0 m		
	parathion -methyl (ISO)-d6	
	Substances Control Act):	
,	acetonitrile	ACTIV
	formic acid	ACTIV
	methanol	ACTIV
	Piperonylbutoxide	ACTIV
	dimethoate (ISO)	ACTIV
	dichlorvos (ISO)	ACTIV
	carbaryl (ISO)	ACTIV
	quintozene (ISO)	ACTIV
	aldicarb (ISO)	ACTIV
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(Contd. of page
133-06-2	captan (ISO)	ACTIV
333-41-5	diazinon (ISO)	ACTIV
1563-66-2	carbofuran (ISO)	ACTIV
163165-75-1	Atrazine-d5	ACTIV
203645-53-8	dichlorvos-d6 (ISO)	ACTIV
362049-56-7	carbaryl-d7 (ISO)	ACTIV
1219794-81-6	dimethoate-d6 (ISO)	ACTIV
1329834-53-8	Piperonylbutoxide-d9	ACTIV
1330190-00-5	Captan-d6	ACTIV
	quintozene-13C6 (ISO)	ACTIV
· Hazardous Ai	r Pollutants	
75-05-8	acetonitrile	
67-56-1	methanol	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
82-68-8	quintozene (ISO)	
114-26-1	propoxur (ISO)	
133-06-2	captan (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
1330190-00-5	Captan-d6	
-	quintozene-13C6 (ISO)	
· Proposition 6.	5	
· Chemicals kn	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
35554-44-0	imazalil (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
143390-89-0	kresoxim-methyl (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
	Ochratoxin A-d5	
1189877-72-2	malathion-d6 (ISO)	
11070// /2-2		

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaals kn	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males: carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	•	
	own to cause developmental toxicity: methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
362049-56-7		
	carbaryl-d7 (ISO) myclobutanil-d9	
Carcinogenic EPA (Environ	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency)	
Carcinogenic EPA (Enviror 75-05-8	carbaryl-d7 (ISO) myclobutanil-d9 categories nmental Protection Agency) acetonitrile	CBD
Carcinogenic EPA (Environ 75-05-8 62-73-7	carbaryl-d7 (ISO) myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	carbaryl-d7 (ISO) myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	carbaryl-d7 (ISO) myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	carbaryl-d7 (ISO) myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Old Limit Value) acetonitrile coumaphos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	carbaryl-d7 (ISO) myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO)	B2 D C

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		(Contd. of page 15
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	
133-06-2 capi	an (ISO)	
· Chamical safa	ty assessment. A Chemical Safety Assessment has not been carried out	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2



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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Quality Control 2
- · Product number: COP-QC-02
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

S02 GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

 $Harmful\ in\ contact\ with\ skin\ or\ if\ inhaled.$

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous con	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
	dimethylcyclopropanecarboxylate	
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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4 First-aid measures

- · Description of first aid measures
- General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:	
75-05-8 acetonitrile	13 ppm
64-18-6 formic acid	<i>3 ppm</i>
	(Contd. on page 4)

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67-56-1	methanol	Contd. of page 530 ppm
	Piperonylbutoxide	$\frac{330 \text{ ppm}}{6.5 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{0.3 \text{ mg/m}}{0.27 \text{ mg/m}^3}$
	dimethoate (ISO)	_
	dichlorvos (ISO)	2.7 mg/m^3
		1.8 mg/m^3
	carbaryl (ISO)	1.5 mg/m^3
	quintozene (ISO)	1.5 mg/m ³
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/n
	$\label{lem:condition} 2-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl $[1R-[1alpha[S*(Z)],3beta]]$-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m^3
732-11-6	phosmet (ISO)	0.049 mg/m
1563-66-2	carbofuran (ISO)	0.3 mg/m^3
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m³
7786-34-7	mevinphos (ISO)	0.3 mg/m³
13194-48-4	ethoprophos (ISO)	0.14 mg/m^3
16752-77-5	methomyl	0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
	parathion -methyl (ISO)-d6	0.11 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m^3
	carbaryl-d7 (ISO)	1.5 mg/m ³
	malathion-d6 (ISO)	15 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m^3
PAC-2:		
	acetonitrile	50 ppm
	formic acid	25 ppm
	methanol	2,100 ppm
	Piperonylbutoxide	$\frac{2,100 \text{ ppm}}{72 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{72 \text{ mg/m}}{3 \text{ mg/m}^3}$
	dimethoate (ISO)	3 mg/m $30 mg/m^3$
	dichlorvos (ISO)	$\frac{30 \text{ mg/m}^3}{20 \text{ mg/m}^3}$
	carbaryl (ISO)	100 mg/m
	quintozene (ISO)	28 mg/m^3
	propoxur (ISO)	6.7 mg/m^3
	aldicarb (ISO)	0.3 mg/m^3
121-21-1	2-methyl- 4 -oxo- 3 -(penta- 2 , 4 -dienyl)cyclopent- 2 -enyl [$1R$ -[$1alpha[S*(Z)]$, $3beta$]]-chrysanthemate	-25 mg/m^3

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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		(Contd. of page 5)
	parathion -methyl (ISO)-d6	3.5 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
287397-86-8	Coumaphos-d10 (ISO)	13 mg/m³
362049-56-7	carbaryl-d7 (ISO)	600 mg/m³
1189877-72-2	malathion-d6 (ISO)	390 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-03	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
<i>62-73</i>	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
	Long-term value: $0.1* mg/m^3$ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific)

2921-88-2 chlorpyrifos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

7786-34-7 mevinphos (ISO) (<0.1%)

BEI 70 % of baseline

Medium: red blood cells Time: discretionary

Parameter: Cholinesterase activity (nonspecific)

· Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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		A A 144 1 A A I	nuanautias
	图 1 1 1 1 1 1 1 图 91	11.41111.WIII	properties
2 _ 0,00000			properties

· Information on basic physical and c · General Information	hemical properties
· Appearance:	
Form:	Liquid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
· Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vape mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0%	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
		inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

(Contd. on page 10)

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Trade name: ONE Pesticide420 TM Quality Control 2

(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- · Other information: N/A

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- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthr (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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Trade name: ONE Pesticide420 TM Quality Control 2

	(Contd. of page 1
EMS Number:	F-E,S-E
Segregation groups	Heavy metals and their salts (including their organometalli compounds)
Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 355 (e.	xtremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N -methylcarbamate
96740-32-8	parathion -methyl (ISO)-d6
203645-53-8	dichlorvos-d6 (ISO)
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)

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G : 212	· · · · · · · · · · · · · · · · · · ·	d. of page
	(Specific toxic chemical listings):	
	acetonitrile	
-	formic acid	
67-56-1		
	Piperonylbutoxide	
	dimethoate (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
113-48-4		
	propoxur (ISO)	
	aldicarb (ISO)	
1	malathion (ISO)	
	captan (ISO)	
15	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
	acephate (ISO)	
35554-44-0	imazalil (ISO)	
1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
96740-32-8	parathion -methyl (ISO)-d6	
TSCA (Toxio	Substances Control Act):	
75-05-	8 acetonitrile	ACTIV
64-18-	6 formic acid	ACTIV
67-56-	I methanol	ACTIV
51-03-	6 Piperonylbutoxide	ACTIV
	5 dimethoate (ISO)	ACTIV
	7 dichlorvos (ISO)	ACTIV
	2 carbaryl (ISO)	ACTIV
	8 quintozene (ISO)	ACTIV
	3 aldicarb (ISO)	ACTIV
	9 2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	

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		(Contd. of page 13
	captan (ISO)	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE
163165-75-1	Atrazine-d5	ACTIVE
203645-53-8	dichlorvos-d6 (ISO)	ACTIVE
362049-56-7	carbaryl-d7 (ISO)	ACTIVE
1219794-81-6	dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	Piperonylbutoxide-d9	ACTIVE
1330190-00-5		ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
· Hazardous Ai	r Pollutants	·
75-05-8	acetonitrile	
67-56-1	methanol	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
82-68-8	quintozene (ISO)	
114-26-1	propoxur (ISO)	
133-06-2	captan (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
1330190-00-5	Captan-d6	
	quintozene-13C6 (ISO)	
· Proposition 6:	5	
· Chemicals kn	own to cause cancer:	
62-73-7	dichlorvos (ISO)	
	carbaryl (ISO)	
114-26-1	propoxur (ISO)	
121-75-5	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
	Aflatoxin G2	
	ethoprophos (ISO)	
	imazalil (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	kresoxim-methyl (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
	Ochratoxin A-d5	
1189877-72-2	malathion-d6 (ISO)	
1330190-00-5	Captan-d6	
	1	(Contd. on page 1.

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaals kn	own to cause reproductive toxicity for females:	
	carbaryl (ISO)	
163165-75-1		
	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males: carbaryl (ISO)	
	myclobutanil	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	•	
	own to cause developmental toxicity: methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	myclobutanil	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	2.110. py. you (2.1011); u1 0) (12 0)	
362049-56-7	carbaryl-d7 (ISO)	
	carbaryl-d7 (ISO) myclobutanil-d9 categories	
Carcinogenic EPA (Environ	myclobutanil-d9 categories nmental Protection Agency)	lana
Carcinogenic EPA (Environ 75-05-8	categories amental Protection Agency) acetonitrile	CBD
Carcinogenic EPA (Environ 75-05-8 62-73-7	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO)	B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	myclobutanil-d9 categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresher 75-05-8	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	myclobutanil-d9 categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7	categories mental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	myclobutanil-d9 categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C B2
Carcinogenic EPA (Environ 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	categories mmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	categories Immental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
Carcinogenic EPA (Enviror 75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshe 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	categories nmental Protection Agency) acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) parathion -methyl (ISO)	B2 D C B2

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		(Contd. of page 15
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	
133-06-2 capi	an (ISO)	
· Chamical safa	ty assessment. A Chemical Safety Assessment has not been carried out	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2



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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Quality Control 3
- · Product number: COP-QC-03
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

S02 GHS07

GHS09

- · Signal word Danger
- Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

 $Harmful\ in\ contact\ with\ skin\ or\ if\ inhaled.$

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

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(Contd. of page 1)

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 3Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous co	mponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-	<0.1%
71751-41-2	dimethylcyclopropanecarboxylate abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
	Acequinocyl-d25	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%
	fenoxycarb-d3	<0.1%

- US

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4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	<i>3 ppm</i>
		(Contd. on page 4)

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67-56-1	methanol	Contd. of page 530 ppm
	Piperonylbutoxide	$\frac{330 \text{ ppm}}{6.5 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{0.3 \text{ mg/m}}{0.27 \text{ mg/m}^3}$
	dimethoate (ISO)	_
	dichlorvos (ISO)	2.7 mg/m^3
		1.8 mg/m^3
	carbaryl (ISO)	1.5 mg/m^3
	quintozene (ISO)	1.5 mg/m ³
	propoxur (ISO)	1.5 mg/m ³
	aldicarb (ISO)	0.027 mg/n
	$\label{lem:condition} 2-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl $[1R-[1alpha[S*(Z)],3beta]]$-chrysanthemate$	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m³
298-00-0	parathion -methyl (ISO)	0.11 mg/m^3
732-11-6	phosmet (ISO)	0.049 mg/m
1563-66-2	carbofuran (ISO)	0.3 mg/m^3
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m³
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m³
7786-34-7	mevinphos (ISO)	0.3 mg/m³
13194-48-4	ethoprophos (ISO)	0.14 mg/m^3
16752-77-5	methomyl	0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
	parathion -methyl (ISO)-d6	0.11 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m^3
	carbaryl-d7 (ISO)	1.5 mg/m ³
	malathion-d6 (ISO)	15 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m^3
PAC-2:		
	acetonitrile	50 ppm
	formic acid	25 ppm
	methanol	2,100 ppm
	Piperonylbutoxide	$\frac{2,100 \text{ ppm}}{72 \text{ mg/m}^3}$
	coumaphos (ISO)	$\frac{72 \text{ mg/m}}{3 \text{ mg/m}^3}$
	dimethoate (ISO)	3 mg/m $30 mg/m^3$
	dichlorvos (ISO)	$\frac{30 \text{ mg/m}^3}{20 \text{ mg/m}^3}$
	carbaryl (ISO)	100 mg/m
	quintozene (ISO)	28 mg/m^3
	propoxur (ISO)	6.7 mg/m^3
	aldicarb (ISO)	0.3 mg/m^3
121-21-1	2-methyl- 4 -oxo- 3 -(penta- 2 , 4 -dienyl)cyclopent- 2 -enyl [$1R$ -[$1alpha[S*(Z)]$, $3beta$]]-chrysanthemate	-25 mg/m^3

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121-75-5	malathion (ISO)	(Contd. of p 120 mg/
	captan (ISO)	26 mg/n
	parathion -methyl (ISO)	1.2 mg/
	phosmet (ISO)	0.54 mg
	carbofuran (ISO)	0.43 mg
	mercaptodimethur (ISO)	15 mg/n
	chlorpyrifos (ISO)	15 mg/n
	mevinphos (ISO)	4 mg/m
	ethoprophos (ISO)	1.6 mg/
16752-77-5		10 mg/r
	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/
	parathion -methyl (ISO)-d6	1.2 mg/
	dichlorvos-d6 (ISO)	20 mg/r
	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/i
	Coumaphos-d10 (ISO)	3 mg/m
	carbaryl-d7 (ISO)	100 mg
	malathion-d6 (ISO)	120 mg
	dimethoate-d6 (ISO)	30 mg/i
<i>PAC-3:</i>		
	acetonitrile	150 ppm
	formic acid	250 ppm
	methanol	7200* pp
	Piperonylbutoxide	1,200 mg
	coumaphos (ISO)	13 mg/m
	dimethoate (ISO)	170 mg/r
	dichlorvos (ISO)	200 mg/1
	carbaryl (ISO)	600 mg/i
	quintozene (ISO)	62 mg/m
	propoxur (ISO)	40 mg/m
	aldicarb (ISO)	1.8 mg/n
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	150 mg/i
121-75-5	malathion (ISO)	390 mg/1
133-06-2	captan (ISO)	160 mg/n
298-00-0	parathion -methyl (ISO)	3.5 mg/n
732-11-6	phosmet (ISO)	77 mg/m
1563-66-2	carbofuran (ISO)	3.7 mg/n
2032-65-7	mercaptodimethur (ISO)	90 mg/m
2921-88-2	chlorpyrifos (ISO)	44 mg/m
7786-34-7	mevinphos (ISO)	40 mg/m
13194-48-4	ethoprophos (ISO)	9.3 mg/n
16752-77-5		23 mg/m
22125 22 0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/n

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		(Contd. of page 5)
	parathion -methyl (ISO)-d6	3.5 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m³
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
	Coumaphos-d10 (ISO)	13 mg/m³
	carbaryl-d7 (ISO)	600 mg/m³
1189877-72-2	malathion-d6 (ISO)	390 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-0.	5-8 acetonitrile (75-100%)
PEL	Long-term value: 70 mg/m³, 40 ppm
REL	Long-term value: 34 mg/m³, 20 ppm
TLV	Long-term value: 20 ppm Skin, A4
62-7.	3-7 dichlorvos (ISO) (<0.1%)
PEL	Long-term value: 1 mg/m³ Skin
REL	Long-term value: 1 mg/m³ Skin
TLV	Long-term value: 0.1* mg/m³ Skin; DSEN;BEI-C;* inh. fraction + vapor, A4

(Contd. on page 7)

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(Contd. of page 6) 2921-88-2 chlorpyrifos (ISO) (<0.1%) REL | Short-term value: 0.6 mg/m³ Long-term value: 0.2 mg/m³ TLV Long-term value: 0.1* mg/m³ Skin; BEI-C; *as inh. fraction and vapor, A4 7786-34-7 mevinphos (ISO) (<0.1%) PEL Long-term value: 0.1 mg/m³ REL | Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm Skin TLV Long-term value: 0.01* mg/m³ Skin; BEI-C; as inh. fraction and vapor, A4 Ingredients with biological limit values: 62-73-7 dichlorvos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 2921-88-2 chlorpyrifos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells Time: discretionary Parameter: Cholinesterase activity (nonspecific) 7786-34-7 mevinphos (ISO) (<0.1%) BEI 70 % of baseline Medium: red blood cells

- · Exposure controls
- · Personal protective equipment:

Time: discretionary

· General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Parameter: Cholinesterase activity (nonspecific)

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (Contd. on page 8)

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· Material of gloves

(Contd. of page 7)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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Information on basic physical and c	hemical properties
General Information Appearance:	
Appeurance: Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.

(Contd. on page 9)

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0%	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	0 value	es that are relevant for classification:
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	prpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
		inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)
285138-	81-0 C	hlorpyrifos (Diethyl-d10) (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

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(Contd. of page 9) · Carcinogenic categories · IARC (International Agency for Research on Cancer) 51-03-6 Piperonylbutoxide 62-73-7 dichlorvos (ISO) 2B 63-25-2 carbaryl (ISO) 3 82-68-8 quintozene (ISO) 3 116-06-3 aldicarb (ISO) 3 121-75-5 malathion (ISO) 2A133-06-2 captan (ISO) 3 3 298-00-0 parathion -methyl (ISO) Ochratoxin A 2B 333-41-5 diazinon (ISO) 2A52645-53-1 permethrin (ISO) 3 96740-32-8 parathion -methyl (ISO)-d6 3 163165-75-1 Atrazine-d5 3 203645-53-8 dichlorvos-d6 (ISO) 2B 362049-56-7 carbaryl-d7 (ISO) 3 2B Ochratoxin A-d5 1189877-72-2 malathion-d6 (ISO) 2A1329834-53-8 Piperonylbutoxide-d9 3 1330190-00-5 Captan-d6 3 1794760-19-2 permethrin-d5 (ISO) 3 quintozene-13C6 (ISO) 3 · NTP (National Toxicology Program) Ochratoxin A R Aflatoxin B1 K Aflatoxin G1 K Aflatoxin B2 K Aflatoxin G2 \overline{K} Ochratoxin A-d5 R OSHA-Ca (Occupational Safety & Health Administration)

12 Ecological information

None of the ingredients is listed.

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- Other information: N/A

(Contd. on page 11)

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- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthr (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids
Label	3
IATA	
Class	3 Flammable liquids
Label	3
Packing group	
ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)

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	(Contd. of page 1
EMS Number:	F-E,S-E
· Segregation groups	Heavy metals and their salts (including their organometalli compounds)
· Stowage Category	B
Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
· Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), .
-	II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

Section 355 (e.	xtremely hazardous substances):	
56-72-4	coumaphos (ISO)	
60-51-5	dimethoate (ISO)	
62-73-7	dichlorvos (ISO)	
116-06-3	aldicarb (ISO)	
298-00-0	parathion -methyl (ISO)	
732-11-6	phosmet (ISO)	
1563-66-2	carbofuran (ISO)	
2032-65-7	mercaptodimethur (ISO)	
7786-34-7	mevinphos (ISO)	
13194-48-4	ethoprophos (ISO)	
16752-77-5	methomyl	
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	
96740-32-8	parathion -methyl (ISO)-d6	
203645-53-8	dichlorvos-d6 (ISO)	
287397-86-8	Coumaphos-d10 (ISO)	
1219794-81-6	dimethoate-d6 (ISO)	
	phosmet-d6 (ISO)	
	(Contd. on	page

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	·	d. of page
·	Specific toxic chemical listings):	
	acetonitrile	
v	formic acid	
67-56-1 n		
	Piperonylbutoxide	
	limethoate (ISO)	
	lichlorvos (ISO)	
	earbaryl (ISO)	
1.4	uintozene (ISO)	
113-48-4 N	MGK 264	
114-26-1 p	propoxur (ISO)	
116-06-3 a	ıldicarb (ISO)	
121-75-5 n	nalathion (ISO)	
133-06-2 c	captan (ISO)	
298-00-0 p	parathion -methyl (ISO)	
300-76-5 n	naled (ISO)	
333-41-5 a	liazinon (ISO)	
1563-66-2 c	rarbofuran (ISO)	
2032-65-7 n	nercaptodimethur (ISO)	
7786-34-7 n	nevinphos (ISO)	
13194-48-4 e	ethoprophos (ISO)	
	icephate (ISO)	
35554-44-0 i	mazalil (ISO)	
52645-53-1 p	permethrin (ISO)	
60207-90-1 p	propiconazole	
_	ılpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecai	rboxylai
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	Bifenthrin (ISO)	
88671-89-0 n		
	parathion -methyl (ISO)-d6	
	Substances Control Act):	
,	acetonitrile	ACTIV
	formic acid	ACTIV
	methanol	ACTIV
	Piperonylbutoxide	ACTIV
	dimethoate (ISO)	
		ACTIV
	dichlorvos (ISO)	ACTIV
	carbaryl (ISO)	ACTIV
	quintozene (ISO)	ACTIV
	aldicarb (ISO)	ACTIV
121-29-9	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	ACTIV

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		(Contd. of page 13)
133-06-2	captan (ISO)	ACTIVE
	diazinon (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE
163165-75-1	Atrazine-d5	ACTIVE
203645-53-8	dichlorvos-d6 (ISO)	ACTIVE
362049-56-7	carbaryl-d7 (ISO)	ACTIVE
1219794-81-6	dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	Piperonylbutoxide-d9	ACTIVE
1330190-00-5	Captan-d6	ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
· Hazardous Ai	r Pollutants	<u> </u>
75-05-8	acetonitrile	
67-56-1	methanol	
62-73-7	dichlorvos (ISO)	
63-25-2	carbaryl (ISO)	
82-68-8	quintozene (ISO)	
114-26-1	propoxur (ISO)	
133-06-2	captan (ISO)	
203645-53-8	dichlorvos-d6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
1330190-00-5	Captan-d6	
	quintozene-13C6 (ISO)	
· Proposition 65		
	own to cause cancer:	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	propoxur (ISO)	
	malathion (ISO)	
133-06-2	captan (ISO)	
	Ochratoxin A	
1504045	Aflatoxin G1	
1596-84-5	daminozide	
	Aflatoxin B2	
12104 40 4	Aflatoxin G2	
	ethoprophos (ISO)	
	imazalil (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	kresoxim-methyl (ISO)	
	dichlorvos-d6 (ISO) carbaryl-d7 (ISO)	
302049-30-/	Carbaryi-d/ (ISO) Ochratoxin A-d5	
1100077 72 2	malathion-d6 (ISO)	
1330190-00-5	· · ·	
1330190-00-3	Саріап-ао	(Contd. on page 15)
		(Conta. on page 13)

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	fenoxycarb-d3	(Contd. of pag
	daminozide-d4	
Chamiaala ku		
	own to cause reproductive toxicity for females: carbaryl (ISO)	
163165-75-1		
L	carbaryl-d7 (ISO)	
	own to cause reproductive toxicity for males:	
	carbaryl (ISO)	
88671-89-0	•	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
	own to cause developmental toxicity:	
67-56-1		
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
88671-89-0	•	
163165-75-1		
	Chlorpyrifos (Diethyl-d10) (ISO)	
	carbaryl-d7 (ISO)	
	myclobutanil-d9	
Carcinogenic	categories	
	mental Protection Agency)	
•	amental Protection Agency) acetonitrile	CBD
75-05-8	<u> </u>	CBD B2
75-05-8 62-73-7	acetonitrile	
75-05-8 62-73-7 116-06-3	acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2
75-05-8 62-73-7 116-06-3 74115-24-5	acetonitrile dichlorvos (ISO) aldicarb (ISO)	B2 D
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) bld Limit Value) acetonitrile coumaphos (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) old Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7 63-25-2	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) bld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Ild Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO)	B2 D C
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) bld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Id Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) pld Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Thresho 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) Ild Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO) diazinon (ISO)	B2 D C B2
75-05-8 62-73-7 116-06-3 74115-24-5 203645-53-8 TLV (Threshot 75-05-8 56-72-4 62-73-7 63-25-2 82-68-8 114-26-1 121-75-5 133-06-2 298-00-0 300-76-5 333-41-5	acetonitrile dichlorvos (ISO) aldicarb (ISO) Clofentezine dichlorvos-d6 (ISO) ald Limit Value) acetonitrile coumaphos (ISO) dichlorvos (ISO) carbaryl (ISO) quintozene (ISO) propoxur (ISO) malathion (ISO) captan (ISO) parathion -methyl (ISO) naled (ISO)	D C

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		(Contd. of page 15
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
163165-75-1	Atrazine-d5	A4
203645-53-8	dichlorvos-d6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4
1216605-57-0	Naled-d6 (ISO)	A4
1330190-00-5	Captan-d6	A3
	quintozene-13C6 (ISO)	A4
· NIOSH-Ca (N	ational Institute for Occupational Safety and Health)	
133-06-2 capi	an (ISO)	
· Chamical safa	ty assessment. A Chemical Safety Assessment has not been carried out	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2



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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Stock Calibrator
- · Product number: COP-StockCal
- · Application of the substance / the mixture Laboratory chemicals
- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

02 GHS07

GHS09

- · Signal word Danger
- Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

 $Harmful\ in\ contact\ with\ skin\ or\ if\ inhaled.$

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous co	omponents:	
75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
52645-53-1	permethrin (ISO)	<0.1%
57960-19-7	acequinocyl (ISO)	<0.1%
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	<0.1%
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	<0.1%
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	<0.1%
80844-07-1	Etofenprox (ISO)	<0.1%
82657-04-3	Bifenthrin (ISO)	<0.1%
96489-71-3	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one	<0.1%
120068-37-3	fipronil (ISO)	<0.1%

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: If symptoms persist consult doctor.

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- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

<i>PAC-1:</i>		
75-05-8	acetonitrile	13 ppm
64-18-6	formic acid	3 ррт
67-56-1	methanol	530 ppm
51-03-6	Piperonylbutoxide	6.5 mg/m^3
56-72-4	coumaphos (ISO)	0.27 mg/m^3
60-51-5	dimethoate (ISO)	2.7 mg/m^3
62-73-7	dichlorvos (ISO)	1.8 mg/m³
63-25-2	carbaryl (ISO)	1.5 mg/m ³
82-68-8	quintozene (ISO)	1.5 mg/m ³
114-26-1	propoxur (ISO)	1.5 mg/m ³
116-06-3	aldicarb (ISO)	0.027 mg/m
121-21-1	2-methyl- 4 -oxo- 3 -(penta- 2 , 4 -dienyl)cyclopent- 2 -enyl [$1R$ -[$1alpha[S*(Z)]$, $3beta$]]-chrysanthemate	15 mg/m³
121-75-5	malathion (ISO)	15 mg/m³
133-06-2	captan (ISO)	15 mg/m ³

- US

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		Contd. of page 3)
		0.11 mg/m^3
	÷ ' '	0.049 mg/m^3
		0.3 mg/m^3
	mercaptodimethur (ISO)	1.4 mg/m³
		0.6 mg/m^3
		0.3 mg/m^3
		0.14 mg/m^3
16752-77-5		0.91 mg/m^3
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m^3
• PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 ppm
51-03-6	Piperonylbutoxide	72 mg/m³
56-72-4	coumaphos (ISO)	3 mg/m ³
60-51-5	dimethoate (ISO)	30 mg/m³
62-73-7	dichlorvos (ISO)	20 mg/m³
63-25-2	carbaryl (ISO)	100 mg/m³
82-68-8	quintozene (ISO)	28 mg/m³
114-26-1	propoxur (ISO)	6.7 mg/m^3
116-06-3	aldicarb (ISO)	0.3 mg/m^3
121-21-1	$ 2\text{-}methyl-4\text{-}oxo-3\text{-}(penta-2,4\text{-}dienyl)cyclopent-2\text{-}enyl\ [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate } $	25 mg/m ³
121-75-5	malathion (ISO)	120 mg/m³
133-06-2	captan (ISO)	26 mg/m³
298-00-0	parathion -methyl (ISO)	1.2 mg/m^3
732-11-6	phosmet (ISO)	0.54 mg/m^3
1563-66-2	carbofuran (ISO)	0.43 mg/m^3
2032-65-7	mercaptodimethur (ISO)	15 mg/m³
2921-88-2	chlorpyrifos (ISO)	15 mg/m³
7786-34-7	mevinphos (ISO)	4 mg/m^3
13194-48-4	ethoprophos (ISO)	1.6 mg/m³
16752-77-5	methomyl	10 mg/m³
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/m³
· PAC-3:		
75-05-8	acetonitrile	150 ррт
64-18-6	formic acid	250 ррт
67-56-1	methanol	7200* ppm
51-03-6	Piperonylbutoxide	$1,200 \text{ mg/m}^3$
56-72-4	coumaphos (ISO)	13 mg/m³
	dimethoate (ISO)	170 mg/m³
62-73-7	dichlorvos (ISO)	200 mg/m³
		600 mg/m³
L		Contd. on page 5)

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22 (2.2		(Contd. of pa
	quintozene (ISO)	62 mg/m³
114-26-1	propoxur (ISO)	40 mg/m^3
116-06-3	aldicarb (ISO)	1.8 mg/m^3
121-21-1	$\label{lem:condition} $$2$-methyl-4-oxo-3-(penta-2,4-dienyl) cyclopent-2-enyl $$[1R-[1alpha[S*(Z)],3beta]]-chrysanthemate$$	150 mg/m
121-75-5	malathion (ISO)	390 mg/m
133-06-2	captan (ISO)	160 mg/m
298-00-0	parathion -methyl (ISO)	3.5 mg/m^3
732-11-6	phosmet (ISO)	77 mg/m³
1563-66-2	carbofuran (ISO)	3.7 mg/m^3
2032-65-7	mercaptodimethur (ISO)	90 mg/m³
2921-88-2	chlorpyrifos (ISO)	44 mg/m³
7786-34-7	mevinphos (ISO)	40 mg/m³
13194-48-4	ethoprophos (ISO)	9.3 mg/m ³
16752-77-5	methomyl	23 mg/m³
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/m ³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

•	1
75-05-8 acetonitrile (75-100%)	
PEL Long-term value: 70 mg/m³, 40 ppm	

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Trade name: ONE Pesticide420 TM Stock Calibrator

		(Contd. of p
REL	Long-term value: 34 mg/m³, 20 ppm	· · · · · ·
TLV	Long-term value: 20 ppm	
	Skin, A4	
62- 7	73-7 dichlorvos (ISO) (<0.1%)	
PEL	Long-term value: 1 mg/m³	
	Skin	
REL	Long-term value: 1 mg/m³	
	Skin	
TLV	Long-term value: 0.1* mg/m³	
	Skin; DSEN; BEI-C; * inh. fraction + vapor, A4	
	1-88-2 chlorpyrifos (ISO) (<0.1%)	
REL	Short-term value: 0.6 mg/m³	
	Long-term value: 0.2 mg/m ³	
	Skin	
TLV	Long-term value: 0.1* mg/m³	
770	Skin; BEI-C;*as inh. fraction and vapor, A4	
	6-34-7 mevinphos (ISO) (<0.1%)	
PEL	Long-term value: 0.1 mg/m³ Skin	
DEL		
KŁL	Short-term value: 0.3 mg/m³, 0.03 ppm Long-term value: 0.1 mg/m³, 0.01 ppm	
	Skin	
TI.V	Long-term value: 0.01* mg/m³	
1L)	Skin; BEI-C; as inh. fraction and vapor, A4	
Ingr	redients with biological limit values:	
	73-7 dichlorvos (ISO) (<0.1%)	
	70 % of baseline	
221	Medium: red blood cells	
	Time: discretionary	
	Parameter: Cholinesterase activity (nonspecific)	
2921	1-88-2 chlorpyrifos (ISO) (<0.1%)	
BEI	70 % of baseline	
	Medium: red blood cells	
	Time: discretionary	
	Parameter: Cholinesterase activity (nonspecific)	
	6-34-7 mevinphos (ISO) (<0.1%)	
BEI	70 % of baseline	
	Medium: red blood cells Time: discretionary	
	Parameter: Cholinesterase activity (nonspecific)	
	1 wanter. Chounesteruse activity (nonspecific)	

- · Personal protective equipment:
- General protective and hygienic measures: Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

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· Respiratory protection:

(Contd. of page 6)

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

· Explosion limits:

Lower:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and General Information	cnemicai properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.

4.4 Vol %

(Contd. on page 8)

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		(Contd. of page
Upper:	16 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
· Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.01 %	
Solids content:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:	
75-05-8	aceton	itrile
Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)
2921-88	-2 chlo	orpyrifos (ISO)
Oral	LD50	135 mg/kg (rat)
Dermal	LD50	202 mg/kg (rat)
		inphos (ISO)
Oral	LD50	4 mg/kg (rat)
Dermal	LD50	4 mg/kg (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.

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(Contd. of page 8)

- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant

· Carcinogenic categories

	rnational Agency for Research on Cancer)	3
	Piperonylbutoxide	
	dichlorvos (ISO)	21
63-25-2	carbaryl (ISO)	3
82-68-8	quintozene (ISO)	3
116-06-3	aldicarb (ISO)	3
121-75-5	malathion (ISO)	2.4
133-06-2	captan (ISO)	3
298-00-0	parathion -methyl (ISO)	3
	Ochratoxin A	21
333-41-5	diazinon (ISO)	2.4
52645-53-1	permethrin (ISO)	3
NTP (Natio	nal Toxicology Program)	
Ochratoxin	\overline{A}	F
Aflatoxin B	1	į.
Aflatoxin G	1	, F
Aflatoxin B2	2	, i
Aflatoxin G.	2	, i
ОСИЛ Сал	Occupational Safety & Health Administration)	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- Other information: N/A
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- $\cdot \textit{Other adverse effects} \ \textit{No further relevant information available}.$

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADR, IMDG, IATA	UN1993
UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, ENVIRONMENTALLY HAZARDOUS
IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthri (ISO)), MARINE POLLUTANT
IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids
Label	3
<u>**</u>	
Class	3 Flammable liquids
Label	3
Packing group ADR, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	
	F-E, <u>S-E</u>
Segregation groups	Heavy metals and their salts (including their organometalls compounds)
Stowage Category	B

- US

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	(Contd. of page 1
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· ADR · Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

· Section 355	(extremely hazardous substances):
56-72-4	coumaphos (ISO)
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
116-06-3	aldicarb (ISO)
298-00-0	parathion -methyl (ISO)
732-11-6	phosmet (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
16752-77-5	methomyl
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate
· Section 313	(Specific toxic chemical listings):
75-05-8	acetonitrile
64-18-6	formic acid
67-56-1	methanol
51-03-6	Piperonylbutoxide
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
63-25-2	carbaryl (ISO)
82-68-8	quintozene (ISO)
	(Contd. on page 12)

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		l. of page
	MGK 264	
	propoxur (ISO)	
	aldicarb (ISO)	
	malathion (ISO)	
	captan (ISO)	
	parathion -methyl (ISO)	
	naled (ISO)	
	diazinon (ISO)	
	carbofuran (ISO)	
	mercaptodimethur (ISO)	
	mevinphos (ISO)	
	ethoprophos (ISO)	
30560-19-1	acephate (ISO)	
	imazalil (ISO)	
52645-53-1	permethrin (ISO)	
60207-90-1	propiconazole	
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecar	boxyla
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
82657-04-3	Bifenthrin (ISO)	
88671-89-0	myclobutanil	
· TSCA (Toxi	ic Substances Control Act):	
75-05-8	acetonitrile	ACTIV
64-18-6 j	formic acid	ACTIV
67-56-1	methanol	ACTIV
51-03-6	Piperonylbutoxide	ACTIV
60-51-5	dimethoate (ISO)	ACTIV
62-73-7	dichlorvos (ISO)	ACTIV
63-25-2	carbaryl (ISO)	ACTIV
82-68-8	quintozene (ISO)	ACTIV
116-06-3	aldicarb (ISO)	ACTIV
	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl[1R-[1alpha[S*(Z)](3beta)-3-(3-methoxy-2-methyl-3-oxoprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	ACTIV
133-06-2	captan (ISO)	ACTIV
333-41-5	diazinon (ISO)	ACTIV
1563-66-2	carbofuran (ISO)	ACTIV
· Hazardous	Air Pollutants	<u> </u>
75-05-8 ac		
67-56-1 m		
	ichlorvos (ISO)	
	arbaryl (ISO)	
	uintozene (ISO)	
-	ropoxur (ISO)	
	oponii (190)	

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133-110-7100	ptan (ISO)	(Contd. of page
· Proposition		
-	nown to cause cancer:	
	dichlorvos (ISO)	
	Carbaryl (ISO)	
	propoxur (ISO)	
	malathion (ISO)	
	Captan (ISO)	
133-00-2	Ochratoxin A	
	Aflatoxin G1	
1506_84_5	daminozide	
1370-04-3	Aflatoxin B2	
	Aflatoxin G2	
13194-48-4	ethoprophos (ISO)	
	imazalil (ISO)	
	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate	
	kresoxim-methyl (ISO)	
	nown to cause reproductive toxicity for females:	
63-25-2 car		
	nown to cause reproductive toxicity for males:	
	carbaryl (ISO)	
	myclobutanil	
	nown to cause developmental toxicity:	
	methanol	
	carbaryl (ISO)	
	chlorpyrifos (ISO)	
	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	
88671-89-0	myclobutanil	
· Carcinogeni	c categories	
· EPA (Enviro	onmental Protection Agency)	
75-05-8	acetonitrile	CBD,
62-73-7	dichlorvos (ISO)	B2
116-06-3	aldicarb (ISO)	D
74115-24-5	Clofentezine	C
· TLV (Thresi	hold Limit Value)	
,	acetonitrile	
	coumaphos (ISO)	
	dichlorvos (ISO)	
	carbaryl (ISO)	
	quintozene (ISO)	
82-68-8		
	propoxur (ISO)	

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		(Contd. of page 13)
133-06-2	captan (ISO)	A3
298-00-0	parathion -methyl (ISO)	A4
300-76-5	naled (ISO)	A4
333-41-5	diazinon (ISO)	A4
1563-66-2	carbofuran (ISO)	A4
2921-88-2	chlorpyrifos (ISO)	A4
7786-34-7	mevinphos (ISO)	A4
16752-77-5	methomyl	A4
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
133-06-2 ca	aptan (ISO)	
· Chemical so	afety assessment: A Chemical Safety Assessment has not been carried out	

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

- · Contact:
- · Date of preparation / last revision 09/07/2021 / -
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity - Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2



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1 Identification

- · Product identifier
- · Trade name: ONE Pesticide420 TM Internal Standard
- · Product number: COP-IntStd
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer Inc 549 Albany St Boston, MA 02118

· Information department:

US Technical Support

800-762-4000

· Emergency telephone number:

If inside USA, call CHEMTREC at 1-800-424-9300

If outside USA, call CHEMTREC at 1-703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Eve Irrit. 2A H319 Causes serious eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Additional information: For the wording of the listed H phrases refer to section 16.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms







GHS02

GHS07

GHS09

- · Signal word Danger
- · Hazard-determining components of labeling:

acetonitrile

· Hazard statements

Highly flammable liquid and vapor.

Harmful in contact with skin or if inhaled.

Causes serious eye irritation.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 3 Reactivity = 0

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous con	· Dangerous components:		
75-05-8	acetonitrile	75-100%	
203645-53-8	dichlorvos-d6 (ISO)	<0.1%	
1216605-57-0	Naled-d6 (ISO)	<0.1%	
	Acequinocyl-d25	<0.1%	
1794760-19-2	permethrin-d5 (ISO)	<0.1%	
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%	
1189877-72-2	malathion-d6 (ISO)	<0.1%	
	fenoxycarb-d3	<0.1%	
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<0.1%	
	fipronil-13C2 15N2 (ISO)	<0.1%	

4 First-aid measures

- · Description of first aid measures
- · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately rinse with water.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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(Contd. of page 2)

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

75-05-8	acetonitrile	13 ppm
	formic acid	3 ppm
	methanol	530 ppm
1330190-00-5	Captan-d6	$\frac{15 \text{ mg/m}^3}{}$
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m^3
96740-32-8	parathion -methyl (ISO)-d6	0.11 mg/m
	quintozene-13C6 (ISO)	1.5 mg/m^3
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m^3
1189877-72-2	malathion-d6 (ISO)	15 mg/m^3
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m^3
1329834-53-8	Piperonylbutoxide-d9	6.5 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m^3
	phosmet-d6 (ISO)	0.049 mg/s
PAC-2:		
75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
67-56-1	methanol	2,100 ppi
1330190-00-5	Captan-d6	26 mg/m

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203645-53-8	dichlorvos-d6 (ISO)	$\frac{\text{(Contd. of page}}{20 \text{ mg/m}^3}$
	parathion -methyl (ISO)-d6	1.2 mg/m^3
	quintozene-13C6 (ISO)	$\frac{28 \text{ mg/m}^3}{}$
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/m^3
1189877-72-2	malathion-d6 (ISO)	120 mg/m^3
362049-56-7	carbaryl-d7 (ISO)	100 mg/m^3
1329834-53-8	Piperonylbutoxide-d9	72 mg/m^3
287397-86-8	Coumaphos-d10 (ISO)	3 mg/m^3
1219794-81-6	dimethoate-d6 (ISO)	30 mg/m^3
	phosmet-d6 (ISO)	0.54 mg/m
PAC-3:		·
75-05-8	acetonitrile	150 ppm
64-18-6	formic acid	250 ppm
67-56-1	methanol	7200* ppm
1330190-00-5	Captan-d6	160 mg/m^3
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m^3
96740-32-8	parathion -methyl (ISO)-d6	3.5 mg/m^3
	quintozene-13C6 (ISO)	62 mg/m^3
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m³
1189877-72-2	malathion-d6 (ISO)	390 mg/m^3
362049-56-7	carbaryl-d7 (ISO)	600 mg/m^3
1329834-53-8	Piperonylbutoxide-d9	1,200 mg/m
287397-86-8	Coumaphos-d10 (ISO)	13 mg/m³
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m^3
	phosmet-d6 (ISO)	77 mg/m³

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and containers: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Storage class: 3
- · Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

75-03	75-05-8 acetonitrile (75-100%)		
PEL	Long-term value: 70 mg/m³, 40 ppm		
REL	Long-term value: 34 mg/m³, 20 ppm		
	Long-term value: 20 ppm Skin, A4		

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from food and beverages.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief or low exposure use an approved cartridge filter. In case of intensive or longer exposure use SCBA.

Suitable respiratory protective device recommended.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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Information on basic physical and c	phamical proparties
General Information	nemicui properties
Appearance:	
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	N/A
Change in condition	460G (5000F)
Melting point/Melting range:	-46 °C (-50.8 °F)
Boiling point/Boiling range:	Undetermined.
Flash point:	5 °C (41 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	525 °C (977 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
Explosion limits:	
Lower:	4.4 Vol %
Upper:	16 Vol %
Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)
Density at 20 °C (68 °F):	0.7822 g/cm³ (6.52746 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	e r): Not determined.
Viscosity:	0.00
Dynamic at 20 °C (68 °F):	0.39 mPas
Kinematic:	Not determined.
Solvent content:	0.007
Organic solvents:	0.0 %
VOC content:	0.03 %
Solids content:	0.0 %
Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

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- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · *Incompatible materials:* No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC5	· LD/LC50 values that are relevant for classification:		
75-05-8	75-05-8 acetonitrile		
I .		2,730 mg/kg (rat)	
Dermal	LD50	1,250 mg/kg (rabbit)	
285138-	285138-81-0 Chlorpyrifos (Diethyl-d10) (ISO)		
Oral	LD50	135 mg/kg (rat)	
Dermal	LD50	202 mg/kg (rat)	
1189877	1189877-72-2 malathion-d6 (ISO)		
Oral	LD50	885 mg/kg (rat)	

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

None of the ingredients is listed.

· IARC (Interna	tional Agency for Research on Cancer)	
1330190-00-5	Captan-d6	3
	Ochratoxin A-d5	2B
203645-53-8	dichlorvos-d6 (ISO)	2B
96740-32-8	parathion -methyl (ISO)-d6	3
1794760-19-2	permethrin-d5 (ISO)	3
	quintozene-13C6 (ISO)	3
1189877-72-2	malathion-d6 (ISO)	2A
163165-75-1	Atrazine-d5	3
362049-56-7	carbaryl-d7 (ISO)	3
1329834-53-8	Piperonylbutoxide-d9	3
· NTP (Nationa	l Toxicology Program)	
Ochratoxin A-	d5	R
· OSHA-Ca (Oc	cupational Safety & Health Administration)	•

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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects: N/A
- · Remark: Toxic for fish
- \cdot Other information: N/A
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport informat	ion
-----------------------	-----

· UN-Number · ADR, IMDG, IATA	UN1993
· UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE),
	ENVIRONMENTALLY HAZARDOUS
· IMDG	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Chlorpyrifos
	(Diethyl-d10) (ISO)), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)

- · Transport hazard class(es)
- · ADR, IMDG



ClassLabel3 Flammable liquids3

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	(Contd. of page
IATA	
· Class · Label	3 Flammable liquids 3
Packing group ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant: Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups Stowage Category	Warning: Flammable liquids 33 F-E,S-E Heavy metals and their salts (including their organometall compounds) B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- · Sara

	Suru		
	Section 355 (extremely hazardous substances):		
Ī	203645-53-8	dichlorvos-d6 (ISO)	
Ī	96740-32-8	parathion -methyl (ISO)-d6	
ı	287397-86-8	Coumaphos-d10 (ISO)	
Ī	1219794-81-6	dimethoate-d6 (ISO)	
٠		(Contd. on page 10)	

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1	1 ((((()))	(Contd. of page
	phosmet-d6 (ISO)	
	pecific toxic chemical listings):	
	acetonitrile	
	formic acid	
	methanol	
1330190-00-5	Captan-d6	
	dichlorvos-d6 (ISO)	
1216605-57-0	Naled-d6 (ISO)	
96740-32-8	parathion -methyl (ISO)-d6	
1794760-19-2	permethrin-d5 (ISO)	
	quintozene-13C6 (ISO)	
1189877-72-2	malathion-d6 (ISO)	
	fenoxycarb-d3	
163165-75-1	Atrazine-d5	
	carbaryl-d7 (ISO)	
1329834-53-8	Piperonylbutoxide-d9	
	myclobutanil-d9	
1219794-81-6	dimethoate-d6 (ISO)	
TSCA (Toxic S	ubstances Control Act):	
75-05-8	acetonitrile	ACTIV
64-18-6	formic acid	ACTIV
67-56-1	methanol	ACTIV
1330190-00-5	Captan-d6	ACTIV
203645-53-8	dichlorvos-d6 (ISO)	ACTIV
	quintozene-13C6 (ISO)	ACTIV
163165-75-1	Atrazine-d5	ACTIV
362049-56-7	carbaryl-d7 (ISO)	ACTIV
1329834-53-8	Piperonylbutoxide-d9	ACTIV
1219794-81-6	dimethoate-d6 (ISO)	ACTIV
Hazardous Air	Pollutants	
	acetonitrile	
	methanol	
1330190-00-5	Captan-d6	
	dichlorvos-d6 (ISO)	
	quintozene-13C6 (ISO)	
362049-56-7	carbaryl-d7 (ISO)	
Proposition 65		
_	wn to cause cancer:	
1330190-00-5	Captan-d6	
	Ochratoxin A-d5	
203645-53-8	dichlorvos-d6 (ISO)	
	daminozide-d4	
	aaminoziae-a4	

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		(Contd. of page
	fenoxycarb-d3	
362049-56-7	carbaryl-d7 (ISO)	
Chemicals kn	own to cause reproductive toxicity for females:	
163165-75-1	Atrazine-d5	
362049-56-7	carbaryl-d7 (ISO)	
Chemicals kn	own to cause reproductive toxicity for males:	
362049-56-7	carbaryl-d7 (ISO)	
	myclobutanil-d9	
Chemicals kn	own to cause developmental toxicity:	
67-56-1	methanol	
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	
163165-75-1	Atrazine-d5	
362049-56-7	carbaryl-d7 (ISO)	
	myclobutanil-d9	
Carcinogenic	categories	
EPA (Enviror	nmental Protection Agency)	
75-05-8	acetonitrile	CBD,
203645-53-8	dichlorvos-d6 (ISO)	B2
TLV (Thresho	old Limit Value)	
75-05-8	acetonitrile	
1330190-00-5	Captan-d6	_
203645-53-8	dichlorvos-d6 (ISO)	
1216605-57-0	Naled-d6 (ISO)	
96740-32-8	parathion -methyl (ISO)-d6	_
	quintozene-13C6 (ISO)	2
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	2
1189877-72-2	malathion-d6 (ISO)	-
163165-75-1	Atrazine-d5	2
362049-56-7	carbaryl-d7 (ISO)	-
287397-86-8	Coumaphos-d10 (ISO)	
20/3// 00 0		

16 Other information

The information provided in this Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer, Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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· Contact:

· Date of preparation / last revision 09/07/2021 / -

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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