



## SAFETY DATA SHEET ARBOKOL 2150 BASE

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

#### 1.1. Product identifier

**Product name** ARBOKOL 2150 BASE

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

**Identified uses** Base component of: A two-part 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 (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Aquatic Chronic 3 - H412

#### 2.2. Label elements

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.  
**Precautionary statements** P273 Avoid release to the environment.  
P501 Dispose of contents/ container in accordance with national regulations.  
**Supplemental label information** EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

#### 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

## ARBOKOL 2150 BASE

<b>Liquid polysulfide polymer. Mercaptan terminated liquid polymer of diethyleneoxymethane with Sx linkages.</b>	<b>25 - 50%</b>
CAS number: 68611-50-7	
<b>Classification</b> Aquatic Chronic 3 - H412	
<b>1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters</b>	<b>10 - &lt;20%</b>
CAS number: 68515-40-2	
EC number: 271-082-5	
REACH registration number: 01-2119519234-46-XXXX	
<b>Classification</b> Not Classified	
<b>Titanium dioxide</b>	<b>10 - &lt;20%</b>
CAS number: 13463-67-7	
EC number: 236-675-5	
REACH registration number: 01-2119489379-17-XXXX	
<b>Classification</b> Carc. 2 - H351	
<b>Silicon dioxide, chemically prepared</b>	<b>&lt;2%</b>
CAS number: 112945-52-5	
EC number: 231-545-4	
REACH registration number: 01-2119379499-16-XXXX	
<b>Classification</b> Not Classified	
<b>Formaldehyde</b>	<b>&lt; 0.1%</b>
CAS number: 50-00-0	
EC number: 200-001-8	
<b>Classification</b> Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 3 - H335	

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<b>Phenol</b>		<b>&lt; 0.1%</b>
CAS number: 108-95-2	EC number: 203-632-7	
<b>Classification</b>		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Muta. 2 - H341		
STOT RE 2 - H373		
Aquatic Chronic 2 - H411		
<b>Methanol</b>		<b>&lt; 0.1%</b>
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
<b>Classification</b>		
Flam. Liq. 2 - H225		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		

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

**Composition comments** Polysulphide polymer, with mineral fillers, plasticiser and auxiliaries. This product contains > 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>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.
<b>Skin contact</b>	Wipe off excess material with cloth or paper. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting.

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<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	No specific recommendations.
<b>Specific treatments</b>	No specific recommendations.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide or dry powder. Water spray.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

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

<b>Specific hazards</b>	Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Toxic gases or vapours. Sulphurous gases (SO <sub>x</sub> ).

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes.
<b>Special protective equipment for firefighters</b>	Wear self contained breathing apparatus.

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

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

<b>Personal precautions</b>	Provide adequate ventilation. Avoid contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet. Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Avoid discharge into drains or watercourses or onto the ground.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.
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### **6.4. Reference to other sections**

<b>Reference to other sections</b>	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.
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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

## ARBOKOL 2150 BASE

**Usage precautions** Avoid contact with skin and eyes. Avoid spilling. Good personal hygiene procedures should be implemented. Avoid release to the environment. Contaminated work clothing should not be allowed out of the workplace. For personal protection, see Section 8. Persons susceptible to allergic reactions should not handle this product.

### 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.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters**

Similar phthalates (di-isooctyl phthalate, di-isononyl phthalate, di-isodecyl phthalate: Long-term exposure limit (8-hour TWA): WEL 5 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

##### **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>

##### **Formaldehyde**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m<sup>3</sup>

Carc

##### **Phenol**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m<sup>3</sup>

Sk

##### **Methanol**

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit.

Carc = Capable of causing cancer and/or heritable genetic damage.

Sk = Can be absorbed through the skin.

#### 1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters (CAS: 68515-40-2)

**DNEL** Workers - Inhalation; Long term systemic effects: 1.32 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 2.8 mg/kg/day

#### Formaldehyde (CAS: 50-00-0)

**DNEL** Workers - Inhalation; Long term systemic effects: 9 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 0.375 mg/m<sup>3</sup>  
Workers - Inhalation; Short term local effects: 0.75 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 240 mg/kg/day  
Workers - Dermal; Long term local effects: 37 µg/cm<sup>2</sup>

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### Phenol (CAS: 108-95-2)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 8 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 16 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 1.23 mg/kg/day
<b>PNEC</b>	Fresh water; 0.008 mg/l Fresh water, Intermittent release; 0.031 mg/l marine water; 0.001 mg/l STP; 2.1 mg/l Sediment (Freshwater); 0.091 mg/kg Sediment (Marinewater); 0.009 mg/kg Soil; 0.136 mg/kg

### Allyl 2,3-epoxypropyl ether (CAS: 106-92-3)

<b>DNEL</b>	- Inhalation; Long term systemic effects: 0.954 mg/m <sup>3</sup> - Inhalation; Short term systemic effects: 896 mg/m <sup>3</sup> - Inhalation; Short term local effects: 8.26 mg/m <sup>3</sup> - Dermal; Long term systemic effects: 0.19 mg/kg/day - Dermal; Short term systemic effects: 127.5 mg/kg/day
<b>PNEC</b>	Fresh water; 0.036 mg/l marine water; 3.6 µg/l STP; 0.15 mg/l Sediment (Freshwater); 0.042 mg/kg Sediment (Marinewater); 0.004 mg/kg Soil; 5 µg/kg

### Methanol (CAS: 67-56-1)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 130 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 130 mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 130 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 130 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 20 mg/kg/day Workers - Dermal; Short term systemic effects: 20 mg/kg/day
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## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation.

### Eye/face protection

Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

### 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, gloves should comply with European Standard EN374.

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<b>Hygiene measures</b>	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Paste.	
<b>Colour</b>	Off-white.	
<b>Odour</b>	Mercaptan	
<b>Odour threshold</b>	No information available.	
<b>pH</b>	No information available.	
<b>Melting point</b>	No information available.	
<b>Initial boiling point and range</b>	No information available.	
<b>Flash point</b>	Not applicable.	
<b>Evaporation rate</b>	No information available.	
<b>Evaporation factor</b>	No information available.	
<b>Flammability (solid, gas)</b>	No information available.	
<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>	~ 1.55 @ 20°C	
<b>Solubility(ies)</b>	Not applicable. @ °C	
<b>Partition coefficient</b>	No information available.	
<b>Auto-ignition temperature</b>	No information available.	
<b>Decomposition Temperature</b>	Liquid polysulphide polymer decomposes at temperatures above 150 C.	
<b>Viscosity</b>	12,000 - 15,000 P @ 20°C	
<b>Explosive properties</b>	Not considered to be explosive.	
<b>Oxidising properties</b>	Oxidising properties Not applicable.	Not applicable. Explosive properties

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
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#### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not applicable. Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time. Liquid polysulphide polymer decomposes at temperatures above 150 C

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Strong alkalis. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Sulphur dioxide. Hydrogen sulphide (H<sub>2</sub>S). Formaldehyde. Mercaptan.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** For this endpoint no toxicological data is available for the whole product.

#### Acute toxicity - oral

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

**Notes (oral LD<sub>50</sub>)** Polysulphide polymer >5000 mg/kg (oral rat)

#### Acute toxicity - dermal

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

**Notes (dermal LD<sub>50</sub>)** Polysulphide polymer >7800 mg/kg (dermal rat)

#### Acute toxicity - inhalation

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

#### Skin corrosion/irritation

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

#### Serious eye damage/irritation

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

#### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Reproductive toxicity

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

**Inhalation** No specific health hazards known.



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<b>Ingestion</b>	May cause discomfort.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	May cause temporary eye irritation. Will not injure eye tissue.

### Toxicological information on ingredients.

#### Liquid polysulfide polymer. Mercaptan terminated liquid polymer of diethyleneoxymethane with Sx linkages.

##### 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, Rabbit

#### 1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 15,800.0

Species Rat

ATE oral (mg/kg) 15,800.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 7,940.0

Species Rabbit

ATE dermal (mg/kg) 7,940.0

#### Titanium dioxide

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 10,000.0

Species Rat

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> >10000 mg/kg, Oral, Rat

ATE oral (mg/kg) 10,000.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 10,000.0

Species Rabbit

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> >10000 mg/kg, Dermal, Rabbit

ATE dermal (mg/kg) 10,000.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l) 6.82

Species Rat

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<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50 >6.82 mg/l, Inhalation, Rat
<b>ATE inhalation (dusts/mists mg/l)</b>	6.82
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Suspected of causing cancer by inhalation.
<b>Target organ for carcinogenicity</b>	Lungs

### Silicon dioxide, chemically prepared

#### Acute toxicity - oral

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 mg/kg, Oral, Rat
<b>ATE oral (mg/kg)</b>	5,000.0

#### Acute toxicity - dermal

<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	LD <sub>50</sub> >5000 mg/kg, Dermal, Rabbit
<b>ATE dermal (mg/kg)</b>	5,000.0

### Formaldehyde

#### Acute toxicity - oral

<b>Notes (oral LD<sub>50</sub>)</b>	Toxic if swallowed.
<b>ATE oral (mg/kg)</b>	100.0

#### Acute toxicity - dermal

<b>Notes (dermal LD<sub>50</sub>)</b>	Toxic in contact with skin.
<b>ATE dermal (mg/kg)</b>	300.0

#### Acute toxicity - inhalation

<b>Notes (inhalation LC<sub>50</sub>)</b>	Toxic if inhaled.
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#### Skin corrosion/irritation

<b>Animal data</b>	Causes severe burns. Rabbit
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#### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Causes serious eye damage. Rabbit
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#### Skin sensitisation

<b>Skin sensitisation</b>	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
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#### Germ cell mutagenicity

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**Summary** Suspected of causing genetic defects.

### Carcinogenicity

**Carcinogenicity** May cause cancer.

**IARC carcinogenicity** IARC Group 1 Carcinogenic to humans.

### Phenol

#### Acute toxicity - oral

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

**ATE oral (mg/kg)** 100.0

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Toxic in contact with skin.

**ATE dermal (mg/kg)** 300.0

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 0.9

**Species** Rat

**Notes (inhalation LC<sub>50</sub>)** Toxic if inhaled.

**ATE inhalation (dusts/mists mg/l)** 0.9

#### Skin corrosion/irritation

**Animal data** Causes severe burns. Rabbit

#### Serious eye damage/irritation

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

#### Germ cell mutagenicity

**Summary** Suspected of causing genetic defects.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause damage to organs (Kidneys, Liver, Nervous system, Skin) through prolonged or repeated exposure.

### Methanol

#### Acute toxicity - oral

**Summary** Toxic if swallowed.

**ATE oral (mg/kg)** 100.0

#### Acute toxicity - dermal

**Summary** Toxic in contact with skin.

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> 17100 mg/kg/day, Dermal, Rabbit

**ATE dermal (mg/kg)** 300.0

#### Acute toxicity - inhalation

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<b>Summary</b>	Toxic if inhaled.
<b>Notes (inhalation LC<sub>50</sub>)</b>	LC50 6 hour exposure: 87.5 mg/l, Inhalation, Rat
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Negative.
<b>Genotoxicity - in vivo</b>	Negative.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	Fertility - NOAEL <1000 mg/kg, Oral, Rat P Fertility - NOAEC 2.39 mg/l, Inhalation, Monkey P, F1
<b>Reproductive toxicity - development</b>	Maternal toxicity: - NOAEC: 13.3 mg/l, Inhalation, Rat Maternal toxicity: - LOAEC: 26.6 mg/l, Inhalation, Rat Teratogenicity: - NOAEC: 6.65 mg/l, Inhalation, Rat Teratogenicity: - LOAEC: 13.3 mg/l, Inhalation, Rat
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Causes damage to organs (optic nerve, Central nervous system) through prolonged or repeated exposure.
<b>Target organs</b>	Central nervous system optic nerve
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	LOAEL 2340 mg/kg/day, Oral, Monkey NOAEC 1.06 mg/l, Inhalation, Rat

### SECTION 12: Ecological information

**Ecotoxicity** There are no data on the ecotoxicity of this product.

#### 12.1. Toxicity

##### Acute aquatic toxicity

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

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: Liquid polysulphide polymer: 1000 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: Liquid polysulphide polymer: 1160 mg/l, Daphnia magna

##### Chronic aquatic toxicity

**Summary** Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

##### Ecological information on ingredients.

###### Liquid polysulfide polymer. Mercaptan terminated liquid polymer of diethyleneoxymethane with Sx linkages.

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 320 mg/l, Pimephales promelas (Fat-head Minnow)  
LC<sub>50</sub>, 96 hours: >1000 mg/l, Cyprinodon variegatus (Sheepshead minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 32 mg/l, Daphnia magna  
LC<sub>50</sub>, 96 hours: 59 mg/l, Mysidopsis bahia (saltwater mysid)

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 17 mg/l, Selenastrum capricornutum

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### 1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	LC <sub>50</sub> , 48 hours: 4.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC <sub>50</sub> , 96 hours: >1000 ppm, Pseudokirchneriella subcapitata

### Titanium dioxide

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >100 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: >10000 mg/l, Diatom

### Silicon dioxide, chemically prepared

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: >10000 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 24 hours: >1000 mg/l, Daphnia magna

### Formaldehyde

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 6.18 mg/l, Striped bass (Morone saxatilis)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 5.8 mg/l, Daphnia pulex
Acute toxicity - aquatic plants	EC <sub>50</sub> , 72 hours: 5.67 mg/l, Desmodemus subspicatus

### Phenol

#### Acute aquatic toxicity

Acute toxicity - fish	LC <sub>50</sub> , 96 hours: 8.9 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC <sub>50</sub> , 48 hours: 3.1 mg/l, Ceriodaphnia sp.

#### Chronic aquatic toxicity

Summary	Toxic to aquatic life with long lasting effects.
Chronic toxicity - aquatic invertebrates	NOEC, 60 days: 0.077 mg/l, Cirrhina mrigala

### Methanol

#### Acute aquatic toxicity

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<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 96 hours: 18260 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 22000 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	IC <sub>50</sub> , 3 hours: >1000 mg/l, Activated sludge
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 days: Reproduction: 122 mg/l, Daphnia magna NOEC, 21 days: Growth: 4380 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** No data available for the product. Polysulphide polymer is poorly biodegradable.

### Ecological information on ingredients.

#### Liquid polysulfide polymer. Mercaptan terminated liquid polymer of diethyleneoxymethane with Sx linkages.

**Persistence and degradability** Not readily biodegradable.

#### 1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters

**Persistence and degradability** Readily biodegradable

#### Formaldehyde

**Persistence and degradability** Readily biodegradable

#### Methanol

**Biodegradation** Water - Degradation 88%: 10 days  
Water - Degradation 91%: 15 days  
Water - Degradation 95%: 20 days  
The substance is readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

### Ecological information on ingredients.

#### Liquid polysulfide polymer. Mercaptan terminated liquid polymer of diethyleneoxymethane with Sx linkages.

**Bioaccumulative potential** Bioaccumulation is unlikely.

#### 1,2-Benzenedicarboxylic acid, benzyl isononyl alkyl esters

**Bioaccumulative potential** BCF: 840, Pimephales promelas (Fat-head Minnow)

#### Titanium dioxide

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**Bioaccumulative potential** BCF: 9.6, Cyprinus carpio (Common carp) 42 days

### Methanol

**Bioaccumulative potential** BCF: <10, Leuciscus idus (Golden orfe)

#### 12.4. Mobility in soil

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

#### Ecological information on ingredients.

Liquid polysulfide polymer. Mercaptan terminated liquid polymer of diethyleneoxymethane with Sx linkages.

**Mobility** Not considered mobile.

### Methanol

**Henry's law constant** 0.461 Pa m<sup>3</sup>/mol @ 25°C

#### 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

**General information** Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. May be mixed with curing agent component to give an inert polymeric material.

**Waste class** HP14 Ecotoxic Recommended EWC Code 08 04 09\*

### **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

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### 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

<b>National regulations</b>	<p>The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/720. The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1567.</p> <p>The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, UK SI 2019/758, UK SI 2019/858 and UK SI 2019/1144. The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, UK SI 2020/1577.</p> <p>The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).</p> <p>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].</p> <p>Health and Safety at Work etc. Act 1974 (as amended).</p>
<b>EU legislation</b>	<p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).</p> <p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).</p>
<b>Health and environmental listings</b>	EH40/2005 Workplace exposure limits.
<b>Restrictions (Annex XVII Regulation 1907/2006)</b>	No relevant restrictions.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information



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<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>BCF: Bioconcentration Factor.</p> <p>CAS: Chemical Abstracts Service.</p> <p>cATpE: Converted Acute Toxicity Point Estimate.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>GHS: Globally Harmonized System.</p> <p>IATA: International Air Transport Association.</p> <p>IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>Kow: Octanol-water partition coefficient.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>LOAEC: Lowest Observed Adverse Effect Concentration.</p> <p>LOAEL: Lowest Observed Adverse Effect Level.</p> <p>MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.</p> <p>NOAEC: No Observed Adverse Effect Concentration.</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>NOEC: No Observed Effect Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>SVHC: Substances of Very High Concern.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> <p>Carc. = Carcinogenicity</p> <p>Eye Dam. = Serious eye damage</p> <p>Flam. Liq. = Flammable liquid</p> <p>Muta. = Germ cell mutagenicity</p> <p>Skin Corr. = Skin corrosion</p> <p>Skin Sens. = Skin sensitisation</p> <p>STOT RE = Specific target organ toxicity-repeated exposure</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
<b>Key literature references and sources for data</b>	<p>SDS from supplier. Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a></p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>Aquatic Chronic 3 - H412: Calculation method.</p>
<b>Revision comments</b>	<p>Revised classification. Revised sections: 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16.</p>
<b>Revision date</b>	<p>24/05/2022</p>

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<b>Revision</b>	3
<b>Supersedes date</b>	16/05/2017
<b>SDS number</b>	10064
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H351 Suspected of causing cancer by inhalation. H370 Causes damage to organs . H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. 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.