

SAFETY DATA SHEET

310L-1 Part A

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: 310L-1 Part A **Relevant identified uses of the substance or mixture and uses advised against** Relevant identified uses of the substance or mixture:

1.2. Adhesive

Use descriptors (UK REACH):

Restricted to professional users.

Sectors of use	Description
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU 19	Building and construction work
Product category	Description
PC 1	Adhesives, Sealants

1.3. Uses advised against : Details of the supplier of the safety data sheet

Company and address:

Cyanotec Ltd
Bay 2 Building 62, Third
Avenue,
Pensnett Trading Estate,
Kingswinford, West Midlands
DY6 7XT United Kingdom
sales@cyanotec.com

E-mail:

Revision:

SDS Version:

19/09/2025

1.4. Emergency telephone number

1.0

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

In the event of an emergency please contact 02033949871

SECTION 2: Hazards identification

2.1. Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. STOT SE 3; H335, May cause respiratory irritation.
Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye damage. (H318)
May cause respiratory irritation. (H335)

Precautionary statement(s):

General:

Not applicable.

Prevention:

Avoid breathing mist/vapour. (P261)
Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage:

Immediately call a POISON CENTER/doctor. (P310)
Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

Disposal:

Dispose of contents/container in accordance with local regulation.
(P501)

Hazardous substances:

Benzyl methacrylate
2-hydroxyethyl methacrylate
Methacrylate Terminated Butadiene Acrylonitrile Copolymer
methyl methacrylate;methyl 2-methylprop-2-enoate;methyl 2-methylpropenoate
methacrylic acid;2-methylpropenoic acid
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate
2-(N-methyl-p-toluidino)ethanol

2.3. Additional labelling:
Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Benzyl methacrylate	CAS No.: 2495-37-6 EC No.: 219-674-4 UK-REACH: Index No.:	15-25%	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319 STOT SE 3, H335 (SCL: 10.00 %)	
2-hydroxyethyl methacrylate	CAS No.: 868-77-9 EC No.: 212-782-2 UK-REACH: Index No.: 607-124-00-X	15-25%	EUH208 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319	
Methacrylate Terminated Butadiene Acrylonitrile Copolymer	CAS No.: 118578-03-3 EC No.: 626-129-8 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	CAS No.: 7534-94-3 EC No.: 231-403-1 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 3, H412	
methyl methacrylate;methyl 2-methylprop-2-enoate;methyl 2-methylpropenoate	CAS No.: 80-62-6 EC No.: 201-297-1 UK-REACH: Index No.: 607-035-00-6	1-3%	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335	[1]
methacrylic acid;2-methylpropenoic acid	CAS No.: 79-41-4 EC No.: 201-204-4 UK-REACH: Index No.: 607-088-00-5	1-3%	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Acute Tox. 4, H332 STOT SE 3, H335	
Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	CAS No.: 52829-07-9 EC No.: 258-207-9 UK-REACH: Index No.:	1-3%	Eye Dam. 1, H318 Repr. 2, H361f Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate	CAS No.: 52628-03-2 EC No.: 258-053-2 UK-REACH: Index No.:	1-3%	Flam. Liq. 2, H225 Skin Corr. 1A, H314 Skin Sens. 1B, H317 Eye Dam. 1, H318	
2-(N-methyl-p-toluidino)ethanol	CAS No.: 2842-44-6 EC No.: 220-638-5 UK-REACH: Index No.:	<1%	Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
cyclohexane	CAS No.: 110-82-7 EC No.: 203-806-2 UK-REACH: Index No.: 601-017-00-1	<0.05%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1], [3]

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.

[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

Eye contact:

If skin irritation occurs: Get medical advice/attention.
If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

4.2. Burns: Not applicable. **Most important symptoms and effects, both acute and delayed**

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medic
If skin irritation or rash occurs: Get medical advice/attention.

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO_x)

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

Contaminated areas may be slippery.

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4. Reference to other sections

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

7.2. Conditions for safe storage, including any incompatibilities

See section 8 "Exposure controls/personal protection" for information on personal protection.

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:

Storage conditions:

Keep only in original packaging.

Dry, cool and well ventilated

Room temperature 15 to 25°C

Incompatible materials:

Amines

Strong oxidizing agents

Strong acids

Reducing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

methyl methacrylate;methyl 2-methylprop-2-enoate;methyl 2-methylpropenoate

Long term exposure limit (8 hours) (ppm): 50
 Long term exposure limit (8 hours) (mg/m³): 208
 Short term exposure limit (15 minutes) (ppm): 100
 Short term exposure limit (15 minutes) (mg/m³): 416

methacrylic acid;2-methylpropenoic acid

Long term exposure limit (8 hours) (ppm): 20
 Long term exposure limit (8 hours) (mg/m³): 72
 Short term exposure limit (15 minutes) (ppm): 40
 Short term exposure limit (15 minutes) (mg/m³): 143

Paraffin waxes and Hydrocarbon waxes

Long term exposure limit (8 hours) (mg/m³): 2
 Short term exposure limit (15 minutes) (mg/m³): 6

propan-2-ol;isopropyl alcohol;isopropanol

Long term exposure limit (8 hours) (ppm): 400
 Long term exposure limit (8 hours) (mg/m³): 999
 Short term exposure limit (15 minutes) (ppm): 500
 Short term exposure limit (15 minutes) (mg/m³): 1250

cyclohexane

Long term exposure limit (8 hours) (ppm): 100
 Long term exposure limit (8 hours) (mg/m³): 350
 Short term exposure limit (15 minutes) (ppm): 300

Short term exposure limit (15 minutes) (mg/m³): 1050

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
 EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

2-hydroxyethyl methacrylate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	830 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.39 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.45 mg/m ³
Long term – Systemic effects - Workers	Inhalation	4.9 mg/m ³
Long term – Systemic effects - General population	Dermal	830 µg/kg bw/day
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Inhalation	1.74 mg/m ³
Long term – Systemic effects - Workers	Inhalation	7.04 mg/m ³

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	4.17 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	6.94 mg/kg bw/day

Long term – Systemic effects - General population	Inhalation	7.2 mg/m ³
Long term – Systemic effects - Workers	Inhalation	24.2 mg/m ³
Long term – Systemic effects - General population	Oral	4.17 mg/kg bw/day

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	900 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.8 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	310 µg/m ³
Long term – Systemic effects - Workers	Inhalation	1.27 mg/m ³
Long term – Systemic effects - General population	Oral	180 µg/kg bw/day

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	1186 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2016 mg/kg bw/day
Long term – Local effects - General population	Inhalation	206 mg/m ³
Long term – Local effects - Workers	Inhalation	700 mg/m ³
Long term – Systemic effects - General population	Inhalation	206 mg/m ³
Long term – Systemic effects - Workers	Inhalation	700 mg/m ³
Short term – Local effects - General population	Inhalation	412 mg/m ³
Short term – Local effects - Workers	Inhalation	1400 mg/m ³
Short term – Systemic effects - General population	Inhalation	412 mg/m ³
Short term – Systemic effects - Workers	Inhalation	1400 mg/m ³

Exo-1,7,7-trimethylbicyclo[2,2,1]hept-2-yl methacrylate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	210 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	350 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	360 µg/m ³
Long term – Systemic effects - Workers	Inhalation	1.22 mg/m ³
Long term – Systemic effects - General population	Oral	210 µg/kg bw/day

methacrylic acid, 2-methylpropenoic acid

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	380 µg/cm ²
Long term – Systemic effects - Workers	Dermal	4.25 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	44 mg/m ³
Long term – Systemic effects - Workers	Inhalation	39.3 mg/m ³

ethyl methacrylate; methyl prop-2-enoate; methyl 2-methylpropenoate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	1.5 mg/cm ²

Long term – Systemic effects - Workers	Dermal	13.67 mg/kg bw/day
Short term – Local effects - Workers	Dermal	1.5 mg/cm ²
Long term – Local effects - Workers	Inhalation	208 mg/m ³
Long term – Systemic effects - Workers	Inhalation	348.4 mg/m ³
Short term – Local effects - Workers	Inhalation	416 mg/m ³

propan-2-ol;isopropyl alcohol;isopropanol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	319 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	888 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	89 mg/m ³
Long term – Systemic effects - Workers	Inhalation	500 mg/m ³
Short term – Systemic effects - General population	Inhalation	178 mg/m ³
Short term – Systemic effects - Workers	Inhalation	1000 mg/m ³
Long term – Systemic effects - General population	Oral	26 mg/kg bw/day
Short term – Systemic effects - General population	Oral	51 mg/kg bw/day

PNEC

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		482 µg/L
Freshwater sediment		3.79 mg/kg
Intermittent release (freshwater)		1 mg/L
Marine water		48.2 µg/L
Marine water sediment		3.79 mg/kg
Sewage treatment plant		10 mg/L
2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate		476 µg/kg

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		68 µg/L
Freshwater sediment		481 µg/kg
Intermittent release (freshwater)		680 µg/L
Marine water		6.8 µg/L
Marine water sediment		48.1 µg/kg
Sewage treatment plant		546 µg/L
Benzyl methacrylate		56.2 µg/kg

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		10.3 µg/L
Freshwater sediment		423 µg/kg
Intermittent release (freshwater)		4.67 µg/L
Marine water		1.03 µg/L

Marine water sediment		42.3 µg/kg
Sewage treatment plant		1.33 mg/L
Soil		78.6 µg/kg

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.76 µg/L
Freshwater sediment		5.9 mg/kg
Intermittent release (freshwater)		7 µg/L
Marine water		380 ng/L
Marine water sediment		590 µg/kg
Sewage treatment plant		1 mg/L

cyclohexane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		44.7 µg/L
Freshwater sediment		3.6 mg/kg
Intermittent release (freshwater)		9 µg/L
Intermittent release (marine water)		900 ng/L
Marine water		4.47 µg/L
Marine water sediment		360 µg/kg
Sewage treatment plant		3.24 mg/L

Exo-4,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		2.33 µg/L
Freshwater sediment		1.2 mg/kg
Intermittent release (freshwater)		17.9 µg/L
Marine water		233 ng/L
Marine water sediment		120 µg/kg
Sewage treatment plant		2.45 mg/L

methacrylic acid;2-methylpropenoic acid

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		820 µg/L
Freshwater sediment		3.09 mg/kg
Intermittent release (freshwater)		450 µg/L
Marine water		82 µg/L
Marine water sediment		309 µg/kg
Sewage treatment plant		100 mg/L

Soil		137 µg/kg
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methyl methacrylate;methyl 2-methylprop-2-enoate;methyl 2-methylpropenoate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		940 µg/L
Freshwater sediment		10.2 mg/kg
Intermittent release (freshwater)		690 µg/L
Marine water		94 µg/L
Marine water sediment		1.02 mg/kg
Sewage treatment plant		10 mg/L
propan-2-ol;isopropyl alcohol;isopropanol		1.48 mg/kg

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		140.9 mg/L
Freshwater sediment		552 mg/kg
Intermittent release (freshwater)		140.9 mg/L
Marine water		140.9 mg/L
Marine water sediment		552 mg/kg
Predators		160 mg/kg
Sewage treatment plant		2.251 g/L

8.2.

Compliance with the given occupational exposure limits values should be controlled on a regular basis.
General recommendations: Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Ensure that eyewash stations and safety showers are located within easy reach. Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure:

No specific requirements.

Individual protection measures, such as personal protective equipment

Generally:

Use only UKCA marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,425	> 60	EN374-2, EN16523-1, EN388	

Eye protection:

Type	Standards	
Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Highly viscous mass
Colour:	No data available.
Odour / Odour threshold:	Sweet
pH:	No data available.
Density (g/cm ³):	1
Kinematic viscosity:	No data available.
Particle characteristics:	Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):	No data available.
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	No data available.
Vapour pressure:	No data available.
Relative vapour density:	No data available.

Data on fire and explosion hazards

Decomposition temperature (°C):	No data available.
Flash point (°C):	No data available.
Flammability (°C):	No data available.

	Auto-ignition temperature (°C):	No data available.
	Lower and upper explosion limit (% v/v):	No data available.
Solubility		
	Solubility in water:	No data available.
	n-octanol/water coefficient (LogKow):	No data available.
9.2. Other information	Solubility in fat (g/L):	No data available.
	Oxidizing properties:	No data available.
	Other physical and chemical parameters:	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Extremes of temperature
Static electricity

10.5. Incompatible materials

Amines
Strong acids
Strong oxidizing agents
Reducing agents

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	Benzyl methacrylate
Test method:	OECD 401
Species:	Rat, female
Route of exposure:	Oral
Test:	LD50

Result:	3980 mg/kg
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Product/substance	Benzyl methacrylate
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Test:	LD50

Result:	>2000 mg/kg
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Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
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Species:	Rat, male/female
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>3000 mg/kg
Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LC50
Result:	3700 mg/kg
Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	7.7 mg/L
Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50 (4 hours)
Result:	0.5 mg/L
Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	3170 mg/kg

Based on available data for the mixture, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	Benzyl methacrylate
Species:	Rabbit
Result:	Adverse effect observed (Slightly irritating)
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Result:	Adverse effect observed (Irritating)
Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
Test method:	OECD 404
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

Serious eye damage/irritation

Product/substance	Benzyl methacrylate
Test method:	OECD 405
Species:	Rabbit

Result:	No adverse effect observed (Not irritating)
Product/substance Result:	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate Adverse effect observed (Irritating)
Product/substance Test method:	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Causes serious eye damage)

Causes serious eye damage.

Respiratory sensitisation

Based on available data for the mixture, the classification criteria are not met.

Skin sensitisation

Product/substance Test method:	Benzyl methacrylate OECD 429
Species:	Mouse
Result:	Adverse effect observed (sensitising)
Product/substance Test method:	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)
Product/substance Test method:	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)

May cause an allergic skin reaction.

Germ cell mutagenicity

Product/substance Conclusion:	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate No adverse effect observed
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Based on available data for the mixture, the classification criteria are not met.

Carcinogenicity

Based on available data for the mixture, the classification criteria are not met.

Reproductive toxicity

Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
-------------------	---

Based on available data for the mixture, the classification criteria are not met.

STOT-single exposure

Product/substance Route of exposure:	Benzyl methacrylate Inhalation
Conclusion:	Adverse effect observed

May cause respiratory irritation.

STOT-repeated exposure

Product/substance	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
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Based on available data for the mixture, the classification criteria are not met.

Aspiration hazard

Based on available data for the mixture, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

methyl methacrylate;methyl 2-methylprop-2-enoate;methyl 2-methylpropenoate has been classified by IARC as a group 3 carcinogen.

propan-2-ol;isopropyl alcohol;isopropanol has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Benzyl methacrylate
Species:	Fish, Pimephales promelas
Duration:	96 hours
Test:	LC50
Result:	4.67 mg/L
Product/substance	Benzyl methacrylate
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	EC10
Result:	1.03 mg/L
Product/substance	Benzyl methacrylate
Test method:	OECD 201
Species:	Algae, Desmodesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	2.28 mg/L
Product/substance	Benzyl methacrylate
Test method:	OECD 201
Species:	Algae, Desmodesmus subspicatus
Duration:	72 hours
Test:	EC10
Result:	1.08 mg/L
Product/substance	Benzyl methacrylate
Test method:	OECD 211
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	EC50
Result:	15.3 mg/L
Product/substance	Benzyl methacrylate
Test method:	OECD 211
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	NOEC
Result:	4.21 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 203
Species:	Fish, Danio rerio
Duration:	96 hours

Test:	LC50
Result:	1.79 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 203
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	NOEC
Result:	0.97 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	>2.57 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 202
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	NOEC
Result:	2.57 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	EC50
Result:	2.28 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	NOEC
Result:	0.97 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 211
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	NOEC
Result:	0.233 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 211
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	EC50
Result:	0.658 mg/L
Product/substance	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
Test method:	OECD 211
Species:	Daphnia, Daphnia magna
Duration:	21 days
Test:	EC50

Result: 0.851 mg/L

Product/substance: Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
 Test method: OECD 201
 Species: Algae, *Pseudokirchneriella subcapitata*
 Duration: 72 hours
 Test: NOEC

Result: 0.251 mg/L

Product/substance: Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
 Test method: OECD 203
 Species: Fish, *Lepomis macrochirus*
 Duration: 96 hours
 Test: LC50

Result: 4.4 mg/L

Product/substance: Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
 Test method: OECD 202
 Species: *Daphnia*
 Duration: 48 hours
 Test: EC50

Result: 8.6 mg/L

Product/substance: Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
 Test method: OECD 201
 Species: *Pseudokirchneriella subcapitata*
 Duration: 72 hours
 Test: EC10

Result: 0.188 mg/L

Product/substance: Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
 Test method: OECD 201
 Species: *Pseudokirchneriella subcapitata*
 Duration: 72 hours
 Test: EC50

Result: 0.705 mg/L

Product/substance: Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate
 Test method: OECD 209
 Compartment: Activated Sludge Plant
 Duration: 3 hours
 Test: EC50

Result: >100 mg/L

12.2. Persistence and degradability

Based on available data for the mixture, the classification criteria are not met.

Product/substance: Benzyl methacrylate
 Duration: 28 days
 Result: 74 %
 Conclusion: Readily biodegradable

Test: OECD 301 B

Product/substance: Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
 Duration: 28 days
 Result: 70 %

Conclusion: Readily biodegradable

- Test: OECD 310
- 12.3. Bioaccumulative potential**
- Product/substance: Benzyl methacrylate
LogKow: 3.1
Conclusion: Bioaccumulation is not expected
- Test: OECD 117
- Product/substance: Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate
LogKow: 5.09
Conclusion: Bioaccumulation is not expected
- Test: OECD 117
- 12.4. Mobility in soil**
- 12.5. Results of PBT and vPvB assessment**
- No data available.
- 12.6. Endocrine disrupting properties**
- This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.
- 12.7. Other adverse effects**
- This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
- This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 4 - Irritant (skin irritation and eye damage)
HP 5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 13 - Sensitising
Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

Not applicable.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

- 14.6. Not dangerous goods according to ADR, IATA and IMDG.
Special precautions for user
- 14.7. Not applicable.
Maritime transport in bulk according to IMO instruments
- No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:	Restricted to professional users. People under the age of 18 shall not be exposed to this product. Must not be used by persons suffering from acrylic dermatitis.
Demands for specific education:	No specific requirements.
Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:	Not applicable.
UK-REACH, Annex XVII:	cyclohexane is subject to restrictions, UK-REACH annex XVII (entry 57). methyl methacrylate;methyl 2-methylprop-2-enoate;methyl 2-methylpropenoate is subject to UK-REACH restrictions (entry 40). 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate is subject to UK-REACH restrictions (entry 40). propan-2-ol;isopropyl alcohol;isopropanol is subject to UK-REACH restrictions (entry 40). cyclohexane is subject to UK-REACH restrictions (entry 40).
Additional information:	Not applicable.
Sources:	The Management of Health and Safety at Work Regulations 1999. The Health and Safety at Work etc. Act 1974 Regulations 2013. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H208, Contains {0}. May produce an allergic reaction.
H225, Highly flammable liquid and vapour.
H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.
H311, Toxic in contact with skin.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H361f, Suspected of damaging fertility.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

SU 17 = General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU 19 = Building and construction work

Abbreviations and acronyms

PC 1 = Adhesives, Sealants
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en

SAFETY DATA SHEET

310L-1 Part B

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

▼Trade name: 310L-1 Part B **Relevant identified uses of the substance or**

1.2. **mixture and uses advised against** Relevant identified uses of the substance or mixture: Adhesive

Use descriptors (UK REACH):

Restricted to professional users.

Sectors of use	Description
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU 19	Building and construction work
Product category	Description
PC 1	Adhesives, Sealants

1.3. Uses advised against : **Details of the supplier of the safety data sheet**

Company and address:

Cyanotec Ltd
Bay 2 Building 62, Third
Avenue,
Pensnett Trading Estate,
Kingswinford, West Midlands
DY6 7XT United Kingdom
sales@cyanotec.com

E-mail:

Revision:

19/09/2025

SDS Version:

1.0

1.4. Date of previous version:

11/07/2025 (1.0)

Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

In the event of an emergency please contact 02033949871

SECTION 2: Hazards identification

2.1. Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law. **Classification of the substance or mixture**

Skin Irrit. 2; H315, Causes skin irritation.

Skin Sens. 1; H317, May cause an allergic skin reaction.

Eye Irrit. 2; H319, Causes serious eye irritation.
Aquatic Acute 1; H400, Very toxic to aquatic life.

2.2. Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects.
Label elements

Hazard pictogram(s):



Signal word:

Warning

Hazard statement(s):

Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
Very toxic to aquatic life with long lasting effects. (H410)

Precautionary statement(s):

▼ General:

Not applicable.

Prevention:

Avoid breathing mist/vapour. (P261)
Contaminated work clothing should not be allowed out of the workplace. (P272)
Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)

▼ Storage:

Not applicable.

Disposal:

Dispose of contents/container in accordance with local regulation.

Hazardous substances:

(P501)
bis-[4-(2,3-epoxipropoxy)phenyl]propane
dibenzoyl peroxide; benzoyl peroxide
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

Additional labelling:

EUH205, Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

Additional warnings:

Contains epoxy constituents. May produce an allergic reaction.
This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
bis-[4-(2,3-epoxipropoxy)phenyl]propane	CAS No.: 1675-54-3 EC No.: 216-823-5 UK-REACH: Index No.: 603-073-00-2	15-25%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
dibenzoyl peroxide;benzoyl peroxide	CAS No.: 94-36-0 EC No.: 202-327-6 UK-REACH: Index No.: 617-008-00-0	10-15%	Org. Perox. B, H241 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	
Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane	CAS No.: EC No.: 701-263-0 UK-REACH: Index No.:	5-10%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
Oxydipropyl dibenzoate	CAS No.: 27138-31-4 EC No.: 248-258-5 UK-REACH: Index No.:	5-10%	Aquatic Chronic 3, H412	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

-

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

Eye contact:	If skin irritation occurs: Get medical advice/attention. If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.
Ingestion:	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

- 4.2. Burns: Not applicable.
Most important symptoms and effects, both acute and delayed
Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.
- 4.3. **Indication of any immediate medical attention and special treatment needed**
If eye irritation persists: Get medical advice/attention.

Information to medic
If skin irritation or rash occurs: Get medical advice/attention.

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

- 5.1. **Extinguishing media**
Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.
- 5.2. **Special hazards arising from the substance or mixture**
Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
- 5.3. Carbon oxides (CO / CO₂)
Advice for firefighters
Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.
Hazchem Code: ●3Z
-

SECTION 6: Accidental release measures

- 6.1. **Personal precautions, protective equipment and emergency procedures**
Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.
- 6.2. **Environmental precautions**
Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

6.4. Reference to other sections

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Peroxide formation may be present anywhere in the container, including the sides, bottom, exterior and threaded cap. Peroxide formation in ppm concentrations may not be visually observable and must be identified through the use of appropriate testing procedures. If any of the following conditions exist, the material may be explosively unstable and will require stabilization prior to use:

1. Material appears to be degraded and or contaminated.
 2. Material appears to be discolored.
 3. Deterioration or distortion of storage container.
 4. Thermal shock (sunlight).
 5. Age of material exceeds recommended storage time.
- Smoking, drinking and consumption of food is not allowed in the work area.

7.2. Conditions for safe storage, including any incompatibilities

See section 8 "Exposure controls/personal protection" for information on personal protection.

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage material:	Keep only in original packaging.
Storage conditions:	Dry, cool and well ventilated
Incompatible materials:	Amines Reducing agents Strong acids Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dibenzoyl peroxide; benzoyl peroxide

Long term exposure limit (8 hours) (mg/m³): 5

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Long term exposure limit (8 hours) (mg/m³): 10(inhalable)/4(respirable)

Zirconium dioxide

Long term exposure limit (8 hours) (mg/m³): 5 (As Zr)

Short term exposure limit (15 minutes) (mg/m³): 10 (As Zr)

Aluminium hydroxide

Long term exposure limit (8 hours) (mg/m³): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

Aluminium hydroxide

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	10.76 mg/m ³
Long term – Systemic effects - Workers	Inhalation	10.76 mg/m ³
Long term – Systemic effects - General population	Oral	4.74 mg/kg bw/day
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	89.3 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	750 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	870 µg/m ³
Long term – Systemic effects - Workers	Inhalation	4.93 mg/m ³
Long term – Systemic effects - General population	Oral	500 µg/kg bw/day
Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	34 µg/cm ²
Long term – Systemic effects - Workers	Dermal	13.3 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	39 mg/m ³
Long term – Systemic effects - General population	Oral	2 mg/kg bw/day
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	10 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	80 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	170 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	8.69 mg/m ³
Long term – Systemic effects - Workers	Inhalation	8.8 mg/m ³
Short term – Systemic effects - General population	Inhalation	8.7 mg/m ³
Short term – Systemic effects - Workers	Inhalation	35.08 mg/m ³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects	Dermal	62.5 mg/kg bw/day
Long term – Systemic effects	Dermal	104.15 mg/kg bw/day
Long term – Systemic effects	Inhalation	8.7 mg/m ³

PNEC

Long term – Systemic effects	Inhalation	29.39 mg/m ³
Long term – Systemic effects	Oral	6.25 mg/kg bw/day

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	28 µg/m ³
Long term – Local effects - Workers	Inhalation	170 µg/m ³

bis-[4-(2,3-epoxipropoxy)phenyl]propane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6 µg/L
Freshwater sediment		341 µg/kg
Intermittent release (freshwater)		18 µg/L
Intermittent release (marine water)		1.8 µg/L
Marine water		600 ng/L
Marine water sediment		34.1 µg/kg
Predators		11 mg/kg
Sewage treatment plant		10 mg/L

dibenzoyl peroxide, benzoyl peroxide

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		20 ng/L
Freshwater sediment		12.7 µg/kg
Intermittent release (freshwater)		602 ng/L
Marine water		2 ng/L
Marine water sediment		1.27 µg/kg
Sewage treatment plant		350 µg/L

Oxydipropyl dibenzoate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		20 µg/L
Freshwater sediment		8.03 mg/kg
Intermittent release (freshwater)		40 µg/L
Intermittent release (marine water)		10 µg/L
Marine water		2 µg/L
Marine water sediment		803 µg/kg
Predators		333 mg/kg

Reaction mass of 2,2' [methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2' [methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane

Soil		1 mg/kg
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Route of exposure:	Duration of Exposure:	PNEC:
		0.294 mg/kg
		0.029 mg/kg
		10 mg/L
Freshwater		0.003 mg/L
Intermittent release		0.025 mg/L
Marine water		0 mg/L
Soil		0.237 g/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only UKCA marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				
Skin protection:				
Recommended	Type/Category	Standards		
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-		
Hand protection:				

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,3	> 60	EN374-2, EN16523-1, EN388, EN421	

Eye protection:

Type	Standards	
Safety glasses	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	White
Odour / Odour threshold:	No data available.
pH:	No data available.
Density (g/cm ³):	No data available.
Kinematic viscosity:	No data available.
Particle characteristics:	Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):	No data available.
Softening point/range (°C):	Does not apply to liquids.
Boiling point (°C):	No data available.
Vapour pressure:	No data available.
Relative vapour density:	No data available.
Decomposition temperature (°C):	No data available.

Data on fire and explosion hazards

Flash point (°C):	No data available.
Flammability (°C):	No data available.
Auto-ignition temperature (°C):	No data available.
Lower and upper explosion limit (% v/v):	No data available.

Solubility

Solubility in water:	No data available.
n-octanol/water coefficient (LogKow):	No data available.
Solubility in fat (g/L):	No data available.

9.2. Other information

Oxidizing properties:	No data available.
Other physical and chemical parameters:	No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. No data available.
Chemical stability

10.3. The product is stable under the conditions, noted in section 7 "Handling and storage".
Possibility of hazardous reactions

10.4. None known.
Conditions to avoid

10.5. Extremes of temperature
Incompatible materials

Amines
Strong acids
Strong oxidizing agents
Reducing agents

10.6. **Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law**

▼ Acute toxicity

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Species: Rat
Route of exposure: Oral
Test: LC50

Result: 15000 mg/kg

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Species: Rabbit
Route of exposure: Dermal
Test: LD50

Result: 23000 mg/kg

Product/substance Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
Species: Rat

Route of exposure: Oral
Test: LD50

Result: 5000 mg/kg

Product/substance Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane
Species: Rat

Route of exposure: Dermal
Test: LD50

Result: 2000 mg/kg

Product/substance Zirconium dioxide
Route of exposure: Oral

Result: >5000 mg/kg

Product/substance Zirconium dioxide

Route of exposure: Inhalation

Result: 4.3 mg/L

Based on available data for the mixture, the classification criteria are not met.

Skin corrosion/irritation

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Result: Adverse effect observed (Irritating)

Product/substance

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

Result: Adverse effect observed (Irritating)

Causes skin irritation.

Serious eye damage/irritation

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane

Result: Adverse effect observed (Causes serious eye damage)

Product/substance

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

Result: Adverse effect observed (Causes serious eye damage)

Causes serious eye irritation.

▼Respiratory sensitisation

Based on available data for the mixture, the classification criteria are not met.

Skin sensitisation

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Result: Adverse effect observed (sensitising)

Product/substance

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane

Result: Adverse effect observed (sensitising)

May cause an allergic skin reaction.

▼Germ cell mutagenicity

Based on available data for the mixture, the classification criteria are not met.

▼Carcinogenicity

Based on available data for the mixture, the classification criteria are not met.

▼Reproductive toxicity

Based on available data for the mixture, the classification criteria are not met.

▼STOT-single exposure

Based on available data for the mixture, the classification criteria are not met.

▼STOT-repeated exposure

Based on available data for the mixture, the classification criteria are not met.

▼Aspiration hazard

Based on available data for the mixture, the classification criteria are not met.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

bis-[4-(2,3-epoxipropoxy)phenyl]propane has been classified by IARC as a group 3 carcinogen.
dibenzoyl peroxide; benzoyl peroxide has been classified by IARC as a group 3 carcinogen.
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Species: Oncorhynchus mykiss
Duration: 96 hours
Test: LC50

Result: 2 mg/L

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Species: Daphnia magna
Duration: 48 hours
Test: EC50

Result: 1.8 mg/L

Product/substance bis-[4-(2,3-epoxipropoxy)phenyl]propane
Species: Algae
Duration: 72 hours
Test: EC50

Result: 11 mg/L

Product/substance Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane
Species: Fish
Duration: 96 hours
Test: LC50

Result: 2.54 mg/L

Product/substance Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane
Species: Daphnia magna
Duration: 48 hours
Test: EC50

Result: 2.55 mg/L

Product/substance Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane
Species: Algae
Duration: 72 hours
Test: EC50

Result: 1.8 mg/L

Product/substance Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane

Product/substance

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane

Product/substance

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane

Product/substance

Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane

Very toxic to aquatic life with long lasting effects.

12.2. ▼ Persistence and degradability

12.3. Based on available data for the mixture, the classification criteria are not met.

▼ Bioaccumulative potential

12.4. Based on available data for the mixture, the classification criteria are not met.

Mobility in soil

12.5. No data available.

Results of PBT and vPvB assessment

12.6. This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 4 - Irritant (skin irritation and eye damage)

HP 13 - Sensitising

HP 14 - Ecotoxic

Dispose of contents/container to an approved waste disposal plant.

EWC code Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Not applicable.

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
ADR	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Transport hazard class: 9 Label: 9 Classification code: M6	III	Yes	Limited quantities: 5 L Tunnel restriction

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other informatio n:
			 			code: (-) See below for additional informatio n.
IMDG	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Transport hazard class: 9 Label: 9 Classification code: M6  	III	Yes	Limited quantities: 5 L EmS: F-A S- F See below for additional informatio n.
IATA	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Transport hazard class: 9 Label: 9 Classification code: M6  	III	Yes	See below for additional informatio n.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.
These substances when carried in single or combination packaging's containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR/IMDG/IATA provided the packaging's meet the general provisions of 4.1.1.1, 4.1.1.2, 4.1.1.4 - 4.1.1.8 (ADR, IMDG) / 5.0.2.4.1, 5.0.2.6.1.1, 5.0.2.8 (IATA).

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ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Hazchem Code: ●3Z
Special precautions for user

14.7. Not applicable.
Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Restrictions for application:	Restricted to professional users. People under the age of 18 shall not be exposed to this product.
Demands for specific education:	Use of this product requires dedicated training in work with polyurethane and epoxy products.
Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:	E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes
Additional information:	Not applicable.
Sources:	The Management of Health and Safety at Work Regulations 1999. Control of Major Accident Hazards (COMAH) Regulations 2015. Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H241, Heating may cause a fire or explosion.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H319, Causes serious eye irritation.
H400, Very toxic to aquatic life.
H410, Very toxic to aquatic life with long lasting effects.
H411, Toxic to aquatic life with long lasting effects.
H412, Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

SU 17 = General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU 19 = Building and construction work

Abbreviations and acronyms

PC 1 = Adhesives, Sealants
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Other

A change (in proportion to the last essential change (first cipher i n SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en