

Printing date 07/28/2021 Review date 07/28/2021

1 Identification

- · Product identifier
- · Trade name: PCB Congener mix for Method 525.2
- · Article number N9331039
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

PerkinElmer, Inc.

710 Bridgeport Avenue

Shelton, Connecticut 06484 USA

CustomerCareUS@perkinelmer.com

203-925-4600

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



Flame

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



Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS02, GHS07
- · Signal word Danger
- · Hazard-determining components of labeling:

acetone

· Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

· Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

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

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray

(Contd. on page 2)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 1)

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P312 Call a poison center/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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



Health = 2 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



· Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· CAS No. Description

67-64-1 acetone

• EC number: 200-662-2 • Index number: 606-001-00-8

- Thuex number: 000-001-00-8
- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

Description: Mixture of the substances listed below with honnazardous daditions.	
· Hazardous components:	
67-64-1 acetone	Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336
· Additional Components	
2051-95-8 3-benzoylpropionic acid	♦ Skin Corr. 1B, H314 0.05%
	(Contd. on page 3)

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Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

		(Contd. of page 2)
2437-79-8	2,2',4,4'-Tetrachlorobiphenyl	0.05%
	2,4,5-Tetrachlorobiphenyl	0.05%
25569-80-6	2,3-Dichlorobiphenyl	0.05%
	2,2',3,3',4,4',6-Heptachlorobiphenyl	0.05%
	2,2',4,4',5,6'-Hexachlorobiphenyl	0.05%
	2,2',3',4,6-Pentachlorobiphenyl	0.05%
68194-17-2	2,2',3,3',4,5',6,6'-Octachlorobiphenyl	0.05%

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

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

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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

Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of 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.

(Contd. on page 4)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 3)

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· Protective Action Criteria for Chemicals	
· PAC-1:	
67-64-1 acetone	200 ppm
· PAC-2:	
67-64-1 acetone	3200* ppm
· PAC-3:	
67-64-1 acetone	5700* ppm

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 receptacles: 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.

· 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

- · · · · · · · · · · · · ·			
· Com	Components with limit values that require monitoring at the workplace: 67-64-1 acetone		
67-64			
PEL	Long-term value: 2400 mg/m³, 1000 ppm		
REL	Long-term value: 590 mg/m³, 250 ppm		
TLV	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI		
· Ingre	edients with biological limit values:		
67-64	67-64-1 acetone		

BEI 50 mg/L

Medium: urine Time: end of shift

Parameter: Acetone (nonspecific)

(Contd. on page 5)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 4)

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

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.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles or safety glasses

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- Appearance:

Form: Liquid
Color: Transparent
Odor: Characteristic
Odor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: 94.7 °C (202.5 °F)
Boiling point/Boiling range: 55 °C (131 °F)

(Contd. on page 6)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

	(Contd. of page
Flash point:	-19 °C (-2.2 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	2.6 Vol %
Upper:	13 Vol %
Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.6 %
VOC content:	99.60 %
Solids content:	0.1 %
Other information	No further relevant information available.
•	- · · · · · · · · · · · · · · · · · · ·

10 Stability and reactivity

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

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Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 6)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:	
67-64-1 acetone	

Oral LD50 5800 mg/kg (rat)
Dermal LD50 20000 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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

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.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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:

Dispose of container and materials in accordance with local, regional and national regulations.

(Contd. on page 8)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 7)

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

· UN-Number · DOT, ADR, IMDG, IATA · UN proper shipping name · DOT · ADR · IMDG, IATA	Acetone	
DOT ADR		
ADR		
	1000 ACETONE	
· IMDG, IATA	1090 ACETONE	
	ACETONE	
Transport hazard class(es)		
DOT		
(IMMAEL COOK)		
· Class	3 Flammable liquids	
Label	3	
· ADR		
Class	3 (F1) Flammable liquids	
Label	3	
· IMDG, IATA		
Class	3 Flammable liquids	
Label	3	
Packing group		
DOT, ADR, IMDG, IATA	II	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler o	code): 33	

(Contd. on page 9)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

	(Contd. of pag
· Stowage Category	E
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L
~ ,	On cargo aircraft only: 60 L
· <i>ADR</i>	
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 1090 ACETONE, 3, II

Safety, hea	alth and environmental regulations/legislation specific for the substance	e or mixture
67-64-1		99.6%
	Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STOT SE 3, H336	
2051-95-8	3-benzoylpropionic acid	0.05%
	♦ Skin Corr. 1B, H314	
2437-79-8	2,2',4,4'-Tetrachlorobiphenyl	0.05%
· Sara		
· Section 35.	5 (extremely hazardous substances):	
None of the	e ingredients is listed.	
· Section 31.	3 (Specific toxic chemical listings):	
None of the	e ingredients is listed.	
	xic Substances Control Act): ents are listed.	
67-64-1	acetone	ACTIVE
2051-95-8	3-benzoylpropionic acid	INACTIVE
· Hazardous	Air Pollutants	·
None of the	e ingredients is listed.	
· Proposition	n 65	
· Chemicals	known to cause cancer:	
None of the	e ingredients is listed.	
v		(Contd. on page 1



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 9)

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

67-64-1 acetone

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· TLV (Threshold Limit Value established by ACGIH)

67-64-1 acetone

A4

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

None of the ingredients is listed.

- · National regulations:
- · Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Disclaimer

The information provided in this Material 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 shall not be held liable for any damage resulting from handling or from contact with the product.

- · Department issuing SDS: Environmental, Health and Safety
- · Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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 Transport Association

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

(Contd. on page 11)



Printing date 07/28/2021 Review date 07/28/2021

Trade name: PCB Congener mix for Method 525.2

(Contd. of page 10)

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

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

* * Data compared to the previous version altered.