

**Kit Components**

Product code	Description
<b>QS420-KIT-001</b>	<b>QS-Works™ ONE Pesticide 420™ Reagent Kit</b>

## Components:

QS-CAL-01	Stock Calibrant
QS-ICV-01	ICV Calibrant
QS-IS-01	Internal Standard
QS-LCS-01	Stock Calibrator 10 ppm




## 1 Identification

- **Product identifier**
- **Trade name:** Stock Calibrant
- **Product number:** QS-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 Street  
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**  

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Acute Toxicity - Dermal 4	H312 Harmful in contact with skin.
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Eye Irritation 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 components:**

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:**  
CO<sub>2</sub>, 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
67-56-1	methanol	530 ppm
51-03-6	Piperonylbutoxide	6.5 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	0.27 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	2.7 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	1.8 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	1.5 mg/m <sup>3</sup>
82-68-8	quintozene (ISO)	1.5 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	1.5 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	0.027 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	15 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	15 mg/m <sup>3</sup>
133-06-2	captan (ISO)	15 mg/m <sup>3</sup>

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298-00-0	parathion -methyl (ISO)	0.11 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	0.049 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	0.64 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	0.3 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	0.3 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	0.14 mg/m <sup>3</sup>
16752-77-5	methomyl	0.91 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m <sup>3</sup>

**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/m <sup>3</sup>
56-72-4	coumaphos (ISO)	3 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	30 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	20 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	100 mg/m <sup>3</sup>
82-68-8	quintozene (ISO)	28 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	6.7 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	0.3 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	25 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	120 mg/m <sup>3</sup>
133-06-2	captan (ISO)	26 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	1.2 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	0.54 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	7 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	0.43 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	15 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	15 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	4 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	1.6 mg/m <sup>3</sup>
16752-77-5	methomyl	10 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/m <sup>3</sup>

**PAC-3:**

75-05-8	acetonitrile	150 ppm
64-18-6	formic acid	250 ppm
67-56-1	methanol	7200* ppm
51-03-6	Piperonylbutoxide	1,200 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	13 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	170 mg/m <sup>3</sup>

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62-73-7	dichlorvos (ISO)	200 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	600 mg/m <sup>3</sup>
82-68-8	quintozene (ISO)	62 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	40 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	1.8 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	150 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	390 mg/m <sup>3</sup>
133-06-2	captan (ISO)	160 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	3.5 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	77 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	65 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	3.7 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	90 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	44 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	40 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	9.3 mg/m <sup>3</sup>
16752-77-5	methomyl	23 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/m <sup>3</sup>

## 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.

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

**75-05-8 acetonitrile (75-100%)**PEL Long-term value: 70 mg/m<sup>3</sup>, 40 ppmREL Long-term value: 34 mg/m<sup>3</sup>, 20 ppmTLV Long-term value: 20 ppm  
Skin, A4**62-73-7 dichlorvos (ISO) (<0.1%)**PEL Long-term value: 1 mg/m<sup>3</sup>  
SkinREL Long-term value: 1 mg/m<sup>3</sup>  
SkinTLV Long-term value: 0.1\* mg/m<sup>3</sup>  
Skin; DSEN; BEI-C; \* inh. fraction + vapor, A4**2921-88-2 chlorpyrifos (ISO) (<0.1%)**REL Short-term value: 0.6 mg/m<sup>3</sup>  
Long-term value: 0.2 mg/m<sup>3</sup>  
SkinTLV Long-term value: 0.1\* mg/m<sup>3</sup>  
Skin; BEI-C; \*as inh. fraction and vapor, A4**7786-34-7 mevinphos (ISO) (<0.1%)**PEL Long-term value: 0.1 mg/m<sup>3</sup>  
SkinREL Short-term value: 0.3 mg/m<sup>3</sup>, 0.03 ppm  
Long-term value: 0.1 mg/m<sup>3</sup>, 0.01 ppm  
SkinTLV Long-term value: 0.01\* mg/m<sup>3</sup>  
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.

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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

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** N/A

· **Change in condition**

· <b>Melting point/Melting range:</b>	-46 °C (-50.8 °F)
· <b>Boiling point/Boiling range:</b>	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/vapor mixtures are possible.

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· <b>Explosion limits:</b>	
Lower:	4.4 Vol %
Upper:	16 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b> 97 hPa (72.8 mm Hg)	
· <b>Density at 20 °C (68 °F):</b> 0.7822 g/cm <sup>3</sup> (6.52746 lbs/gal)	
· <b>Relative density</b> Not determined.	
· <b>Vapor density</b> Not determined.	
· <b>Evaporation rate</b> Not determined.	
· <b>Solubility in / Miscibility with Water:</b> Not miscible or difficult to mix.	
· <b>Partition coefficient (n-octanol/water):</b> Not determined.	
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	0.0 %
VOC content:	0.00 %
· <b>Solids content:</b> 100.0 %	
· <b>Other information</b> 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/LC50 values that are relevant for classification:

#### 75-05-8 acetonitrile

Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)

- **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

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Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

51-03-6	Piperonylbutoxide	3
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)	2A
133-06-2	captan (ISO)	3
298-00-0	parathion -methyl (ISO)	3
	Ochratoxin A	2B
333-41-5	diazinon (ISO)	2A
52645-53-1	permethrin (ISO)	3

· **NTP (National Toxicology Program)**

	Ochratoxin A	R
	Aflatoxin B1	K
	Aflatoxin G1	K
	Aflatoxin B2	K
	Aflatoxin G2	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 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.
- **Ecotoxicological effects:** N/A
- **Remark:** Toxic for fish
- **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.

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

## 14 Transport information

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">UN1993</p>
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	<p style="text-align: right;">1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthrin (ISO)), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)</p>
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">   </div> <p style="text-align: right;">3 Flammable liquids</p>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p style="text-align: right;">3</p>
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	<div style="display: flex; align-items: center; gap: 10px;">  </div> <p style="text-align: right;">3 Flammable liquids</p>
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p style="text-align: right;">3</p>
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p style="text-align: right;">II</p>
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	<p style="text-align: right;">Symbol (fish and tree) Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> </ul>	<p style="text-align: right;">Warning: Flammable liquids 33 F-E, S-E Heavy metals and their salts (including their organometallic compounds) B</p>
<ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b></li> </ul>	<p style="text-align: right;">Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> <li>· <b>Quantity limitations</b></li> </ul>	<p style="text-align: right;">On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L</p>

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· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<hr style="border-top: 1px dashed black;"/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), 3, 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)
999-81-5	chlormequat chloride (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)
113-48-4	MGK 264
114-26-1	propoxur (ISO)
116-06-3	aldicarb (ISO)

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121-75-5	malathion (ISO)
133-06-2	captan (ISO)
298-00-0	parathion -methyl (ISO)
300-76-5	naled (ISO)
333-41-5	diazinon (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
30560-19-1	acephate (ISO)
35554-44-0	imazalil (ISO)
40487-42-1	pendimethalin (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-dimethylcyclopropanecarboxylate
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 (Toxic Substances Control Act):**

75-05-8	acetonitrile	ACTIVE
64-18-6	formic acid	ACTIVE
67-56-1	methanol	ACTIVE
51-03-6	Piperonylbutoxide	ACTIVE
60-51-5	dimethoate (ISO)	ACTIVE
62-73-7	dichlorvos (ISO)	ACTIVE
63-25-2	carbaryl (ISO)	ACTIVE
82-68-8	quintozene (ISO)	ACTIVE
116-06-3	aldicarb (ISO)	ACTIVE
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	ACTIVE
133-06-2	captan (ISO)	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE
999-81-5	chlormequat chloride (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE

**· Hazardous Air 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)

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· **Proposition 65**· **Chemicals known 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)
35554-44-0	imazalil (ISO)
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate
143390-89-0	kresoxim-methyl (ISO)

· **Chemicals known to cause reproductive toxicity for females:**

63-25-2	carbaryl (ISO)
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· **Chemicals known to cause reproductive toxicity for males:**

63-25-2	carbaryl (ISO)
88671-89-0	myclobutanil

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol
63-25-2	carbaryl (ISO)
2921-88-2	chlorpyrifos (ISO)
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)
88671-89-0	myclobutanil

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

75-05-8	acetonitrile	CBD, D
62-73-7	dichlorvos (ISO)	B2
116-06-3	aldicarb (ISO)	D
74115-24-5	Clofentezine	C

· **TLV (Threshold Limit Value)**

75-05-8	acetonitrile	A4
56-72-4	coumaphos (ISO)	A4
62-73-7	dichlorvos (ISO)	A4
63-25-2	carbaryl (ISO)	A4
82-68-8	quintozene (ISO)	A4
114-26-1	propoxur (ISO)	A3
121-75-5	malathion (ISO)	A4
133-06-2	captan (ISO)	A3
298-00-0	parathion -methyl (ISO)	A4

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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
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
133-06-2	captan (ISO)	

· **Chemical safety 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** 05/25/2022 / -

· **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

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Dermal 4: Acute toxicity – Category 4

Eye Irritation 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

## 1 Identification

- **Product identifier**
- **Trade name:** ICV Calibrant
- **Product number:** QS-ICV-01
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
PerkinElmer Inc  
549 Albany Street  
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**
- Flammable Liquids 2      H225 Highly flammable liquid and vapor.
- Acute Toxicity - Dermal 4      H312 Harmful in contact with skin.
- Acute Toxicity - Inhalation 4      H332 Harmful if inhaled.
- Eye Irritation 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.

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- **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 components:**

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:**  
CO<sub>2</sub>, 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
67-56-1	methanol	530 ppm
51-03-6	Piperonylbutoxide	6.5 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	0.27 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	2.7 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	1.8 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	1.5 mg/m <sup>3</sup>
82-68-8	quintozene (ISO)	1.5 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	1.5 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	0.027 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	15 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	15 mg/m <sup>3</sup>
133-06-2	captan (ISO)	15 mg/m <sup>3</sup>

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298-00-0	parathion -methyl (ISO)	0.11 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	0.049 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	0.64 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	0.3 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	0.3 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	0.14 mg/m <sup>3</sup>
16752-77-5	methomyl	0.91 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m <sup>3</sup>

**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/m <sup>3</sup>
56-72-4	coumaphos (ISO)	3 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	30 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	20 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	100 mg/m <sup>3</sup>
82-68-8	quintozene (ISO)	28 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	6.7 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	0.3 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	25 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	120 mg/m <sup>3</sup>
133-06-2	captan (ISO)	26 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	1.2 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	0.54 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	7 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	0.43 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	15 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	15 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	4 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	1.6 mg/m <sup>3</sup>
16752-77-5	methomyl	10 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/m <sup>3</sup>

**PAC-3:**

75-05-8	acetonitrile	150 ppm
64-18-6	formic acid	250 ppm
67-56-1	methanol	7200* ppm
51-03-6	Piperonylbutoxide	1,200 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	13 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	170 mg/m <sup>3</sup>

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62-73-7	dichlorvos (ISO)	200 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	600 mg/m <sup>3</sup>
82-68-8	quintozene (ISO)	62 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	40 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	1.8 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	150 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	390 mg/m <sup>3</sup>
133-06-2	captan (ISO)	160 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	3.5 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	77 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	65 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	3.7 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	90 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	44 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	40 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	9.3 mg/m <sup>3</sup>
16752-77-5	methomyl	23 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/m <sup>3</sup>

## 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.

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

**75-05-8 acetonitrile (75-100%)**

PEL Long-term value: 70 mg/m<sup>3</sup>, 40 ppm

REL Long-term value: 34 mg/m<sup>3</sup>, 20 ppm

TLV Long-term value: 20 ppm  
Skin, A4

**62-73-7 dichlorvos (ISO) (<0.1%)**

PEL Long-term value: 1 mg/m<sup>3</sup>  
Skin

REL Long-term value: 1 mg/m<sup>3</sup>  
Skin

TLV Long-term value: 0.1\* mg/m<sup>3</sup>  
Skin; DSEN; BEI-C; \* inh. fraction + vapor, A4

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

REL Short-term value: 0.6 mg/m<sup>3</sup>  
Long-term value: 0.2 mg/m<sup>3</sup>  
Skin

TLV Long-term value: 0.1\* mg/m<sup>3</sup>  
Skin; BEI-C; \*as inh. fraction and vapor, A4

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

PEL Long-term value: 0.1 mg/m<sup>3</sup>  
Skin

REL Short-term value: 0.3 mg/m<sup>3</sup>, 0.03 ppm  
Long-term value: 0.1 mg/m<sup>3</sup>, 0.01 ppm  
Skin

TLV Long-term value: 0.01\* mg/m<sup>3</sup>  
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.

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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

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** N/A

· **Change in condition**

· <b>Melting point/Melting range:</b>	-46 °C (-50.8 °F)
· <b>Boiling point/Boiling range:</b>	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/vapor mixtures are possible.

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Trade name: *ICV Calibrant*

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· <b>Explosion limits:</b>	
Lower:	4.4 Vol %
Upper:	16 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b> 97 hPa (72.8 mm Hg)	
· <b>Density at 20 °C (68 °F):</b> 0.7822 g/cm <sup>3</sup> (6.52746 lbs/gal)	
· <b>Relative density</b> Not determined.	
· <b>Vapor density</b> Not determined.	
· <b>Evaporation rate</b> Not determined.	
· <b>Solubility in / Miscibility with Water:</b> Not miscible or difficult to mix.	
· <b>Partition coefficient (n-octanol/water):</b> Not determined.	
· <b>Viscosity:</b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <b>Solvent content:</b>	
Organic solvents:	0.0 %
VOC content:	0.00 %
· <b>Solids content:</b> 100.0 %	
· <b>Other information</b> 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/LC50 values that are relevant for classification:**

#### 75-05-8 acetonitrile

Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)

- **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

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Trade name: **ICV Calibrant**

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Irritant

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

51-03-6	Piperonylbutoxide	3
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)	2A
133-06-2	captan (ISO)	3
298-00-0	parathion -methyl (ISO)	3
	Ochratoxin A	2B
333-41-5	diazinon (ISO)	2A
52645-53-1	permethrin (ISO)	3

· **NTP (National Toxicology Program)**

	Ochratoxin A	R
	Aflatoxin B1	K
	Aflatoxin G1	K
	Aflatoxin B2	K
	Aflatoxin G2	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 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.
- **Ecotoxicological effects:** N/A
- **Remark:** Toxic for fish
- **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.

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Trade name: ICV Calibrant

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

## 14 Transport information

· <b>UN-Number</b> · <b>ADR, IMDG, IATA</b>	UNI993
· <b>UN proper shipping name</b> · <b>ADR</b> · <b>IMDG</b> · <b>IATA</b>	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthrin (ISO)), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)
· <b>Transport hazard class(es)</b> · <b>ADR, IMDG</b>	
 	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b> · <b>Special marking (ADR):</b>	Symbol (fish and tree) Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b>	Warning: Flammable liquids 33 F-E, S-E Heavy metals and their salts (including their organometallic compounds) B
· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b> · <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

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Trade name: **ICV Calibrant**

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· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<hr style="border-top: 1px dashed black;"/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), 3, 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)
999-81-5	chlormequat chloride (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)
113-48-4	MGK 264
114-26-1	propoxur (ISO)
116-06-3	aldicarb (ISO)

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121-75-5	malathion (ISO)
133-06-2	captan (ISO)
298-00-0	parathion -methyl (ISO)
300-76-5	naled (ISO)
333-41-5	diazinon (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
30560-19-1	acephate (ISO)
35554-44-0	imazalil (ISO)
40487-42-1	pendimethalin (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-dimethylcyclopropanecarboxylate
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 (Toxic Substances Control Act):**

75-05-8	acetonitrile	ACTIVE
64-18-6	formic acid	ACTIVE
67-56-1	methanol	ACTIVE
51-03-6	Piperonylbutoxide	ACTIVE
60-51-5	dimethoate (ISO)	ACTIVE
62-73-7	dichlorvos (ISO)	ACTIVE
63-25-2	carbaryl (ISO)	ACTIVE
82-68-8	quintozene (ISO)	ACTIVE
116-06-3	aldicarb (ISO)	ACTIVE
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	ACTIVE
133-06-2	captan (ISO)	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE
999-81-5	chlormequat chloride (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE

**· Hazardous Air 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)

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· **Proposition 65**· **Chemicals known 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)
35554-44-0	imazalil (ISO)
72490-01-8	ethyl[2-(4-phenoxyphenoxy)ethyl]carbamate
143390-89-0	kresoxim-methyl (ISO)

· **Chemicals known to cause reproductive toxicity for females:**

63-25-2	carbaryl (ISO)
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· **Chemicals known to cause reproductive toxicity for males:**

63-25-2	carbaryl (ISO)
88671-89-0	myclobutanil

· **Chemicals known to cause developmental toxicity:**

67-56-1	methanol
63-25-2	carbaryl (ISO)
2921-88-2	chlorpyrifos (ISO)
71751-41-2	abamectin (combination of avermectin B1a and avermectin B1b) (ISO)
88671-89-0	myclobutanil

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

75-05-8	acetonitrile	CBD, D
62-73-7	dichlorvos (ISO)	B2
116-06-3	aldicarb (ISO)	D
74115-24-5	Clofentezine	C

· **TLV (Threshold Limit Value)**

75-05-8	acetonitrile	A4
56-72-4	coumaphos (ISO)	A4
62-73-7	dichlorvos (ISO)	A4
63-25-2	carbaryl (ISO)	A4
82-68-8	quintozene (ISO)	A4
114-26-1	propoxur (ISO)	A3
121-75-5	malathion (ISO)	A4
133-06-2	captan (ISO)	A3
298-00-0	parathion -methyl (ISO)	A4

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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
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>		
133-06-2	captan (ISO)	

· **Chemical safety 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** 05/25/2022 / -

· **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

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Dermal 4: Acute toxicity – Category 4

Eye Irritation 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




## 1 Identification

- **Product identifier**
- **Trade name:** Internal Standard
- **Product number:** QS-IS-01
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
PerkinElmer Inc  
549 Albany Street  
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**  

Flammable Liquids 2	H225 Highly flammable liquid and vapor.
Acute Toxicity - Dermal 4	H312 Harmful in contact with skin.
Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Eye Irritation 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 components:**

75-05-8	acetonitrile	75-100%
	Acequinocyl-d25	<0.1%
203645-53-8	dichlorvos-d6 (ISO)	<0.1%
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	<0.1%
	fenoxycarb-d3	<0.1%
1216605-57-0	Naled-d6 (ISO)	<0.1%
1794760-19-2	permethrin-d5 (ISO)	<0.1%
1189877-72-2	malathion-d6 (ISO)	<0.1%
	fipronil-13C2 15N2 (ISO)	<0.1%
	2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2H)-one-d13	<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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## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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
1330190-00-5	Captan-d6	15 mg/m <sup>3</sup>
67-56-1	methanol	530 ppm
203645-53-8	dichlorvos-d6 (ISO)	1.8 mg/m <sup>3</sup>
	quintozene-13C6 (ISO)	1.5 mg/m <sup>3</sup>
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	0.6 mg/m <sup>3</sup>
96740-32-8	parathion -methyl (ISO)-d6	0.11 mg/m <sup>3</sup>
287397-86-8	Coumaphos-d10 (ISO)	0.27 mg/m <sup>3</sup>
362049-56-7	carbaryl-d7 (ISO)	1.5 mg/m <sup>3</sup>
1189877-72-2	malathion-d6 (ISO)	15 mg/m <sup>3</sup>
1219794-81-6	dimethoate-d6 (ISO)	2.7 mg/m <sup>3</sup>
1329834-53-8	Piperonylbutoxide-d9	6.5 mg/m <sup>3</sup>
	phosmet-d6 (ISO)	0.049 mg/m <sup>3</sup>

### · PAC-2:

75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
1330190-00-5	Captan-d6	26 mg/m <sup>3</sup>
67-56-1	methanol	2,100 ppm

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203645-53-8	dichlorvos-d6 (ISO)	20 mg/m <sup>3</sup>
	quintozene-13C6 (ISO)	28 mg/m <sup>3</sup>
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	15 mg/m <sup>3</sup>
96740-32-8	parathion -methyl (ISO)-d6	1.2 mg/m <sup>3</sup>
287397-86-8	Coumaphos-d10 (ISO)	3 mg/m <sup>3</sup>
362049-56-7	carbaryl-d7 (ISO)	100 mg/m <sup>3</sup>
1189877-72-2	malathion-d6 (ISO)	120 mg/m <sup>3</sup>
1219794-81-6	dimethoate-d6 (ISO)	30 mg/m <sup>3</sup>
1329834-53-8	Piperonylbutoxide-d9	72 mg/m <sup>3</sup>
	phosmet-d6 (ISO)	0.54 mg/m <sup>3</sup>

**· PAC-3:**

75-05-8	acetonitrile	150 ppm
64-18-6	formic acid	250 ppm
1330190-00-5	Captan-d6	160 mg/m <sup>3</sup>
67-56-1	methanol	7200* ppm
203645-53-8	dichlorvos-d6 (ISO)	200 mg/m <sup>3</sup>
	quintozene-13C6 (ISO)	62 mg/m <sup>3</sup>
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	44 mg/m <sup>3</sup>
96740-32-8	parathion -methyl (ISO)-d6	3.5 mg/m <sup>3</sup>
287397-86-8	Coumaphos-d10 (ISO)	13 mg/m <sup>3</sup>
362049-56-7	carbaryl-d7 (ISO)	600 mg/m <sup>3</sup>
1189877-72-2	malathion-d6 (ISO)	390 mg/m <sup>3</sup>
1219794-81-6	dimethoate-d6 (ISO)	170 mg/m <sup>3</sup>
1329834-53-8	Piperonylbutoxide-d9	1,200 mg/m <sup>3</sup>
	phosmet-d6 (ISO)	77 mg/m <sup>3</sup>

## 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.

### 75-05-8 acetonitrile (75-100%)

PEL Long-term value: 70 mg/m<sup>3</sup>, 40 ppm

REL Long-term value: 34 mg/m<sup>3</sup>, 20 ppm

TLV 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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## 9 Physical and chemical properties

· <i>Information on basic physical and chemical properties</i>	
· <i>General Information</i>	
· <i>Appearance:</i>	
<i>Form:</i>	Liquid
<i>Color:</i>	According to product specification
· <i>Odor:</i>	Characteristic
· <i>Odor threshold:</i>	Not determined.
· <i>pH-value:</i>	N/A
· <i>Change in condition</i>	
<i>Melting point/Melting range:</i>	-46 °C (-50.8 °F)
<i>Boiling point/Boiling range:</i>	Undetermined.
· <i>Flash point:</i>	5 °C (41 °F)
· <i>Flammability (solid, gaseous):</i>	Not applicable.
· <i>Ignition temperature:</i>	525 °C (977 °F)
· <i>Decomposition temperature:</i>	Not determined.
· <i>Auto igniting:</i>	Product is not selfigniting.
· <i>Danger of explosion:</i>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <i>Explosion limits:</i>	
<i>Lower:</i>	4.4 Vol %
<i>Upper:</i>	16 Vol %
· <i>Vapor pressure at 20 °C (68 °F):</i>	97 hPa (72.8 mm Hg)
· <i>Density at 20 °C (68 °F):</i>	0.7822 g/cm <sup>3</sup> (6.52746 lbs/gal)
· <i>Relative density</i>	Not determined.
· <i>Vapor density</i>	Not determined.
· <i>Evaporation rate</i>	Not determined.
· <i>Solubility in / Miscibility with</i>	
<i>Water:</i>	Not miscible or difficult to mix.
· <i>Partition coefficient (n-octanol/water):</i> Not determined.	
· <i>Viscosity:</i>	
<i>Dynamic at 20 °C (68 °F):</i>	0.39 mPas
<i>Kinematic:</i>	Not determined.
· <i>Solvent content:</i>	
<i>Organic solvents:</i>	0.0 %
<i>VOC content:</i>	0.00 %
<i>Solids content:</i>	0.0 %
· <i>Other information</i>	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/LC50 values that are relevant for classification:

##### 75-05-8 acetonitrile

Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)

#### · 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

#### · IARC (International Agency for Research on Cancer)

1330190-00-5	Captan-d6	3
203645-53-8	dichlorvos-d6 (ISO)	2B
	quintozene-13C6 (ISO)	3
96740-32-8	parathion -methyl (ISO)-d6	3
1794760-19-2	permethrin-d5 (ISO)	3
163165-75-1	Atrazine-d5	3
362049-56-7	carbaryl-d7 (ISO)	3
	Ochratoxin A-d5	2B
1189877-72-2	malathion-d6 (ISO)	2A
1329834-53-8	Piperonylbutoxide-d9	3

#### · NTP (National Toxicology Program)

Ochratoxin A-d5

R

#### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## 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.

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- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:** N/A
- **Remark:** Toxic for fish
- **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 information

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">UN1993</p>   |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul> | <p style="text-align: center;">1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), ENVIRONMENTALLY HAZARDOUS</p> <p style="text-align: center;">FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Chlorpyrifos (Diethyl-d10) (ISO)), MARINE POLLUTANT</p> <p style="text-align: center;">FLAMMABLE LIQUID, N.O.S. (ACETONITRILE)</p>                                  |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG</b></li> </ul>                                      | <div style="display: flex; align-items: center; justify-content: center;">   </div> <p style="text-align: center;">3 Flammable liquids</p> <p style="text-align: center;">3</p> |
| <ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>  | <div style="display: flex; align-items: center; justify-content: center;">  </div> <p style="text-align: center;">3 Flammable liquids</p> <p style="text-align: center;">3</p>   |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | <p style="text-align: center;">II</p>   |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>                                  | <p style="text-align: center;">Symbol (fish and tree)</p>   |

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· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	33
· <b>EMS Number:</b>	F-E,S-E
· <b>Segregation groups</b>	Heavy metals and their salts (including their organometallic compounds)
· <b>Stowage Category</b>	B
· <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), 3, II, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>	
203645-53-8	dichlorvos-d6 (ISO)
96740-32-8	parathion -methyl (ISO)-d6
287397-86-8	Coumaphos-d10 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
	phosmet-d6 (ISO)
· <b>Section 313 (Specific toxic chemical listings):</b>	
75-05-8	acetonitrile
64-18-6	formic acid
1330190-00-5	Captan-d6
67-56-1	methanol
203645-53-8	dichlorvos-d6 (ISO)
	quintozene-13C6 (ISO)
	fenoxy carb-d3
96740-32-8	parathion -methyl (ISO)-d6
1216605-57-0	Naled-d6 (ISO)

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1794760-19-2	permethrin-d5 (ISO)
163165-75-1	Atrazine-d5
362049-56-7	carbaryl-d7 (ISO)
1189877-72-2	malathion-d6 (ISO)
1219794-81-6	dimethoate-d6 (ISO)
1329834-53-8	Piperonylbutoxide-d9
	myclobutanil-d9

**· TSCA (Toxic Substances Control Act):**

75-05-8	acetonitrile	ACTIVE
64-18-6	formic acid	ACTIVE
1330190-00-5	Captan-d6	ACTIVE
67-56-1	methanol	ACTIVE
203645-53-8	dichlorvos-d6 (ISO)	ACTIVE
	quintozene-13C6 (ISO)	ACTIVE
163165-75-1	Atrazine-d5	ACTIVE
362049-56-7	carbaryl-d7 (ISO)	ACTIVE
1219794-81-6	dimethoate-d6 (ISO)	ACTIVE
1329834-53-8	Piperonylbutoxide-d9	ACTIVE

**· Hazardous Air Pollutants**

75-05-8	acetonitrile
1330190-00-5	Captan-d6
67-56-1	methanol
203645-53-8	dichlorvos-d6 (ISO)
	quintozene-13C6 (ISO)
362049-56-7	carbaryl-d7 (ISO)

**· Proposition 65**

**· Chemicals known to cause cancer:**

1330190-00-5	Captan-d6
203645-53-8	dichlorvos-d6 (ISO)
	fenoxycarb-d3
	daminozide-d4
362049-56-7	carbaryl-d7 (ISO)
	Ochratoxin A-d5
1189877-72-2	malathion-d6 (ISO)

**· Chemicals known to cause reproductive toxicity for females:**

163165-75-1	Atrazine-d5
362049-56-7	carbaryl-d7 (ISO)

**· Chemicals known to cause reproductive toxicity for males:**

362049-56-7	carbaryl-d7 (ISO)
	myclobutanil-d9

**· Chemicals known to cause developmental toxicity:**

67-56-1	methanol
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)

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163165-75-1	Atrazine-d5
362049-56-7	carbaryl-d7 (ISO)
	myclobutanil-d9

**· Carcinogenic categories**
**· EPA (Environmental Protection Agency)**

75-05-8	acetonitrile	CBD, D
203645-53-8	dichlorvos-d6 (ISO)	B2

**· TLV (Threshold Limit Value)**

75-05-8	acetonitrile	A4
1330190-00-5	Captan-d6	A3
203645-53-8	dichlorvos-d6 (ISO)	A4
	quintozene-13C6 (ISO)	A4
285138-81-0	Chlorpyrifos (Diethyl-d10) (ISO)	A4
96740-32-8	parathion -methyl (ISO)-d6	A4
1216605-57-0	Naled-d6 (ISO)	A4
163165-75-1	Atrazine-d5	A4
287397-86-8	Coumaphos-d10 (ISO)	A4
362049-56-7	carbaryl-d7 (ISO)	A4
1189877-72-2	malathion-d6 (ISO)	A4

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **Chemical safety 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** 05/25/2022 / -

**· 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

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*TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Flammable Liquids 2: Flammable liquids – Category 2**Acute Toxicity - Dermal 4: Acute toxicity – Category 4**Eye Irritation 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*

US

## 1 Identification

- **Product identifier**
- **Trade name:** Stock Calibrator 10 ppm
- **Product number:** QS-LCS-01
- **Application of the substance / the mixture** *Laboratory chemicals*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*PerkinElmer Inc  
549 Albany Street  
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**  
*Flammable Liquids 2      H225 Highly flammable liquid and vapor.  
Acute Toxicity - Dermal 4      H312 Harmful in contact with skin.  
Acute Toxicity - Inhalation 4      H332 Harmful if inhaled.  
Eye Irritation 2A      H319 Causes serious eye irritation.  
Aquatic Acute 1      H400 Very toxic to aquatic life.  
Aquatic Chronic 1      H410 Very 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.  
Very toxic to aquatic life.  
Very 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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**Trade name: Stock Calibrator 10 ppm**

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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 components:**

75-05-8	acetonitrile	75-100%
62-73-7	dichlorvos (ISO)	<0.1%
63-25-2	carbaryl (ISO)	<0.1%
121-75-5	malathion (ISO)	<0.1%
298-00-0	parathion -methyl (ISO)	<0.1%
300-76-5	naled (ISO)	<0.1%
732-11-6	phosmet (ISO)	<0.1%
2921-88-2	chlorpyrifos (ISO)	<0.1%
7786-34-7	mevinphos (ISO)	<0.1%
16752-77-5	methomyl	<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%
111988-49-9	thiacloprid	<0.1%
118134-30-8	spiroxamine	<0.1%
120068-37-3	fipronil (ISO)	<0.1%
122453-73-0	chlorfenapyr	<0.1%
153233-91-1	etoxazol	<0.1%

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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:**

CO<sub>2</sub>, 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

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**Trade name: Stock Calibrator 10 ppm**

		(Contd. of page 3)
51-03-6	Piperonylbutoxide	6.5 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	0.27 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	2.7 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	1.8 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	1.5 mg/m <sup>3</sup>
67-56-1	methanol	530 ppm
82-68-8	quintozene (ISO)	1.5 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	1.5 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	0.027 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	15 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	15 mg/m <sup>3</sup>
133-06-2	captan (ISO)	15 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	0.11 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	0.049 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	0.64 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	0.3 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	1.4 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	0.6 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	0.3 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	0.14 mg/m <sup>3</sup>
16752-77-5	methomyl	0.91 mg/m <sup>3</sup>
23135-22-0	N,N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	0.15 mg/m <sup>3</sup>

**PAC-2:**

75-05-8	acetonitrile	50 ppm
64-18-6	formic acid	25 ppm
51-03-6	Piperonylbutoxide	72 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	3 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	30 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	20 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	100 mg/m <sup>3</sup>
67-56-1	methanol	2,100 ppm
82-68-8	quintozene (ISO)	28 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	6.7 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	0.3 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	25 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	120 mg/m <sup>3</sup>
133-06-2	captan (ISO)	26 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	1.2 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	0.54 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	7 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	0.43 mg/m <sup>3</sup>

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2032-65-7	mercaptodimethur (ISO)	15 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	15 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	4 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	1.6 mg/m <sup>3</sup>
16752-77-5	methomyl	10 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	1.7 mg/m <sup>3</sup>
<b>· PAC-3:</b>		
75-05-8	acetonitrile	150 ppm
64-18-6	formic acid	250 ppm
51-03-6	Piperonylbutoxide	1,200 mg/m <sup>3</sup>
56-72-4	coumaphos (ISO)	13 mg/m <sup>3</sup>
60-51-5	dimethoate (ISO)	170 mg/m <sup>3</sup>
62-73-7	dichlorvos (ISO)	200 mg/m <sup>3</sup>
63-25-2	carbaryl (ISO)	600 mg/m <sup>3</sup>
67-56-1	methanol	7200* ppm
82-68-8	quintozene (ISO)	62 mg/m <sup>3</sup>
114-26-1	propoxur (ISO)	40 mg/m <sup>3</sup>
116-06-3	aldicarb (ISO)	1.8 mg/m <sup>3</sup>
121-21-1	2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl [1R-[1alpha[S*(Z)],3beta]]-chrysanthemate	150 mg/m <sup>3</sup>
121-75-5	malathion (ISO)	390 mg/m <sup>3</sup>
133-06-2	captan (ISO)	160 mg/m <sup>3</sup>
298-00-0	parathion -methyl (ISO)	3.5 mg/m <sup>3</sup>
732-11-6	phosmet (ISO)	77 mg/m <sup>3</sup>
999-81-5	chlormequat chloride (ISO)	65 mg/m <sup>3</sup>
1563-66-2	carbofuran (ISO)	3.7 mg/m <sup>3</sup>
2032-65-7	mercaptodimethur (ISO)	90 mg/m <sup>3</sup>
2921-88-2	chlorpyrifos (ISO)	44 mg/m <sup>3</sup>
7786-34-7	mevinphos (ISO)	40 mg/m <sup>3</sup>
13194-48-4	ethoprophos (ISO)	9.3 mg/m <sup>3</sup>
16752-77-5	methomyl	23 mg/m <sup>3</sup>
23135-22-0	N',N'-dimethylcarbamoyl(methylthio)methylenamine N-methylcarbamate	4.7 mg/m <sup>3</sup>

## 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.

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Trade name: Stock Calibrator 10 ppm

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- **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/m <sup>3</sup> , 40 ppm
REL	Long-term value: 34 mg/m <sup>3</sup> , 20 ppm
TLV	Long-term value: 20 ppm
	Skin, A4

### 62-73-7 dichlorvos (ISO) (<0.1%)

PEL	Long-term value: 1 mg/m <sup>3</sup>
	Skin
REL	Long-term value: 1 mg/m <sup>3</sup>
	Skin
TLV	Long-term value: 0.1* mg/m <sup>3</sup>
	Skin; DSEN; BEI-C; * inh. fraction + vapor, A4

### 298-00-0 parathion -methyl (ISO) (<0.1%)

REL	Long-term value: 0.2 mg/m <sup>3</sup>
	Skin
TLV	Long-term value: 0.02* mg/m <sup>3</sup>
	Skin; BEI-C; *as inh. fraction and vapor, A4

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

REL	Short-term value: 0.6 mg/m <sup>3</sup>
	Long-term value: 0.2 mg/m <sup>3</sup>
	Skin
TLV	Long-term value: 0.1* mg/m <sup>3</sup>
	Skin; BEI-C; *as inh. fraction and vapor, A4

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

PEL	Long-term value: 0.1 mg/m <sup>3</sup>
	Skin
REL	Short-term value: 0.3 mg/m <sup>3</sup> , 0.03 ppm
	Long-term value: 0.1 mg/m <sup>3</sup> , 0.01 ppm
	Skin
TLV	Long-term value: 0.01* mg/m <sup>3</sup>
	Skin; BEI-C; as inh. fraction and vapor, A4

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**Trade name: Stock Calibrator 10 ppm**

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**16752-77-5 methomyl (<0.1%)**

REL	Long-term value: 2.5 mg/m <sup>3</sup>
TLV	Long-term value: 0.2* mg/m <sup>3</sup> Skin, BEI-C, *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)
-----	--

**298-00-0 parathion -methyl (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)
-----	--

**16752-77-5 methomyl (<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**

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

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Liquid
<b>Color:</b>	Yellow tint
<b>Odor:</b>	Characteristic
<b>Odor threshold:</b>	Not determined.

- **pH-value:** N/A

- **Change in condition**

<b>Melting point/Melting range:</b>	-46 °C (-50.8 °F)
<b>Boiling point/Boiling range:</b>	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/vapor mixtures are possible.

- **Explosion limits:**

<b>Lower:</b>	4.4 Vol %
<b>Upper:</b>	16 Vol %

- **Vapor pressure at 20 °C (68 °F):** 97 hPa (72.8 mm Hg)

- **Density at 20 °C (68 °F):** 0.7822 g/cm<sup>3</sup> (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/water):** Not determined.

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· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>VOC content:</b>	0.01 %
<b>Solids content:</b>	100.0 %
· <b>Other information</b>	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/LC50 values that are relevant for classification:**

75-05-8 acetonitrile

Oral	LD50	2,730 mg/kg (rat)
Dermal	LD50	1,250 mg/kg (rabbit)

- **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**

- **IARC (International Agency for Research on Cancer)**

51-03-6	Piperonylbutoxide	3
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)	2A
133-06-2	captan (ISO)	3
298-00-0	parathion -methyl (ISO)	3

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333-41-5	diazinon (ISO)	2A
52645-53-1	permethrin (ISO)	3
	Ochratoxin A	2B

· **NTP (National Toxicology Program)**

Ochratoxin A	R
Aflatoxin B1	K
Aflatoxin G1	K
Aflatoxin B2	K
Aflatoxin G2	K

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 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.
- **Ecotoxicological effects:** N/A
- **Remark:** Very toxic for fish
- **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 information

· <b>UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b>	
· <b>ADR</b>	1993 FLAMMABLE LIQUID, N.O.S. (ACETONITRILE), ENVIRONMENTALLY HAZARDOUS
· <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (ACETONITRILE, Bifenthrin (ISO)), MARINE POLLUTANT

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· 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)

· Special precautions for user

Warning: Flammable liquids

· Hazard identification number (Kemler code): 33

· EMS Number:

F-E,S-E

· Segregation groups

Heavy metals and their salts (including their organometallic 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)

1L

· 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), 3, II, ENVIRONMENTALLY HAZARDOUS

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## 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)
999-81-5	chlormequat chloride (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
51-03-6	Piperonylbutoxide
60-51-5	dimethoate (ISO)
62-73-7	dichlorvos (ISO)
63-25-2	carbaryl (ISO)
67-56-1	methanol
82-68-8	quintozene (ISO)
113-48-4	MGK 264
114-26-1	propoxur (ISO)
116-06-3	aldicarb (ISO)
121-75-5	malathion (ISO)
133-06-2	captan (ISO)
298-00-0	parathion -methyl (ISO)
300-76-5	naled (ISO)
333-41-5	diazinon (ISO)
1563-66-2	carbofuran (ISO)
2032-65-7	mercaptodimethur (ISO)
7786-34-7	mevinphos (ISO)
13194-48-4	ethoprophos (ISO)
30560-19-1	acephate (ISO)
35554-44-0	imazalil (ISO)
40487-42-1	pendimethalin (ISO)

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52645-53-1	permethrin (ISO)
60207-90-1	propiconazole
68359-37-5	alpha-cyano-4-fluoro-3-phenoxybenzyl-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate
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 (Toxic Substances Control Act):

75-05-8	acetonitrile	ACTIVE
64-18-6	formic acid	ACTIVE
51-03-6	Piperonylbutoxide	ACTIVE
60-51-5	dimethoate (ISO)	ACTIVE
62-73-7	dichlorvos (ISO)	ACTIVE
63-25-2	carbaryl (ISO)	ACTIVE
67-56-1	methanol	ACTIVE
82-68-8	quintozene (ISO)	ACTIVE
116-06-3	aldicarb (ISO)	ACTIVE
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	ACTIVE
133-06-2	captan (ISO)	ACTIVE
333-41-5	diazinon (ISO)	ACTIVE
999-81-5	chlormequat chloride (ISO)	ACTIVE
1563-66-2	carbofuran (ISO)	ACTIVE

## · Hazardous Air Pollutants

75-05-8	acetonitrile
62-73-7	dichlorvos (ISO)
63-25-2	carbaryl (ISO)
67-56-1	methanol
82-68-8	quintozene (ISO)
114-26-1	propoxur (ISO)
133-06-2	captan (ISO)

## · Proposition 65

## · Chemicals known 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)
1596-84-5	daminozide
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)

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	Ochratoxin A
	Aflatoxin G1
	Aflatoxin B2
	Aflatoxin G2

· **Chemicals known to cause reproductive toxicity for females:**

63-25-2 carbaryl (ISO)

· **Chemicals known to cause reproductive toxicity for males:**

63-25-2 carbaryl (ISO)

88671-89-0 myclobutanil

· **Chemicals known to cause developmental toxicity:**

63-25-2 carbaryl (ISO)

67-56-1 methanol

2921-88-2 chlorpyrifos (ISO)

71751-41-2 abamectin (combination of avermectin B1a and avermectin B1b) (ISO)

88671-89-0 myclobutanil

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

75-05-8 acetonitrile CBD, D

62-73-7 dichlorvos (ISO) B2

116-06-3 aldicarb (ISO) D

74115-24-5 Clofentezine C

· **TLV (Threshold Limit Value)**

75-05-8 acetonitrile A4

56-72-4 coumaphos (ISO) A4

62-73-7 dichlorvos (ISO) A4

63-25-2 carbaryl (ISO) A4

82-68-8 quintozene (ISO) A4

114-26-1 propoxur (ISO) A3

121-75-5 malathion (ISO) A4

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 captan (ISO)

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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### 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** 05/25/2022 / -

· **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

Flammable Liquids 2: Flammable liquids – Category 2

Acute Toxicity - Dermal 4: Acute toxicity – Category 4

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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