



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: REACH Regulation (EC) No 1907/2006, as retained in UK law by (SI 2019/758 as amended)

**IDENDEN 40-113 HIGH VELOCITY SOLVENTED DUCT SEALANT**

Revision date 20-Mar-2026

Supersedes date 01-Feb-2024

Revision Number 1.1

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

### 1.1. Product identifier

**Product Name** IDENDEN 40-113 HIGH VELOCITY SOLVENTED DUCT SEALANT

**Pure substance/mixture** Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** Sealant

**Uses advised against** Consumer use; Adhesive, Paint, Aerosol, Adhesives or spray paint shall not be placed on the market containing above substance equal to or greater than 0.1% where supplied to the general public.

**Reason why uses advised against** Restricted substance per REACH Annex XVII

### 1.3. Details of the supplier of the safety data sheet

#### Company Name

Bostik Limited  
Common Rd  
ST16 3EH  
Stafford UK  
Tel: +44 (1785) 27 26 25  
Fax: +44 (1785) 25 72 36

**E-mail address** SDS.box-EU@bostik.com

### 1.4. Emergency telephone number

**United Kingdom** Bostik: +44 (1785) 272650 (9am to 5pm Mon-Fri)  
NHS: 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP (SI 2020/1567 as amended)**

<b>Flammable liquids</b>	Category 2 - (H225)
<b>Skin irritation</b>	Category 2 - (H315)
<b>Reproductive toxicity</b>	Category 2 - (H361d)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H336)
Category 3 Target organ effects: Narcotic effects.	
<b>Specific target organ toxicity (repeated exposure)</b>	Category 2 - (H373)
<b>Hazardous to the aquatic environment - chronic</b>	Category 2 - (H411)

### 2.2. Label elements

Contains Toluene; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Acetone; Hydrocarbons, C6, isoalkanes, <5% n-hexane

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## Signal word

Danger

## Hazard statements

H225 - Highly flammable liquid and vapour.  
H315 - Causes skin irritation.  
H336 - May cause drowsiness or dizziness.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.

## EU Specific Hazard Statements

EUH208 - Contains Rosin & Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW. May produce an allergic reaction

## Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P260 - Do not breathe vapour  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
P391 - Collect spillage  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P501 - Dispose of contents/ container to an approved waste disposal plant

## Special provisions concerning the labelling of certain mixtures

Reserved for industrial and professional use.

## 2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture.

## PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Toluene 108-88-3	10 - <20	01-2119471310 -51-XXXX	203-625-9 (601-021-00-3)	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304)	-	-	-	-

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				Aquatic Chronic 3 (H412) Flam. Liq. 2 (H225)				
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics RR-100219-3	5 - <10	01-2119475515 -33-xxxx	927-510-4	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	-	-	-	-
Acetone 67-64-1	1 - <5	01-2119471330 -49-XXXX	200-662-2 (606-001-00-8)	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) (EUH066)	-	-	-	-
Hydrocarbons, C6, isoalkanes, <5% n-hexane 64742-49-0	1 - <5	01-2119484651 -34-XXXX	931-254-9	STOT SE 3 (H336) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) Flam Liq. 2 (H225) (EUH066)	-	-	-	P
Zinc oxide 1314-13-2	1 - <2.5	01-2119463881 -32-XXXX	215-222-5 (030-013-00-7)	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	-
Bisphenol-A-Epichlorohydrin Epoxy resin <= 700 MW 25068-38-6	0.1 - <0.5	01-2119456619 -26-xxxx	500-033-5	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-	-
n-Hexane contained in UVCB 110-54-3	0.1 - <0.3	-	203-777-6 (601-037-00-0)	Skin Irrit. 2 (H315) Repr. 2 (H361f) STOT SE 3 (H336) STOT RE 1 (H372) Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) Flam. Liq. 2 (H225)	-	-	-	-
Rosin 8050-09-7	0.1 - <0.3	01-2119480418 -32-XXXX	232-475-7 (650-015-00-7)	Skin Sens. 1 (H317)	-	-	-	-

Substances identified by a number starting "RR-" in the CAS-field are substances for which the CAS# is not adopted in EU and we use an internal numbering system to track within our SDS software

Note P - The harmonized classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

**Full text of H- and EUH-phrases: see section 16**

**Substance of unknown or variable composition, complex reaction products or biological material (UVCB)**

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

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Chemical name	EC No. (Index No.)	CAS No.	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Toluene	203-625-9 (601-021-00-3)	108-88-3	5580	12000	30	-	-
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	927-510-4	RR-100219-3	-	-	-	-	-
Acetone	200-662-2 (606-001-00-8)	67-64-1	5800	-	-	-	-
Hydrocarbons, C6, isoalkanes, <5% n-hexane	931-254-9	64742-49-0	16750	3350	-	-	-
Zinc oxide	215-222-5 (030-013-00-7)	1314-13-2	>5000	>2000	>5.7	-	-
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	500-033-5	25068-38-6	-	-	-	-	-
n-Hexane contained in UVCB	203-777-6 (601-037-00-0)	110-54-3	-	-	-	-	-
Rosin	232-475-7 (650-015-00-7)	8050-09-7	-	-	-	-	-

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
n-Hexane contained in UVCB	110-54-3	X

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a doctor.
<b>Self-protection of the first aider</b>	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

<b>Symptoms</b>	Erythema (skin redness). May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
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**Effects of Exposure** May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. May cause damage to organs through prolonged or repeated exposure.

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

**Note to doctors** No information available.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

**Unsuitable extinguishing media** No information available.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Risk of ignition. Vapours may form explosive mixture with air. Most vapours are heavier than air. Vapours may spread along ground and collect in low or confined areas (sewers, basements, tanks).

**Hazardous combustion products** Carbon oxides. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Hydrogen chloride. Zinc oxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.

#### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

**Other information** Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

#### 6.2. Environmental precautions

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert

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absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Eliminate all ignition sources if safe to do so. Residues which cannot be recycled are disposed of as chemical waste. Equipment cleaned with organic solvent, washings are collected and disposed of as solvent waste.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Use personal protective equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up.

**Recommended storage temperature** Keep at temperatures between 5 and 25 °C.

### 7.3. Specific end use(s)

**Specific use(s)**  
Sealant.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	United Kingdom
Toluene 108-88-3	TWA: 50 ppm; TWA: 192 mg/m <sup>3</sup> ; STEL: 100 ppm;	TWA: 50 ppm; TWA: 191 mg/m <sup>3</sup> ; STEL: 100 ppm;

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	STEL: 384 mg/m <sup>3</sup> ; pSk	STEL: 384 mg/m <sup>3</sup> ; pSk
Limestone 1317-65-3	-	TWA: 10 mg/m <sup>3</sup> ; inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> ; inhalable dust STEL: 12 mg/m <sup>3</sup> ; respirable dust
Carbonic acid, calcium salt (1:1) 471-34-1	-	TWA: 10 mg/m <sup>3</sup> ; inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> ; inhalable dust STEL: 12 mg/m <sup>3</sup> ; respirable dust
Aluminum hydroxide (Al(OH) <sub>3</sub> ) 21645-51-2	-	TWA: 10 mg/m <sup>3</sup> ; inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> ; inhalable dust STEL: 12 mg/m <sup>3</sup> ; respirable dust
Acetone 67-64-1	TWA: 500 ppm; TWA: 1210 mg/m <sup>3</sup> ;	TWA: 500 ppm; TWA: 1210 mg/m <sup>3</sup> ; STEL: 1500 ppm; STEL: 3620 mg/m <sup>3</sup> ;
Silica, amorphous 7631-86-9	-	TWA: 6 mg/m <sup>3</sup> ; inhalable dust TWA: 2.4 mg/m <sup>3</sup> ; respirable dust STEL: 18 mg/m <sup>3</sup> ; inhalable dust STEL: 7.2 mg/m <sup>3</sup> ; respirable dust
Silica, amorphous, fumed, crystalline-free 112945-52-5	-	TWA: 6 mg/m <sup>3</sup> ; inhalable dust TWA: 2.4 mg/m <sup>3</sup> ; respirable dust STEL: 18 mg/m <sup>3</sup> ; inhalable dust STEL: 7.2 mg/m <sup>3</sup> ; respirable dust
n-Hexane contained in UVCB 110-54-3	TWA: 20 ppm; TWA: 72 mg/m <sup>3</sup> ;	TWA: 20 ppm; TWA: 72 mg/m <sup>3</sup> ; STEL: 60 ppm; STEL: 216 mg/m <sup>3</sup> ;
Rosin 8050-09-7	-	TWA: 0.05 mg/m <sup>3</sup> ; fume STEL: 0.15 mg/m <sup>3</sup> ; fume poS

Chemical name	European Union	Ireland	United Kingdom
Toluene 108-88-3	-	0.02 mg/L (blood - Toluene prior to last shift of workweek) 0.03 mg/L (urine - Toluene end of shift) 0.3 mg/g Creatinine (urine - o-Cresol end of shift)	-
Acetone 67-64-1	-	50 mg/L (urine - Acetone end of shift)	-
n-Hexane contained in UVCB 110-54-3	-	0.4 mg/L (urine - 2,5-Hexanedione end of shift at end of workweek)	-

**Derived No Effect Level (DNEL)** No information available

Derived No Effect Level (DNEL)			
Toluene (108-88-3)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Dermal	384 mg/kg bw/d	
Long term Systemic health effects Local health effects worker	Inhalation	192 mg/m <sup>3</sup>	
Short term Systemic health effects worker	Inhalation	384 mg/m <sup>3</sup>	
Long term	Inhalation	192 mg/m <sup>3</sup>	

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Local health effects worker Short term Local health effects	Inhalation	384 mg/m <sup>3</sup>	
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**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	2085 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	300 mg/kg bw/d	

**Acetone (67-64-1)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Dermal	186 mg/kg bw/d	
Short term Local health effects worker	Inhalation	2420 mg/m <sup>3</sup>	
Long term Systemic health effects worker	Inhalation	1210 mg/m <sup>3</sup>	

**Hydrocarbons, C6, isoalkanes, <5% n-hexane (64742-49-0)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Systemic health effects Long term	Dermal	13964 mg/kg bw/d	
worker Long term Systemic health effects	Inhalation	2085 mg/m <sup>3</sup>	

**Zinc oxide (1314-13-2)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	5 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	0.5 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	83 mg/kg bw/d	

**Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW (25068-38-6)**

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Dermal	8.33 mg/kg bw/d	
worker Long term	Dermal	8.33 mg/kg bw/d	

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Systemic health effects worker Short term	Inhalation	12.25 mg/kg bw/d	
Systemic health effects			

<b>Rosin (8050-09-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	10 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	2131 mg/kg bw/d	

<b>Derived No Effect Level (DNEL)</b>			
<b>Toluene (108-88-3)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	56.5 mg/m <sup>3</sup>	
Consumer Short term Systemic health effects	Inhalation	226 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	56 mg/m <sup>3</sup>	
Consumer Local health effects Short term	Inhalation	226 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	226 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	8.13 mg/kg bw/d	

<b>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	447 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	149 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	149 mg/kg bw/d	

<b>Acetone (67-64-1)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	200 mg/m <sup>3</sup>	
Consumer	Dermal	62 mg/kg bw/d	

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Long term Systemic health effects			
Consumer Long term Systemic health effects	Oral	62 mg/kg bw/d	

<b>Zinc oxide (1314-13-2)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2.5 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	83 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.83 mg/kg bw/d	

<b>Bisphenol-A-Epichlorhydrin Epoxy resin &lt;= 700 MW (25068-38-6)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Short term Systemic health effects	Dermal	3.571 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	0.75 mg/kg bw/d	
Consumer Long term Systemic health effects	Dermal	3.571 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.75 mg/kg bw/d	

<b>Rosin (8050-09-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Dermal	1065 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	1065 mg/kg bw/d	

## Predicted No Effect Concentration (PNEC)

<b>Predicted No Effect Concentration (PNEC)</b>	
<b>Toluene (108-88-3)</b>	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.68 mg/l
Marine water	0.68 mg/l
Sewage treatment plant	13.61 mg/l
Freshwater sediment	16.39 mg/kg dry weight
Marine sediment	16.39 mg/kg dry weight
Soil	2.89 mg/kg dry weight

## **Acetone (67-64-1)**

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Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	10.6 mg/l
Freshwater - intermittent	21 mg/l
Marine water	1.06 mg/l
Microorganisms in sewage treatment	100 mg/l
Freshwater sediment	30.4 mg/kg dry weight
Marine water	3.04 mg/kg dry weight
Soil	29.5 mg/kg dry weight

Zinc oxide (1314-13-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.0206 mg/l
Marine water	0.0061 mg/l
Freshwater sediment	235.6 mg/kg dry weight
Marine sediment	113 mg/kg dry weight
Soil	106.8 mg/kg dry weight
Microorganisms in sewage treatment	0.1 mg/l

Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW (25068-38-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.006 mg/l
Marine water	0.0006 mg/l
Freshwater sediment	0.996 mg/l
Marine sediment	0.0996 mg/l
Soil	0.196 mg/l

Rosin (8050-09-7)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.002 mg/l
Marine water	0 mg/l
Sewage treatment plant	1000 mg/l
Freshwater sediment	0.007 mg/l
Marine sediment	0.001 mg/l

## 8.2. Exposure controls

**Engineering controls** Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.

### Personal protective equipment

- Eye/face protection** Tight sealing safety goggles. Face protection shield. Eye protection must conform to standard EN 166.
- Hand protection** Wear protective gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature.
- Skin and body protection** Antistatic footwear. Wear fire/flame resistant/retardant clothing. Suitable protective clothing.
- Respiratory protection** In case of inadequate ventilation wear respiratory protection. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
- Recommended filter type:** Organic gases and vapours filter conforming to EN 14387.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Appearance</b>	Paste
<b>Colour</b>	Grey
<b>Odour</b>	Characteristic.

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<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	> 48 °C	
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	-30 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	Not applicable.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	> 700 mm <sup>2</sup> /s	None known
Dynamic viscosity	No data available	
None known		<b>Water solubility</b> Insoluble in water.
None known		<b>Solubility(ies)</b> No data available
None known		<b>Partition coefficient</b> No data available
None known		<b>Vapour pressure</b> <110 kPa
None known		<b>Relative density</b> No data available
None known		<b>Bulk density</b> No data available
		<b>Liquid Density</b> 1.3 g/cm <sup>3</sup>
		<b>Relative vapour density</b> No data available
None known		<b>Particle characteristics</b>
		<b>Particle Size</b> No information available
		<b>Particle Size Distribution</b> No information available

## 9.2. Other information

**Solid content (%)** No information available  
**VOC content** >= 408 g/L

European directive n°2010/75/UE

### **9.2.1. Information with regards to physical hazard classes**

Not applicable

### **9.2.2. Other safety characteristics**

No information available

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

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## 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

## 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

## 10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Carbon oxides. Hydrogen chloride.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. May cause drowsiness or dizziness.
<b>Eye contact</b>	Based on available data, the classification criteria are not met.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

#### Acute toxicity

#### Numerical measures of toxicity

The following ATE values have been calculated for the mixture

<b>ATEmix (oral)</b>	92,766.20 mg/kg
<b>ATEmix (dermal)</b>	>2000 mg/kg
<b>ATEmix (inhalation-gas)</b>	>20000 ppm
<b>ATEmix (inhalation-dust/mist)</b>	>5 mg/L
<b>ATEmix (inhalation-vapour)</b>	>20 mg/L

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene	=5580 mg/kg (Rattus)	= 12000 mg/kg (Oryctolagus cuniculus)	>20 mg/L (Rattus) 4 h
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	LD50 >5840 mg/kg Rat	LD50 >2920 mg/kg (Rattus)	LC50 >23.3 mg/L (4h)(Rat, vapour) (OECD 403)
Acetone	=5800 mg/kg (Rattus) 3000 mg/Kg (mouse)	>15800 mg/Kg (Rattus)	=79 mg/l(Rattus) 4 h

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Hydrocarbons, C6, isoalkanes, <5% n-hexane	>16750 mg/Kg (Rattus)	>3350 mg/Kg (Oryctolagus cuniculus) OECD 402	259354 mg/m <sup>3</sup> (vapour) (rat OECD 403)
Zinc oxide	>5000 mg/kg (Rattus)	LD50 >2000 mg/Kg (Rattus) (OECD 402)	LC50 (4h) >5.7 mg/l
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	LD50 (Rattus) > 2000 mg/kg OECD 420	>2000 mg/Kg (Rattus)	-
n-Hexane contained in UVCB	= 25 g/kg ( Rat )	= 3000 mg/kg ( Rabbit )	= 48000 ppm ( Rat ) 4 h
Rosin	>2000 mg/Kg (Rattus)	> 2500 mg/kg (Oryctolagus cuniculus)	=1.5 mg/L (Rattus) 4 h

**Substance of unknown or variable composition, complex reaction products or biological material (UVCB)**

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Toluene (108-88-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.4	Rabbit	Dermal			Irritant

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

Acetone (67-64-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			irritant

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Toluene (108-88-3)			
Acetone (67-64-1)			
Method	Species	Exposure route	Results
GPMT - Guinea pig maximisation test	Guinea pig	Dermal	Not a skin sensitiser

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

Component Information		
Toluene (108-88-3)		
Method	Species	Results
Regulation (EC) No. 440/2008, Annex, B.13/14 (Ames test)	Salmonella typhimurium	Not mutagenic
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes	Mouse	Not mutagenic

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

**Reproductive toxicity** Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. Suspected of damaging fertility or the unborn child.

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The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Toluene	Repr. 2
n-Hexane contained in UVCB	Repr. 2

Toluene (108-88-3)		
Method	Species	Results
OECD 407	in vivo	Reproductive toxicant

**STOT - single exposure** May cause drowsiness or dizziness.

Acetone (67-64-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
Experiences made in practice					Narcotic effects

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

Toluene (108-88-3)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
Regulation (EC) No. 440/2008, Annex, B.26	Rat, male, female	Oral		91 days	NOAEL: 625 mg/kg
OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies	Rat, male, female	Inhalation, vapour			NOAEL: 1.131 mg/l

Acetone (67-64-1)					
Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 408: Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat	Oral	200-3400 mg/kg bw/d	91 days	No Observed Adverse Effect Level LOAEL 1700 mg/kg bw/d
Not specified	Rat	Inhalation	19000 ppm	14, 28, 56 days	NOAEC 19000 ppm No Observed Adverse Effect Level

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

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** Based on available data, the classification criteria are not met.

### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

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## Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Toluene 108-88-3	EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static)	EC50 = 19.7 mg/L 30 min	EC50: =11.5mg/L (48h, Daphnia magna) EC50: 5.46 - 9.83mg/L (48h, Daphnia magna)		
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics RR-100219-3	ErL50 (72h) = 10-30 mg/L (Pseudokirchneriella subcapitata)	LL50 (96h) >13.4 mg/L (Oncorhynchus mykiss) OECD 203	-	EL50 (48h) = 3.0 mg/L (Daphnia magna)		
Acetone 67-64-1	-	LC50 96 h 4.74 - 6.33 mL/L (Oncorhynchus mykiss)	EC50 = 14500 mg/L 15 min	EC50 48 h 10294 - 17704 mg/L (Daphnia magna Static)		
Hydrocarbons, C6, isoalkanes, <5% n-hexane 64742-49-0	EL50 (72h) = 13.6 mg/l (Pseudokirchneriella subcapitata)	LL50 (96h) = 18.27 mg/l (Oncorhynchus mykiss)	-	EL50 (48h)= 31.9 mg/l (Daphnia magna)		
Zinc oxide 1314-13-2	LC 50 (72Hr) 0.136 mg/L	LC50 (96h) =0.7 mg/L (Danio rerio)	-	LC 50 (48Hr) =0.5 mg/l (Ceriodaphnia dubia)	1	1
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW 25068-38-6	EC50 (72h) = 9.4 mg/L (Scenedesmus capricornutum) EPA-660/3-75-009	1.2 mg/l 96Hr (Oncorhynchus mykiss)	-	2.7 mg/l 48hr Daphia Magna		
n-Hexane contained in UVCB 110-54-3	-	LC50: 2.1 - 2.98mg/L (96h, Pimephales promelas)	-	-		
Rosin 8050-09-7	EC50: =400mg/L (72h, Desmodesmus subspicatus)	LC50 (96h) >10mg/L (Danio rerio)	EC50 = 31.5 mg/L 30 min	EC50 48 h >100 mg/L (Daphnia magna)		

**Substance of unknown or variable composition, complex reaction products or biological material (UVCB)**

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics (RR-100219-3)			
Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	98%	Readily biodegradable

Acetone (67-64-1)

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Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	biodegradation	91 % Readily biodegradable

Zinc oxide (1314-13-2)			
Method	Exposure time	Value	Results
			The methods for determining biodegradability are not applicable to inorganic substances

## 12.3. Bioaccumulative potential

### Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
Toluene	2.73
Acetone	-0.24
Hydrocarbons, C6, isoalkanes, <5% n-hexane	3.6
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	3.26
n-Hexane contained in UVCB	4
Rosin	7.7

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** Based on available data, the classification criteria are not met.

Chemical name	PBT and vPvB assessment
Toluene	Not PBT/vPvB
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	Not PBT/vPvB
Acetone	Not PBT/vPvB
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Not PBT/vPvB
Zinc oxide	Not PBT/vPvB
Bisphenol-A-Epichlorhydrin Epoxy resin <= 700 MW	Not PBT/vPvB
n-Hexane contained in UVCB	Not PBT/vPvB
Rosin	Not PBT/vPvB

## 12.6. Endocrine disrupting properties Endocrine disrupting properties

**Endocrine disruption for the environment** Based on available data, the classification criteria are not met.

## 12.7. Other adverse effects Other adverse effects

**Other adverse effects** No information available.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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<b>Waste from residues/unused products</b>	Should not be released into the environment. Uncured product should be disposed of as hazardous waste. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.
<b>Contaminated packaging</b>	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Handle contaminated packages in the same way as the product itself.
<b>Waste codes / waste designations according to EWC</b>	15 01 10*: Packaging containing residues of or contaminated by dangerous substances. 16 03 03* inorganic wastes containing hazardous substances. 16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.
<b>European Waste Catalogue</b>	08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances 15 01 10*: Packaging containing residues of or contaminated by dangerous substances
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information

**Note:** The information shown here, may not always agree with the bill of lading shipping description for the material. The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition).

### Land transport (ADR/RID)

14.1 UN number or ID number	UN1133
14.2 UN proper shipping name	Adhesives
14.3 Transport hazard class(es)	3
Labels	3
14.4 Packing group	II
Description	UN1133, Adhesives, 3, II, (D/E), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	640D
Classification code	F1
Tunnel restriction code	(D/E)
Limited quantity (LQ)	5 L
ADR Hazard Id (Kemmler Number)	33

### IMDG

14.1 UN number or ID number	UN1133
14.2 UN proper shipping name	Adhesives
14.3 Transport hazard class(es)	3
14.4 Packing group	II
Description	UN1133, Adhesives, 3, II, (-30°C c.c.), Marine pollutant
14.5 Marine pollutant	P
14.6 Special precautions for user	
Special Provisions	None
Limited Quantity (LQ)	5 L
EmS-No.	F-E, S-D
14.7 Maritime transport in bulk according to IMO instruments	
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN1133
14.2 UN proper shipping name	Adhesives

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14.3 Transport hazard class(es) 3  
14.4 Packing group II  
Description UN1133, Adhesives, 3, II  
14.5 Environmental hazards Yes  
14.6 Special precautions for user  
Special Provisions A3  
Limited quantity (LQ) 1 L  
ERG Code 3L

## SECTION 15: Regulatory information

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

#### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

#### Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

##### SVHC: Substances of Very High Concern for Authorisation:

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)  $\geq 0.1\%$

Chemical name	CAS No.
n-Hexane contained in UVCB	110-54-3

##### EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No.	Restricted substance per REACH Annex XVII
Toluene	108-88-3	48.

**48** . Reserved for industrial and professional use. Adhesives or spray paint shall not be placed on the market containing above substance equal to or greater than 0.1% where supplied to the general public.

##### Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

##### Export Notification requirements

This product does not contain substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals above the level that triggers a labeling obligation under Regulation (EC) No 1272/2008. Therefore this product is not subject to prior informed consent notification.

##### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

##### Named dangerous substances per Seveso Directive (2012/18/EU)

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Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Hydrocarbons, C6, isoalkanes, <5% n-hexane - 64742-49-0		25000

## Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable

## Persistent Organic Pollutants

Not applicable

## REGULATION (EU) 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20 June 2019 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. This product contains:

Chemical name	Reporting of suspicious transactions, disappearances and thefts	Restricted	Registration
Acetone - 67-64-1	Regulated		

## Regulations on drug precursors (EC) No 111/2005 (export) and 273/2004 (internal trade)

This product does not contain any substance(s) which are regulated pursuant to the EU regulations on drug precursors [(EC) No. 111/2005 and (EC) No. 273/2004] above levels that can be easily used or extracted by readily applicable or economically viable means.

## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of any hazard and/or precautionary statements referred to under Sections 2-15

EUH066 - Repeated exposure may cause skin dryness or cracking  
H225 - Highly flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H361d - Suspected of damaging the unborn child  
H361f - Suspected of damaging fertility  
H372 - Causes damage to organs through prolonged or repeated exposure  
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  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

### Notes relating to the identification, classification and labelling of substances

Note P - The harmonized classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0.1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation

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shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply

## Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
Sk*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

## Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs  
**Revision date** 20-Mar-2026

## Indication of changes

**Revision Note** SDS sections updated, 2, 3, 5, 6, 7, 8, 15.

**Training Advice** Provide adequate information, instruction, and training for operator

**Further information** No information available

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**