SAFETY DATA SHEET

Beal Brake & Airline Sealant (LS10)

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

1.1. Product identifier Trade name Beal Brake & Airline Sealant (LS10) Product no. 301285 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Adhesive/Binding Agent Uses advised against None known. 1.3. Details of the supplier of the safety data sheet Company and address Beal UK Ltd Sterling Works, Texas Street, Tingley Leeds LS27 0HG t: 0113 253 8888 f: 0800 357 650 e-mail: guality@beal.org.uk www.beal.org.uk Revision 19/06/2024 **SDS Version** 1.0 1.4. Emergency telephone number Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures". SECTION 2: Hazards identification Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law. 2.1. Classification of the substance or mixture Asp. Tox. 1; H304, May be fatal if swallowed and enters airways. 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. Aquatic Chronic 1; H410, Very toxic to aquatic life with long lasting effects. 2.2. Label elements Hazard pictogram(s) Signal word

Danger Hazard statement(s) May be fatal if swallowed and enters airways. (H304)

Causes skin irritation. (H315) May cause an allergic skin reaction. (H317) Causes serious eye damage. (H318) Very toxic to aquatic life with long lasting effects. (H410) Precautionary statement(s) General If medical advice is needed, have product container or label at hand. (P101) Keep out of reach of children. (P102) 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) Immediately call a POISON CENTER/doctor. (P310) Storage Store locked up. (P405) Disposal Dispose of contents/container in accordance with local regulation (P501) Hazardous substances 2,2'-ethylenedioxydiethyl dimethacrylate Bis(isopropyl)naphthalene Methacrylic acid, monoester with propane-1,2-diol α,α-dimethylbenzyl hydroperoxide;cumene hydroperoxide 2'-phenylacetohydrazide acrylic acid;prop-2-enoic acid Additional labelling Not applicable. 2.3. 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) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
2,2'-ethylenedioxydiethyl dimethacrylate	CAS No.: 109-16-0 EC No.: 203-652-6 UK-REACH: EURO 01-2119969287-21-XXXX Index No.:	25-40%	Skin Sens. 1B, H317	
Bis(isopropyl)naphthalene	CAS No.: 38640-62-9 EC No.: 254-052-6 UK-REACH: EURO 01-2119565150-48-XXXX Index No.:	25-40%	Asp. Tox. 1, H304 Aquatic Chronic 1, H410 (M=1)	
Methacrylic acid, monoester with propane-1,2-diol	CAS No.: 27813-02-1 EC No.: 248-666-3 UK-REACH: EURO 01-2119490226-37-XXXX Index No.:	5-10%	Skin Sens. 1, H317 Eye Irrit. 2, H319	

α,α-dimethylbenzyl hydroperoxide;cumene hydroperoxide	CAS No.: 80-15-9 EC No.: 201-254-7 UK-REACH: Index No.: 617-002-00-8	5-10%	Org. Perox. E, H242 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 (SCL: 10.00 %) Skin Irrit. 2, H315 (SCL: 3.00 %) Eye Dam. 1, H318 Acute Tox. 3, H331 STOT SE 3, H336 STOT RE 2, H373 Aquatic Chronic 1, H410 (M=1)	
2'-phenylacetohydrazide	CAS No.: 114-83-0 EC No.: 204-055-3 UK-REACH: Index No.:	<1%	Acute Tox. 3, H301 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335	
acrylic acid;prop-2-enoic acid	CAS No.: 79-10-7 EC No.: 201-177-9 UK-REACH: EURO 01-2119452449-31-XXXX Index No.: 607-061-00-8	<1%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Acute Tox. 4, H332 STOT SE 3, H335 (SCL: 1.00 %) Aquatic Acute 1, H400 (M=1)	[1]
N,N-dimethyl-o-toluidine;N,N- dimethyl-p-toluidine;N,N-dim ethyl-m-toluidine		<1%	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT RE 2, H373 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

[1] European occupational exposure limit.

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

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

Eye contact

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 SWALLOWED: Immediately call a POISON CENTER/doctor.

Do not induce vomiting! If vomiting occurs, keep head facing down so that vomit does not get into the lungs. Call a doctor or ambulance. Symptoms of chemical pneumonia can appear after several hours. People who have

swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

This product contains substances that can cause chemical pneumonia if swallowed. Symptoms of chemical pneumonia may appear after several hours.

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 medics

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:

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

6.4. Reference to other sections

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.

Avoid direct contact with the product.

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

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

7.2. Conditions for safe storage, including any incompatibilities

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 temperature

Dry, cool and well ventilated

Incompatible materials

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

acrylic acid;prop-2-enoic acid Long term exposure limit (8 hours) (ppm): 10 Long term exposure limit (8 hours) (mg/m³): 29 Short term exposure limit (15 minutes) (ppm): 20 (1 min.) Short term exposure limit (15 minutes) (mg/m³): 59 (1 min.)

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

2,2'-ethylenedioxydiethyl dimethacrylate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	8.33 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	13.9 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	14.5 mg/m ³
Long term – Systemic effects - Workers	Inhalation	48.5 mg/m ³
Long term – Systemic effects - General population	Oral	8.33 mg/kg bw/day

acrylic acid;prop-2-enoic acid

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	3.6 mg/m ³
Long term – Local effects - Workers	Inhalation	30 mg/m ³
Long term – Systemic effects - General population	Inhalation	3.6 mg/m ³
Long term – Systemic effects - Workers	Inhalation	30 mg/m ³
Short term – Local effects - General population	Inhalation	3.6 mg/m ³
Short term – Local effects - Workers	Inhalation	30 mg/m³
Short term – Systemic effects - General population	Inhalation	3.6 mg/m ³
Short term – Systemic effects - Workers	Inhalation	30 mg/m³
Long term – Systemic effects - General population	Oral	400 µg/kgbw/day
Short term – Systemic effects - General population	Oral	1.2 mg/kg bw/day

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	850 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	2.38 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.48 mg/m ³
Long term – Systemic effects - Workers	Inhalation	8.4 mg/m ³
Long term – Systemic effects - General population	Oral	850 μg/kgbw/day

Methacrylic acid, monoester with propane-1,2-diol		
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	4.2 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.35 mg/m ³
Long term – Systemic effects - Workers	Inhalation	14.7 mg/m ³
Long term – Systemic effects - General population	Oral	2.5 mg/kg bw/day
α,α-dimethylbenzyl hydroperoxide;cumene hydroperoxide		
Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Inhalation	6 mg/m³
IEC		
2,2'-ethylenedioxydiethyl dimethacrylate		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		16.4 µg/L
Freshwater sediment		185 µg/kg
Intermittent release (freshwater)		16.4 µg/L
Marine water		1.64 µg/L
Marine water sediment		18.5 µg/kg
Sewage treatment plant		1.7 mg/L
Soil		27.4 µg/kg
acrylic acid;prop-2-enoic acid		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3 µg/L
Freshwater sediment		23.64 µg/kg
Intermittent release (freshwater)		1.3 µg/L
Marine water		300 ng/L
Marine water sediment		2.364 µg/kg
Predators		30 mg/kg
Sewage treatment plant		900 µg/L
Soil		1 mg/kg
Bis(isopropyl)naphthalene	a	
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		236 ng/L
Freshwater sediment		853 µg/kg
Marine water		23.6 ng/L
Marine water sediment		85.3 μg/kg
Predators		25 mg/kg
Sewage treatment plant		150 μg/L
Soil		171 µg/kg
Methacrylic acid, monoester with propane-1,2-diol		
Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		904 µg/L
		6.28 mg/kg
Freshwater sediment		0.28 mg/kg

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Marine water	90.4 µg/L
Marine water sediment	6.28 mg/kg
Sewage treatment plant	10 mg/L
Soil	727 µg/kg

α,α-dimethylbenzyl hydroperoxide;cumene hydroperoxide

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		3.1 µg/L
Freshwater sediment		23 µg/kg
Intermittent release (freshwater)		31 µg/L
Marine water		310 ng/L
Marine water sediment		2.3 µg/kg
Sewage treatment plant		350 μg/L
Soil		2.9 µg/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.

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

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

copilatory Equipment				
Туре	Class	Colour	Standards	
No special when used as intended.				
Skin protection				
Recommended	Type/Category	Standard	s	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-		R
Hand protection				
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Butyl	0,7	> 30	EN374-2, EN374-3, EN388, EN421	11. M

Eye protection				
Туре	Standards			
Safety glasses	EN166			\bigcirc
SECTION 9: Physical ar	nd chemical properti	es		
9.1. Information on bas Physical state Liquid Colour Yellow	ic physical and cher	nical properties		
Odour / Odour thres Mild	hold			
Density (g/cm ³)	ant or not possible d		·	
Kinematic viscosity	ant or not possible d		·	
Particle characteristi Does not apply to		ue to the nature of	the product.	
Phase changes Melting point/Freezi	ng point (°C) ant or not possible d	ue to the nature of	the product.	
Does not apply to Boiling point (°C) Testing not relevant	liquids.	to the pature of the	product	
Vapour pressure Testing not releva	ant or not possible d			
Relative vapour dens Testing not relevant Decomposition temp	or not possible due	to the nature of the	e product.	
Testing not relevant or Data on fire and explos	not possible due to	the nature of the p	roduct.	
Flash point (°C) Testing not relevant Flammability (°C)	or not possible due	to the nature of the	e product.	
Testing not relevant Auto-ignition tempe	rature (°C)			
Testing not relevant Lower and upper exp Testing not releva				
Solubility Solubility in water	ant of not possible o		the product.	
Testing not relevant n-octanol/water coef	fficient (LogKow)			
Testing not relevant Solubility in fat (g/L) Testing not releva	or not possible due ant or not possible d			
9.2. Other information Oxidizing properties			·	
Testing not relevant Other physical and c No data available	hemical parameters		e product.	

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

None known.

10.4. Conditions to avoid

Heat

Sunlight

10.5. Incompatible materials Strong oxidizing agents

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

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

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory sensitisation

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

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

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

acrylic acid;prop-2-enoic acid has been classified by IARC as a group 3 carcinogen.

N,N-dimethyl-o-toluidine;N,N-dimethyl-p-toluidine;N,N-dimethyl-m-toluidine has been classified by IARC as a group 2B carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

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

- 12.4. Mobility in soil
- No data available.
- 12.5. Results of PBT and vPvB assessment

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

12.6. 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 6 - Acute toxicity HP 8 - Corrosive HP 13 - Sensitising HP 14 - Ecotoxic 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 14.2 UN / ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Other Env** information:
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 code: (-) See below for additional information.
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 information.

	14.1 14.2 UN / ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
IATA	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Transport hazard class: 9 Label: 9 Classification code: M6	ΙΠ	Yes	See below for additional information.

* Packing group

** Environmental hazards

Additional information

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).

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.

This product is within scope of the regulations of transport of dangerous goods. Hazchem Code: \bullet 3Z

14.6. Special precautions for user

Not applicable.

14.7. 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	r the substance or mixture

Restrictions for application

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

E1 - ENVIRONMENTAL HAZARDS, Qualifying quantity (lower-tier): 100 tonnes / (upper-tier): 200 tonnes

UK-REACH, Annex XVII

acrylic acid;prop-2-enoic acid is subject to UK-REACH restrictions, UK-REACH annex XVII (entry 40).

- Additional information
 - Tactile warning.

If this product is sold in retail, it must be delivered with child-resistant fastening.

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

- H226, Flammable liquid and vapour.
- H242, Heating may cause a fire.
- H301, Toxic if swallowed.
- H302, Harmful if swallowed.
- H304, May be fatal if swallowed and enters airways.
- H311, Toxic in contact with skin.
- H312, Harmful 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.
- H331, Toxic if inhaled.
- H332, Harmful if inhaled.
- H335, May cause respiratory irritation.
- H336, May cause drowsiness or dizziness.
- H373, May cause damage to organs through prolonged or repeated exposure.
- H400, Very toxic to aquatic life.
- H410, Very toxic to aquatic life with long lasting effects.
- H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

- 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 (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

Paul Reeds

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