



## SAFETY DATA SHEET

### Arbokol 1025 SP 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 1025 SP Base

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

**Identified uses** Base component of: Two part epoxy based 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** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1A - H317

**Environmental hazards** Aquatic Chronic 3 - H412

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

## Arbokol 1025 SP Base

<b>Precautionary statements</b>	<p>P261 Avoid breathing vapours.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</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>
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<b>Contains</b>	Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine, Amines, polyethylenepoly-, triethylenetetramine fraction, N,N'-bis(3-aminopropyl)ethylenediamine
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### 2.3. Other hazards

This product contains terphenyl, hydrogenated which is considered to be a vPvB substance.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Barium sulfate</b>	<b>10 - &lt;20%</b>
CAS number: 7727-43-7                      EC number: 231-784-4	
<b>Classification</b>	
Not Classified	
<b>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine</b>	<b>10 - &lt;20%</b>
CAS number: 68082-29-1                      EC number: 500-191-5	
<b>Classification</b>	
Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1A - H317 Aquatic Chronic 2 - H411	
<b>Terphenyl, hydrogenated</b>	<b>5 - 10%</b>
CAS number: 61788-32-7                      EC number: 262-967-7                      REACH registration number: 01-2119488183-33-XXXX	
<b>Classification</b>	
Aquatic Chronic 2 - H411	

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<b>Amines, polyethylenepoly-, triethylenetetramine fraction</b>	<b>&lt;2%</b>
CAS number: 90640-67-8	EC number: 292-588-2
REACH registration number: 01-2119487919-13-XXXX	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
Aquatic Chronic 3 - H412	
<b>N,N'-bis(3-aminopropyl)ethylenediamine</b>	<b>&lt;2%</b>
CAS number: 10563-26-5	EC number: 234-147-9
REACH registration number: 01-2119976331-37-XXXX	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 3 - H311	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Skin Sens. 1A - H317	
<b>Quartz</b>	<b>&lt; 0.3%</b>
CAS number: 14808-60-7	EC number: 238-878-4
<b>Classification</b>	
STOT RE 1 - H372	

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

**Composition comments** This product contains terphenyl, hydrogenated which is considered to be a vPvB substance.

### 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. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Get medical attention if any discomfort continues.
<b>Skin contact</b>	Wipe off excess material with cloth or paper. Remove contaminated clothing and rinse skin thoroughly with water. If skin irritation or rash occurs: Get medical advice/attention.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>Inhalation</b>	No specific symptoms known.
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<b>Ingestion</b>	May cause discomfort if swallowed. May cause irritation to mouth, throat and stomach.
<b>Skin contact</b>	Skin irritation. Allergic rash.
<b>Eye contact</b>	Causes serious eye damage.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire.
<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>	Toxic gases or vapours.
<b>Hazardous combustion products</b>	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Control run-off water by containing and keeping it out of sewers and watercourses.
<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>	Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use suitable respiratory protection if ventilation is inadequate.
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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>	When handling waste, the safety precautions applying to handling of the product should be considered. Wear necessary protective equipment. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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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. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12. For waste disposal, see section 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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**Usage precautions** Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Persons susceptible to allergic reactions should not handle this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse.

### 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 / adhesive.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Barium sulfate**

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

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

##### **Terphenyl, hydrogenated**

Long-term exposure limit (8-hour TWA): WEL 2 ppm 19 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 5 ppm 48 mg/m<sup>3</sup>

##### **Quartz**

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

Carc

WEL = Workplace Exposure Limit.

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

#### Barium sulfate (CAS: 7727-43-7)

**DNEL** Workers - Inhalation; Long term systemic effects: 10 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>

**PNEC** Fresh water; 115 µg/l  
STP; 62.2 mg/l  
Sediment (Freshwater); 600.4 mg/kg  
Soil; 207.7 mg/kg

#### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (CAS: 68082-29-1)

**DNEL** Workers - Inhalation; Long term systemic effects: 0.952 mg/m<sup>3</sup>  
Workers - Dermal; Long term systemic effects: 0.272 mg/kg/day

**PNEC** Fresh water; 0.004 mg/l  
Fresh water, Intermittent release; 0.043 mg/l  
marine water; 0.0004 mg/l  
STP; 3.84 mg/l  
Sediment (Freshwater); 434.02 mg/kg  
Sediment (Marinewater); 43.4 mg/kg  
Soil; 86.78 mg/kg

#### Terphenyl, hydrogenated (CAS: 61788-32-7)

## Arbokol 1025 SP Base

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 2.01 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 0.622 mg/kg/day
<b>PNEC</b>	- Fresh water; 2 µg/l - marine water; 0.2 µg/l - Intermittent release, Fresh water; 13.4 µg/l - STP; 10.3 mg/l - Sediment (Freshwater); 63.2 mg/kg - Sediment (Marinewater); 6.32 mg/kg - Soil; 12.6 mg/kg - Oral (food); 2.22 mg/kg

### Amines, polyethylenepoly-, triethylenetetramine fraction (CAS: 90640-67-8)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 0.54 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 0.027 mg/l Fresh water, Intermittent release; 0.2 mg/l marine water; 0.003 mg/l marine water, Intermittent release; 0.02 mg/l STP; 0.13 mg/l Sediment (Freshwater); 8.572 mg/kg Sediment (Marinewater); 0.857 mg/kg Soil; 1.25 mg/kg

### N,N'-bis(3-aminopropyl)ethylenediamine (CAS: 10563-26-5)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 1.234 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 0.35 mg/kg/day
<b>PNEC</b>	Fresh water; 0.144 mg/l Fresh water, Intermittent release; 0.43 mg/l marine water; 0.014 mg/l STP; 3.4 mg/l Sediment (Freshwater); 45.3 mg/kg Sediment (Marinewater); 4.53 mg/kg Soil; 8.96 mg/kg

## 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

Use 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.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

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<b>Hygiene measures</b>	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated.
<b>Respiratory protection</b>	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.
<b>Environmental exposure controls</b>	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Paste.
<b>Colour</b>	Buff.
<b>Odour</b>	Slight.
<b>Odour threshold</b>	No information available.
<b>pH</b>	Technically not feasible.
<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>	1.10 @ 20°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	12,000 - 15,000 P @ 20°C
<b>Explosive properties</b>	No information available.
<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

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

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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## Arbokol 1025 SP Base

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. 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)** 47,892.05

#### Acute toxicity - dermal

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

**ATE dermal (mg/kg)** 18,057.33

#### Acute toxicity - inhalation

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

#### Skin corrosion/irritation

**Skin corrosion/irritation** Skin Irrit. 2 Causes skin irritation.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Eye Dam. 1 Causes serious eye damage.

#### Respiratory sensitisation

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

#### Skin sensitisation

**Skin sensitisation** Skin Sens. 1A May cause an allergic skin reaction.

#### 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.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Based on available data the classification criteria are not met.



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### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard** Not relevant, due to the form of the product.

**Inhalation** No specific health hazards known.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Irritating to skin. May cause sensitisation by skin contact.

**Eye contact** Causes serious eye damage.

**Acute and chronic health hazards** Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin.

**Route of exposure** Ingestion Dermal Inhalation

### Toxicological information on ingredients.

#### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

##### 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

##### Skin corrosion/irritation

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

##### Serious eye damage/irritation

**Serious eye damage/irritation** OECD 405 Acute eye irritation / corrosion: Causes serious eye damage (rabbit).

##### Skin sensitisation

**Skin sensitisation** Local Lymph Node Assay (LLNA) - Mouse: Sensitising.

#### Terphenyl, hydrogenated

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 12,500.0

**Species** Rat

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

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2,000 mg/kg, Dermal, Rabbit

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** LC<sub>50</sub> > 4.7 mg/l/4hr/day, Inhalation, Rat

#### Amines, polyethylenepoly-, triethylenetetramine fraction

##### Acute toxicity - oral

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<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,716.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	Harmful if swallowed.
<b>ATE oral (mg/kg)</b>	1,716.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	1,465.0
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	Harmful in contact with skin.
<b>ATE dermal (mg/kg)</b>	1,465.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Causes severe burns.
<b>Animal data</b>	Corrosive (rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion))
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	OECD 405 Acute eye irritation / corrosion: Causes serious eye damage (rabbit).
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Local Lymph Node Assay (LLNA) - Mouse: Sensitising.
<b><u>N,N'-bis(3-aminopropyl)ethylenediamine</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,140.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	Harmful if swallowed.
<b>ATE oral (mg/kg)</b>	1,140.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	Toxic in contact with skin.
<b>ATE dermal (mg/kg)</b>	300.0
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Causes severe burns.
<b>Animal data</b>	Corrosive (rabbit, OECD Guideline 404 (Acute Dermal Irritation / Corrosion))
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	OECD 405 Acute eye irritation / corrosion: Causes serious eye damage (rabbit).
<b><u>Skin sensitisation</u></b>	

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**Skin sensitisation**                      Buehler test - Guinea pig: Sensitising.

### SECTION 12: Ecological information

**Ecotoxicity**                                      The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 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.

#### Chronic aquatic toxicity

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

#### Ecological information on ingredients.

##### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

**Toxicity**    Aquatic Chronic 2

#### Acute aquatic toxicity

**Acute toxicity - fish**                              LC<sub>50</sub>, 96 hours: 7.07 mg/l, Brachydanio rerio (Zebra Fish)

**Acute toxicity - aquatic invertebrates**                      EC<sub>50</sub>, 48 hours: 7.07 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**                      EC<sub>50</sub>, 48 hours: 4.34 mg/l,

##### Terphenyl, hydrogenated

#### Acute aquatic toxicity

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

**Acute toxicity - aquatic invertebrates**                      EC<sub>50</sub>, 48 hours: > 1.34 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**                      EC<sub>50</sub>, 48 hours: > 320 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - microorganisms**                      NOEC, 3 hours: 103 mg/l, Activated sludge

#### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates**                      NOELR, 21 days: <1 mg/l, Daphnia magna

##### Amines, polyethylenepoly-, triethylenetetramine fraction

**Toxicity**    Aquatic Chronic 3

#### Acute aquatic toxicity

**Acute toxicity - fish**                              LC<sub>50</sub>, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates**                      EC<sub>50</sub>, 48 hours: 31.1 mg/l, Daphnia magna

## Arbokol 1025 SP Base

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 20 mg/l, Pseudokirchneriella subcapitata

### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** EC<sub>10</sub>, 21 days: >10 mg/l, Daphnia magna

### N,N'-bis(3-aminopropyl)ethylenediamine

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 220 - < 460 mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 42.54 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: >100 mg/l, Desmodemus subspicatus

## 12.2. Persistence and degradability

**Persistence and degradability** This product is not expected to be readily biodegradable.

### Ecological information on ingredients.

#### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

**Persistence and degradability** Not readily biodegradable.

#### Amines, polyethylenepoly-, triethylenetetramine fraction

**Biodegradation** Not readily biodegradable.

### N,N'-bis(3-aminopropyl)ethylenediamine

**Biodegradation** The substance is readily biodegradable.

## 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.

### Ecological information on ingredients.

#### Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

**Bioaccumulative potential** Bioaccumulation is unlikely.

#### Terphenyl, hydrogenated

**Bioaccumulative potential** BCF: 700 - 5200,

**Partition coefficient** log Pow: 6.5

#### Amines, polyethylenepoly-, triethylenetetramine fraction

**Bioaccumulative potential** Bioaccumulation is unlikely.

### N,N'-bis(3-aminopropyl)ethylenediamine

## Arbokol 1025 SP Base

**Bioaccumulative potential** Bioaccumulation is unlikely.

### 12.4. Mobility in soil

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

### Ecological information on ingredients.

#### N,N'-bis(3-aminopropyl)ethylenediamine

**Adsorption/desorption coefficient** - Koc: 3090 @ 20°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product contains a substance classified as vPvB.

### Ecological information on ingredients.

#### Terphenyl, hydrogenated

**Results of PBT and vPvB assessment** This substance is classified as vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

**Disposal methods** May be mixed with curing agent component to give an inert polymeric material.

**Waste class** HP4 Irritant HP13 Sensitising 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

**Environmentally hazardous substance/marine pollutant**  
No.

### 14.6. Special precautions for user

## Arbokol 1025 SP Base

Not applicable.

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

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

<b>National regulations</b>	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. The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). 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. Health and Safety at Work etc. Act 1974 (as amended).
<b>EU legislation</b>	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). 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).
<b>Guidance</b>	Workplace Exposure Limits EH40.
<b>Health and environmental listings</b>	Terphenyl, hydrogenated is on the GB and the EU Candidate Lists of Substances of Very High Concern (SVHCs) (vPvB (Article 57e))

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## Arbokol 1025 SP Base

<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>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>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>Key literature references and sources for data</b>	SDS from supplier. Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Eye Dam. 1 - H318, Skin Irrit. 2 - H315, Skin Sens. 1A - H317, Aquatic Chronic 3 - H412:
<b>Revision comments</b>	Revised classification. Revised sections: 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
<b>Revision date</b>	25/02/2022
<b>Revision</b>	2
<b>Supersedes date</b>	10/05/2017
<b>SDS number</b>	10286
<b>SDS status</b>	Approved.

## Arbokol 1025 SP Base

### Hazard statements in full

H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H372 Causes 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.