



## SAFETY DATA SHEET ARBOSIL 1090

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

#### 1.1. Product identifier

**Product name** ARBOSIL 1090

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

**Identified uses** Neutral cure building sealant.

**Uses advised against** Restricted to professional users. This product is not intended to be used by the general public.

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

**Supplier** Adshead Ratcliffe & Co. Ltd.  
Derby Road, Belper  
Derbyshire.  
DE56 1WJ  
T: (+44) 01773 826661  
F: (+44) 01773 821215  
E: sds.carlisle@ccm-europe.com

#### 1.4. Emergency telephone number

**Emergency telephone** NPIS (National Poisons Information Service): 0344 892 0111 (for medical professionals only).  
For medical advice, members of the public should contact NHS 111 in England: 111; NHS 24 in Scotland: 111; NHS Direct in Wales: 111 or 0845 4647. In Northern Ireland: contact your local GP or pharmacist.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (SI 2019 No. 720)

**Physical hazards** Not Classified

**Health hazards** Eye Dam. 1 - H318 Skin Sens. 1B - H317 Repr. 1B - H360D

**Environmental hazards** Not Classified

#### 2.2. Label elements

##### Hazard pictograms



**Signal word**

Danger

##### Hazard statements

H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H360D May damage the unborn child.

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<b>Precautionary statements</b>	<p>P201 Obtain special instructions before use.</p> <p>P261 Avoid breathing vapours.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p>
<b>Supplemental label information</b>	The following applies to light colours of this product: EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
<b>Contains</b>	Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium, N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide], Dioctyltin dilaurate

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Silicon dioxide, chemically prepared</b>	<b>3 - 7%</b>
CAS number: 112945-52-5                      EC number: 231-545-4	
<b>Classification</b> Not Classified	
<b>Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium</b>	<b>&lt; 5%</b>
CAS number: 83877-91-2                      EC number: 281-161-6	
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	
<b>N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]</b>	<b>&lt; 5%</b>
CAS number: 16230-35-6                      EC number: 240-354-5	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1B - H317	

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<b>Diocetyl tin dilaurate</b>	<b>&lt; 1%</b>
CAS number: 3648-18-8	EC number: 222-883-3
<b>Classification</b>	
Repr. 1B - H360D	
STOT SE 2 - H371	
STOT RE 1 - H372	
<b>Toluene</b>	<b>&lt; 0.1%</b>
CAS number: 108-88-3	EC number: 203-625-9
<b>Classification</b>	
Flam. Liq. 2 - H225	
Skin Irrit. 2 - H315	
Repr. 2 - H361d	
STOT SE 3 - H336	
STOT RE 2 - H373	
Asp. Tox. 1 - H304	
Aquatic Chronic 3 - H412	

The full text for all hazard statements is displayed in Section 16.

**Composition comments** Light colours of this product may contain at least 1% of titanium dioxide but less than 1% of all particles have a diameter  $\leq 10 \mu\text{m}$  therefore the classification Carc. 2; H351 does not apply. The labelling statement, EUH212 ('Warning! Hazardous respirable dust may be formed when used. Do not breathe dust') applies however considering the form and use of the product it is unlikely that respirable dust will be generated.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	In all cases of doubt, or if symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	If inhalation causes adverse effects, remove to fresh air.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Take off contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

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

<b>General information</b>	May damage the unborn child.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause an allergic skin reaction. Allergic rash. Itchiness. Redness.
<b>Eye contact</b>	May cause serious eye damage.

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

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**Notes for the doctor**                      Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**    Water spray, fog or mist. Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media**                      Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards**                                      No unusual fire or explosion hazards noted.

**Hazardous combustion products**                      Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### 5.3. Advice for firefighters

**Protective actions during firefighting**                      No specific firefighting precautions known.

**Special protective equipment for firefighters**    Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

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

**Personal precautions**                                      Avoid inhalation of vapours. Avoid contact with skin and eyes. For personal protection, see Section 8. Use suitable respiratory protection if ventilation is inadequate.

#### 6.2. Environmental precautions

**Environmental precautions**                      Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up**                                      Collect and place in suitable waste disposal containers and seal securely. Clean any slippery coating that remains using a detergent / soap solution or other biodegradable cleaner.

#### 6.4. Reference to other sections

**Reference to other sections**                      For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions**                                      Avoid spilling. Avoid contact with skin and eyes. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wear protective clothing as described in Section 8 of this safety data sheet.

**Advice on general occupational hygiene**                      Good personal hygiene procedures should be implemented. Wash hands thoroughly after handling.

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

**Storage precautions**                                      Store in tightly-closed, original container in a dry, cool and well-ventilated place.

#### 7.3. Specific end use(s)

**Specific end use(s)**                                      The identified uses for this product are detailed in Section 1.2.

**Usage description**                                      Gunnable sealant.

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### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **Silicon dioxide, chemically prepared**

Silica, amorphous - Inhalable dust: Long-term exposure limit (8-hour TWA) WEL: 6 mg/m<sup>3</sup>, Respirable dust: Long-term exposure limit (8-hour TWA) WEL: 2.4 mg/m<sup>3</sup>

##### **Titanium dioxide**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

##### **Diocetyl tin dilaurate**

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 0.2 mg/m<sup>3</sup>

as Sn

Sk

##### **Toluene**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

#### Bis(ethyl acetoacetato-O<sup>1</sup>,O<sup>3</sup>)bis(2-methylpropan-1-olato)titanium (CAS: 83877-91-2)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 254 mg/m <sup>3</sup> General population - Inhalation; Long term systemic effects: 303 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 220 mg/kg/day General population - Oral; Long term systemic effects: 22 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.1 mg/l - marine water; 0.01 mg/l - Intermittent release; 1 mg/l - STP; 28 mg/l - Sediment (Freshwater); 0.0816 mg/kg - Sediment (Marinewater); 0.0082 mg/kg - Soil; 0.019 mg/kg

#### N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide] (CAS: 16230-35-6)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 1.76 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 0.5 mg/kg/day
<b>PNEC</b>	Fresh water; 1 mg/l Fresh water, Intermittent release; 1 mg/l marine water; 0.01 mg/l marine water, Intermittent release; 0.1 mg/l STP; 10 mg/l Sediment (Freshwater); 15.313 mg/kg Sediment (Marinewater); 1.531 mg/kg Soil; 1.78 mg/kg

#### Diocetyl tin dilaurate (CAS: 3648-18-8)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 0.004 mg/m <sup>3</sup>
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### PNEC

Fresh water; 0.002 µg/l  
 Fresh water, Intermittent release; 0.018 µg/l  
 marine water; 0.0002 µg/l  
 STP; 100 mg/l  
 Sediment (Freshwater); 0.028 mg/kg  
 Sediment (Marinewater); 0.003 mg/kg  
 Soil; 0.006 mg/kg  
 Oral (food); 0.02 mg/kg

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Eye/face protection

Chemical splash goggles or face shield. Personal protective equipment that provides appropriate eye and face protection should be worn.

#### Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation.

#### Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Provide eyewash station.

#### Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated.

#### Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

### SECTION 9: Physical and chemical properties

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

Appearance	Uncured -paste. Cured - rubber.
Colour	Various colours.
Odour	Slight.
Odour threshold	No information available.
pH	Technically not feasible.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	Not applicable.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.

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<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	1.18 - 1.20 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	As paste: 450°C
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	5,000 - 7,000 P @ 20°C
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** See the other subsections of this section for further details.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** None at ambient temperatures. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** There are no data available on this product.

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 14,076.58

#### Acute toxicity - dermal

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<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Based on available data the classification criteria are not met.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Eye Dam. 1 Causes serious eye damage.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	Based on available data the classification criteria are not met.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Skin Sens. 1B May cause an allergic skin reaction.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Based on available data the classification criteria are not met.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity - development</b>	Repr. 1B - H360D May damage the unborn child.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Not relevant, due to the form of the product.
<b><u>General information</u></b>	
<b>Inhalation</b>	Avoid contact during pregnancy/while nursing.
<b>Inhalation</b>	Not relevant at normal room temperatures. When heated, toxic vapours may be formed.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	May cause serious eye damage.
<b>Acute and chronic health hazards</b>	May damage the unborn child.

### Toxicological information on ingredients.

#### Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> > 2000 mg/kg, Oral, Rat

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC50 18180 mg/m<sup>3</sup>, Inhalation, Rat Read-across data.



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### N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 500.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Harmful if swallowed.

**ATE oral (mg/kg)** 500.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

#### Skin corrosion/irritation

**Skin corrosion/irritation** Causes skin irritation.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

#### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction. Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

### Diocetyl tin dilaurate

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rat

#### Reproductive toxicity

**Reproductive toxicity - development** May damage the unborn child.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause damage to organs (Immune system).

**Target organs** Immune system

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 0.3 mg/kg/day, Oral, Rat

**Target organs** Immune system

## SECTION 12: Ecological information

**Ecotoxicity** In cross-linked state not soluble in water. Easily separable from water by filtration.

### 12.1. Toxicity

**Toxicity** There are no data for the product.

### Acute aquatic toxicity

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

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### Chronic aquatic toxicity

#### Summary

Based on available data the classification criteria are not met.

### Ecological information on ingredients.

#### Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium

##### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 1460 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >= 100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	TT (Toxicity threshold), 16 hours: 280 mg/l, Pseudomonas putida

#### N,N'-(ethoxymethylsilylene)bis[N-methylbenzamide]

##### Acute aquatic toxicity

Acute toxicity - fish	EC <sub>50</sub> , 96 hours: >100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: >100 mg/l, Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

**Persistence and degradability** Silicone content: biologically not degradable.

### Ecological information on ingredients.

#### Bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1-olato)titanium

<b>Biodegradation</b>	Expected to be readily biodegradable. Water - Degradation 44%: 23 hours Read-across data.
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### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

**Partition coefficient** No information available.

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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<b>General information</b>	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
<b>Disposal methods</b>	This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with national regulations. Empty containers or liners may retain some product residues and hence be potentially hazardous.
<b>Waste class</b>	Recommended EWC Code 08 04 09* HP4 Irritant HP10 Toxic for reproduction HP13 Sensitising

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

Not applicable.

#### 14.2. UN proper shipping name

Not applicable.

#### 14.3. Transport hazard class(es)

No transport warning sign required.

#### 14.4. Packing group

Not applicable.

#### 14.5. Environmental hazards

##### **Environmentally hazardous substance/marine pollutant**

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

**Transport in bulk according to** Not applicable.

**Annex II of MARPOL 73/78 and the IBC Code**

### SECTION 15: Regulatory information

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

##### **National regulations**

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).  
 The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).  
 Health and Safety at Work etc. Act 1974 (as amended).  
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
 The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).

##### **Guidance**

Workplace Exposure Limits EH40.

##### **Health and environmental listings**

Diocetyl tin dilaurate is on the EU Candidate List of Substances of Very High Concern (SVHCs) for Authorisation.

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Restrictions (SI 2020 No. 1577 Annex XVII)      Entry number: 30

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms used in the safety data sheet

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ATE: Acute Toxicity Estimate.  
 BCF: Bioconcentration Factor.  
 CAS: Chemical Abstracts Service.  
 DNEL: Derived No Effect Level.  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 GHS: Globally Harmonized System.  
 IATA: International Air Transport Association.  
 IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).  
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG: International Maritime Dangerous Goods.  
 Kow: Octanol-water partition coefficient.  
 LC50: Lethal Concentration to 50 % of a test population.  
 LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 LOAEC: Lowest Observed Adverse Effect Concentration.  
 LOAEL: Lowest Observed Adverse Effect Level.  
 LOEC: Lowest Observed Effect Concentration.  
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.  
 NOAEC: No Observed Adverse Effect Concentration.  
 NOAEL: No Observed Adverse Effect Level.  
 NOEC: No Observed Effect Concentration.  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 PNEC: Predicted No Effect Concentration.  
 REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 SVHC: Substances of Very High Concern.  
 vPvB: Very Persistent and Very Bioaccumulative.

#### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)  
 Asp. Tox. = Aspiration hazard  
 Flam. Liq. = Flammable liquid  
 Eye Dam. = Serious eye damage  
 Repr. = Reproductive toxicity  
 Skin Irrit. = Skin irritation  
 STOT RE = Specific target organ toxicity-repeated exposure  
 STOT SE = Specific target organ toxicity-single exposure  
 Skin Sens. = Skin sensitisation

#### Key literature references and sources for data

SDS from supplier. Source: European Chemicals Agency, <http://echa.europa.eu/>

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<b>Classification procedures according to SI 2019 No. 720</b>	Skin Sens. 1B - H317, Eye Dam. 1 - H318, Repr. 1B - H360D: Calculation method.
<b>Training advice</b>	Only trained personnel should use this material.
<b>Revision comments</b>	Revised sections: 2, 3, 8, 11, 15, 16.
<b>Revision date</b>	14/07/2022
<b>Revision</b>	3
<b>Supersedes date</b>	09/02/2022
<b>SDS number</b>	10165
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H360D May damage the unborn child. H361d Suspected of damaging the unborn child. H371 May cause damage to organs (Immune system). H372 Causes damage to organs (Immune system) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.