

# Safety Data Sheet

**VERNIS SA**  
Primer

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

- 1.1 Product identifier**
- |                       |                                   |
|-----------------------|-----------------------------------|
| <b>Product name</b>   | VERNIS SA SPRAY PRIMER (CANISTER) |
| <b>Product number</b> | VSA001                            |
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- |                             |  |
|-----------------------------|--|
| <b>Identified uses</b>      | Primer.  |
| <b>Uses advised against</b> | No specific uses advised against are identified. |
- 1.3. Details of the supplier of the safety data sheet**
- |                 |  |
|-----------------|--|
| <b>Supplier</b> | AXTER LTD, West Road, Ransomes Europark, Ipswich IP3 9SX UK<br><b>Tel: +44 (0) 1473 724056, 8.00 am to 5.30 pm, Monday to Friday</b><br>Email: info@axterltd.co.uk |
|-----------------|--|
- 1.4 Emergency telephone**
- |  |   |
|--|---|
|  | + 44 1473 724056 (NOT 24HRS - 8am - 5.30pm, Monday Friday)<br>In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department. |
|--|---|
- National Emergency telephone**
- |  |  |
|--|--|
|  | National Poisons Information Service (UK) TEL: 0844 892 0111 |
|--|--|

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture Classification (EC 1272/2008)

<b>Physical hazards</b>	Aerosol 1 - H222, H229
<b>Health hazards</b>	Skin Irrit. 2 - H315 STOT SE 3 - H336
<b>Environmental hazards</b>	Aquatic Chronic 2 - H411
<b>Human health</b>	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May be slightly irritating to eyes.
<b>Physicochemical</b>	The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

### 2.2. Label elements Pictogram



Signal word

Danger

#### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P260 Do not breathe spray.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
P501 Dispose of contents/ container in accordance with national regulations.  
P260 Do not breathe spray.

#### Contains

CYCLOHEXANE, hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane, ETHYL ACETATE

#### Supplementary precautionary statements

P261 Avoid breathing vapour/ spray.  
P264 Wash contaminated skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.

P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a Poison Centre/ doctor if you feel unwell.  
 P321 Specific treatment (see medical advice on this label).  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

**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>DIMETHYL ETHER</b> <span style="float: right;">30-60%</span>		
CAS number: 115-10-6	EC number: 204-065-8	REACH registration number: 01-2119472128-37-0003
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas, Liquefied - H280		
<b>CYCLOHEXANE</b> <span style="float: right;">20.0%</span>		
CAS number: 110-82-7	EC number: 203-806-2	REACH registration number: 01-2119463273-41-0000
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
<b>hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, &lt;5% nhexane</b> <span style="float: right;">19.5%</span>		
CAS number: —	EC number: 921-024-6	REACH registration number: 01-2119475514-35-0001
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		

<b>ETHYL ACETATE</b>			<b>7.0%</b>
<b>CAS number:</b> 141-78-6	<b>EC number:</b> 205-500-4	<b>REACH registration number:</b> 01-2119475103-46-0017	
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336			
<b>ZBED (ZINC DIBENZYL DITHIOCARBAMATE)</b>			<b>0.9%</b>
<b>CAS number:</b> 14726-36-4	<b>REACH registration number:</b> 01-2119543708-31-0001		
<b>M factor (Acute) = 1</b>	<b>M factor (Chronic) = 1</b>		
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			
<b>HEXANE-norm</b>			<b>0.5%</b>
<b>CAS number:</b> 110-54-3	<b>EC number:</b> 203-777-6	<b>REACH registration number:</b> 01-2119480412-44-0009	
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361f STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411			

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

## Section 4: First aid measures

### 4.1. Description of first aid measures

**General information**

Get medical attention if any discomfort continues.

**Inhalation**

Remove affected person from source of contamination.  
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Rinse mouth thoroughly with water. Get medical attention.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water.

**Eye contact**

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.

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

**General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Prolonged skin contact may cause redness and irritation.

**Eye contact** May cause temporary eye irritation.

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

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## Section 5: Firefighting measures

### 5.1. **Extinguishing media**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire. Extinguish with alcohol-resistant 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** The product is extremely flammable. Heating may generate flammable vapours. Pressurised container: must not be exposed to temperatures above 50°C. Extremely flammable. Forms explosive mixtures with air. May explode when heated or exposed to flames or sparks. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

**Hazardous combustion products** Does not decompose when used and stored as recommended.

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

**Protective actions during firefighting** Control run-off water by containing and keeping it out of sewers and watercourses. Avoid breathing fire gases or vapours. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke.

**Special protective equipment for firefighters** Wear chemical protective suit.

## Section 6: Accidental release measures

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

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. **Environmental precautions**

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. 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**

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers.

**6.4. Reference to other sections****Reference to other sections**

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

**Section 7: Handling and storage****7.1. Precautions for safe handling****Usage precautions**

Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

**7.2. Conditions for safe storage, including any incompatibilities****Storage precautions**

Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container.

**Storage class**

Flammable liquid storage.

**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

**DIMETHYL ETHER**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 766 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 958 mg/m<sup>3</sup>

**CYCLOHEXANE**

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m<sup>3</sup>

**ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

**ZBED (ZINC DIBENZYL DITHIOCARBAMATE)**

Long-term exposure limit (8-hour TWA): 6 mg/m<sup>3</sup>

**HEXANE-norm**

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

**Ingredient comments**

WEL = Workplace Exposure Limits

**CYCLOHEXANE (CAS: 110-82-7)****DNEL**

Consumer - Oral; Long term systemic effects: 59.4 mg/kg bw/day  
 Consumer - Dermal; Long term systemic effects: 1186 mg/kg bw/day  
 Workers - Dermal; Long term systemic effects: 2016 mg/kg bw/day  
 Consumer - Inhalation; Short term local effects: 412 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term systemic effects: 412 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 700 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term systemic effects: 700 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 206 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 700 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 206 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term systemic effects: 700 mg/m<sup>3</sup>

**PNEC**

Fresh water; 0.207 mg/l  
 Sediment (Freshwater); 3.627 mg/kg  
 STP; 3.24 mg/l  
 Soil; 2.99 mg/kg

**hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane****Ingredient comments**

WEL = Workplace Exposure Limits

**DNEL**

Consumer - Oral; Long term systemic effects: 699 mg/kg bw/day  
 Workers - Oral; Long term systemic effects: 2035 mg/kg bw/day  
 Consumer - Dermal; Long term systemic effects: 699 mg/kg bw/day  
 Workers - Dermal; Long term systemic effects: 773 mg/kg bw/day  
 Consumer - Inhalation; Long term systemic effects: 608 mg/m<sup>3</sup>

**ETHYL ACETATE (CAS: 141-78-6)****DNEL**

Workers - Inhalation; Short term systemic effects: 1468 mg/m<sup>3</sup>  
 Workers - Inhalation; Short term local effects: 1468 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term systemic effects: 734 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term local effects: 374 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 734 mg/m<sup>3</sup>  
 Workers - Dermal; Long term systemic effects: 63 mg/kg bw/day  
 Workers - Inhalation; Long term systemic effects: 734 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 37 mg/kg bw/day  
 Consumer - Inhalation; Long term systemic effects: 367 mg/m<sup>3</sup>  
 Consumer - Oral; Long term systemic effects: 4.5 mg/kg bw/day  
 Consumer - Inhalation; Long term local effects: 367 mg/m<sup>3</sup>

**PNEC**

Fresh water; 0.26 mg/l  
 Marine water; 0.026 mg/l  
 Intermittent release; 1.65 mg/l  
 Sediment (Freshwater); 1.25 mg/kg  
 Sediment (Marinewater); 0.125 mg/kg  
 Soil; 0.24 mg/kg  
 STP; 650 mg/l

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. This product is not to be used under conditions of poor ventilation.

### Eye/face protection

The following protection should be worn: Chemical splash goggles.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash contaminated clothing before reuse. Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet.

### Respiratory protection

In confined or poorly-ventilated spaces, a supplied-air respirator must be worn. Wear a respirator fitted with the following cartridge: ABEK2-P3. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## Section 9: Physical and Chemical Properties

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

<b>Appearance</b>	Aerosol.
<b>Colour</b>	Various colours.
<b>Odour</b>	Ether.



<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point</b>	Estimated value. -141.5°C
<b>Initial boiling point and range</b>	Estimated value. -24.8°C @ 1013 hPa
<b>Flash point</b>	Estimated value. -41°C
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Estimated value. : 3.3%-26.2%
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	Estimated value. 5132,9 hPa @ 25°C
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	1.10 @ 20°C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Estimated value. 45.6 g/l water @ 25°C
<b>Partition coefficient</b>	Estimated value. Pow: 0.07
<b>Auto-ignition temperature</b>	Estimated value. 226°C
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	Kinematic viscosity > 20.5 mm <sup>2</sup> /s.
<b>Explosive properties</b>	Not applicable.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information given is applicable to the product as supplied.
<b>9.2. Other information</b>	
<b>Other information</b>	No information required.
<b>Refractive index</b>	Not applicable.
<b>Particle size</b>	Not applicable.
<b>Molecular weight</b>	Not applicable.
<b>Volatility</b>	Not applicable.
<b>Saturation concentration</b>	Not applicable.
<b>Critical temperature</b>	Not applicable.

## Section 10: Stability and reactivity

<b>10.1. Reactivity</b> <b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>10.2. Chemical stability</b> <b>Stability</b>	No particular stability concerns. Stable at normal ambient temperatures and when used as recommended.
<b>10.3. Possibility of hazardous reactions</b> <b>Possibility of hazardous reactions</b>	Not applicable. Not relevant.
<b>10.4. Conditions to avoid</b> <b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
<b>10.5. Incompatible materials</b> <b>Materials to avoid</b>	Strong oxidising agents. Strong acids. Strong alkalis.
<b>10.6. Hazardous decomposition products</b> <b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

## Section 11: Toxicological information

<b>11.1. Information on toxicological effects</b> <b>Acute toxicity - dermal</b> <b>ATE dermal (mg/kg)</b>	10,000.0
<b>Skin corrosion/irritation</b> <b>Animal data</b>	Irritating.
<b>Serious eye damage/irritation</b> <b>Serious eye damage/irritation</b>	Moderately irritating.
<b>Respiratory sensitisation</b> <b>Respiratory sensitisation</b>	Sensitising.
<b>Carcinogenicity</b> <b>Target organ for carcinogenicity</b>	No specific target organs known.
<b>Reproductive toxicity</b> <b>Reproductive toxicity - development</b>	This substance has no evidence of toxicity to reproduction.
<b>Specific target organ toxicity - repeated exposure</b> <b>STOT - repeated exposure</b>	Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.
<b>Aspiration hazard</b> <b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	May cause stomach pain or vomiting.
<b>Skin contact</b>	Irritating to skin.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.
<b>Route of entry</b>	Inhalation Skin and/or eye contact
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes.

**Toxicological information on ingredients.****DIMETHYL ETHER****Acute toxicity - inhalation****Acute toxicity inhalation****(LC<sub>50</sub> gases ppmV)** 164,000.0**Species** Rat**ATE inhalation (gases ppm)** 164,000.0**CYCLOHEXANE****Acute toxicity - oral****Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0**Species** Rat**ATE oral (mg/kg)** 5,000.0**Acute toxicity - dermal****Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0**Species** Rabbit**ATE dermal (mg/kg)** 2,000.0**hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane****Toxicological effects**

No information available.

**Acute toxicity - oral****Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,840.0**Species** Rat**Notes (oral LD<sub>50</sub>)** Not known. Data lacking.**ATE oral (mg/kg)** 5,840.0**Acute toxicity - dermal****Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,920.0**Species** Rat**Notes (dermal LD<sub>50</sub>)** Data lacking.**ATE dermal (mg/kg)** 2,920.0**Acute toxicity - inhalation****Acute toxicity inhalation****(LC<sub>50</sub> vapours mg/l)** 25.2**Species** Rat**ATE inhalation (vapours mg/l)** 25.2**Skin corrosion/irritation****Animal data** Data lacking.**Serious eye damage/irritation****Serious eye damage/irritation** Data lacking.**Aspiration hazard****Aspiration hazard**Kinematic viscosity > 20.5 mm<sup>2</sup>/s.**Inhalation**

May cause respiratory system irritation.

**Ingestion**

May cause stomach pain or vomiting.

**Skin contact**

Irritating to skin.

**Eye contact**

May cause severe eye irritation.

**Acute and chronic health hazards**

Vapour from this product may be hazardous by inhalation.

**Route of entry**

Inhalation Skin absorption Ingestion. Skin and/or eye contact

<b>Target organs</b>	No specific target organs known.
<b>Medical symptoms</b>	Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.
<b>Medical considerations</b>	No information available.
<b>ETHYL ACETATE</b>	
<b>Acute toxicity - oral</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5620.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	5620.0
<b>Acute toxicity - dermal</b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	20,000.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	20,000.0
<b>Acute toxicity - inhalation</b>	
<b>Acute toxicity inhalation</b>	
<b>(LC<sub>50</sub> vapours mg/l)</b>	30.0
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	30.0
<b>ZBED (ZINC DIBENZYL DITHIOCARBAMATE)</b>	
<b>Inhalation</b>	Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
<b>Skin contact</b>	Causes mild skin irritation.
<b>Eye contact</b>	Irritating and may cause redness and pain.
<b>HEXANE-norm</b>	
<b>Acute toxicity - oral</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	25,000.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	25,000.0
<b>Acute toxicity - inhalation</b>	
<b>Acute toxicity inhalation</b>	
<b>(LC<sub>50</sub> gases ppmV)</b>	48,000.0
<b>Species</b>	Rat
<b>ATE inhalation (gases ppm)</b>	48,000.0

## Section 12: Ecological Information

**Ecotoxicity** The product is not expected to be hazardous to the environment.

### Ecological information on ingredients.

#### hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane

**Ecotoxicity** Dangerous for the environment.

### 12.1. Toxicity

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

**Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: >500 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**

EC<sub>50</sub>, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

**Ecological information on ingredients.****CYCLOHEXANE****Acute aquatic toxicity****LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1**M factor (Acute)** 1**Acute toxicity - fish** LC<sub>0</sub>, 96 hours: 4.53 mg/l, Pimephales promelas (Fat-head Minnow)**Acute toxicity - aquatic invertebrates** EC<sub>0</sub>, 48 hours: 0.9 mg/l, Daphnia magna**Acute toxicity - aquatic plants** IC<sub>0</sub>, 72 hours: 3.4 mg/l, Algae**Acute toxicity - microorganisms** EC<sub>50</sub>, 20 hours: 29 mg/l, Bacteria**Chronic aquatic toxicity****M factor (Chronic)** 1**hydrocarbons, C6-C7,n-alkanes, isoalkanes, cyclics, <5% n-hexane****Acute toxicity - fish** LC<sub>0</sub>, hours: >1-<10 mg/l, Fish**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 3 mg/l, Daphnia magna**Acute toxicity - aquatic plants** LC<sub>0</sub>, hours: >1-<10 mg/l, Algae**ETHYL ACETATE****Acute toxicity - fish** EC<sub>50</sub>, 48 hours: 610 mg/l, Marinewater fish  
LC<sub>50</sub>, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 11.5 mg/l, Daphnia magna**Acute toxicity - aquatic plants** EC<sub>50</sub>, 48 hours: 5600 mg/l, Freshwater algae**ZBED (ZINC DIBENZYL DITHIOCARBAMATE)****Acute aquatic toxicity****LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1**M factor (Acute)** 1**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 10 mg/l, Brachydanio rerio (Zebra Fish)**Chronic aquatic toxicity****M factor (Chronic)** 1**HEXANE-norm****Acute toxicity - fish** LC<sub>50</sub>, EC<sub>50</sub>, IC<sub>50</sub>, : 10 mg/l, Fish**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, EC<sub>50</sub>, IC<sub>50</sub>, : 10 mg/l, Daphnia magna**Acute toxicity - aquatic plants** LC<sub>50</sub>, EC<sub>50</sub>, IC<sub>50</sub>, : 10 mg/l, Algae**12.2. Persistence and degradability****Persistence and degradability** The product is not readily biodegradable.**Stability (hydrolysis)** Reacts with water.**Biological oxygen demand** < 10 g O<sub>2</sub>/g substance**12.3. Bioaccumulative potential****Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.**Partition coefficient** Estimated value. Pow: 0.07**Ecological information on ingredients.****CYCLOHEXANE****Bioaccumulative potential** BCF: 167,

**ETHYL ACETATE**

**Bioaccumulative potential** BCF: 30,  
**Partition coefficient** Not available.

**12.4. Mobility in soil**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**Ecological information on ingredients.****ETHYL ACETATE**

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

**ZBED (ZINC DIBENZYL DITHIOCARBAMATE)**

**Mobility** 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.

**Ecological information on ingredients.****ETHYL ACETATE**

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

**ZBED (ZINC DIBENZYL DITHIOCARBAMATE)**

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

**12.6. Other adverse effects**

**Other adverse effects** None known.

**Ecological information on ingredients.****ETHYL ACETATE**

**Other adverse effects** Not known.

**Section 13: Disposal considerations****13.1. Waste treatment methods**

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of 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.

**Section 14: Transport information****14.1. UN number**

**UN No. (ADR/RID)** 3501  
**UN No. (IMDG)** 3501  
**UN No. (ICAO)** 3501  
**UN No. (ADN)** 3501

<b>14.2. UN proper shipping name</b>	
<b>Proper shipping name (ADR/RID)</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (contains Dimethyl Ether)
<b>Proper shipping name (IMDG)</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (contains Dimethyl Ether)
<b>Proper shipping name (ICAO)</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (contains Dimethyl Ether)
<b>Proper shipping name (ADN)</b>	CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (contains Dimethyl Ether)

<b>14.3. Transport hazard class(es)</b>	
<b>ADR/RID class</b>	2.1
<b>ADR/RID classification code</b>	8F
<b>ADR/RID label</b>	2.1
<b>IMDG class</b>	2.1
<b>ICAO class/division</b>	2.1
<b>ADN class</b>	2.1

**Transport labels**

**14.4. Packing group**

**14.5. Environmental hazards**  
**Environmentally hazardous substance/marine pollutant**



<b>14.6. Special precautions for user</b>	
<b>EmS</b>	F-D, S-U
<b>ADR transport category</b>	2
<b>Hazard Identification Number (ADR/RID)</b>	23
<b>Tunnel restriction code</b>	(B/D)

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

## Section 15: Regulatory information

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (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).
<b>Guidance</b>	The spraying of flammable liquids HSG178.
<b>Restrictions (Annex XVII Regulation 1907/2006)</b>	Entry number: 57- cyclohexane

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**Section 16: Other information**

<b>Revision date</b>	03/11/2020
<b>Revision</b>	22
<b>Supersedes date</b>	17/09/2019

<b>Hazard statements in full</b>	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H280 Contains gas under pressure; may explode if heated. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H361f Suspected of damaging fertility. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<b>Store Between</b>	5°C - 25°C
<b>Contains SVHC</b>	NO

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.