

# SAFETY DATA SHEET

## Polar

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

#### 1.1. Product identifier

Product name Polar

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

Identified uses Anti-static spray

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

Supplier Aztec Chemicals  
Unit 16, University Way  
Orion Park  
Crewe  
Cheshire  
CW1 6NG  
+ 44 (0) 1270 655500 (T)  
+ 44 (0) 1270 655501 (F)  
info@aztecchemicals.com

#### 1.4. Emergency telephone number

Emergency telephone +44 (0)1270 656380 (Monday to Friday, 9am to 5pm)

### SECTION 2: Hazards identification

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

##### Classification (EC 1272/2008)

Physical hazards Aerosol 1 - H222, H229

Health hazards Acute Tox. 4 - H302 Eye Irrit. 2 - H319

Environmental hazards Not Classified

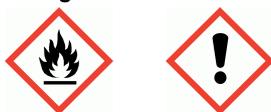
**Human health** Gas or vapour is harmful on prolonged exposure or in high concentrations. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

**Environmental** This product does not contain substances which are harmful to aquatic organisms or which may cause long term effects to the aquatic environment

**Physicochemical** Aerosol containers can explode when heated, due to excessive pressure build-up. The product is extremely flammable. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

#### 2.2. Label elements

##### Pictogram



Signal word Danger

## Polar

<b>Hazard statements</b>	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H302 Harmful if swallowed. H319 Causes serious eye irritation.
<b>Precautionary statements</b>	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. P260 Do not breathe vapour/ spray. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P102 Keep out of reach of children. P271 Use only outdoors or in a well-ventilated area. P308+P313 IF exposed or concerned: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with local regulations.
<b>Supplemental label information</b>	RCH002b For professional users only.
<b>Contains</b>	METHANOL

### 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>ETHANOL</b>		<b>30-60%</b>
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319		
<b>PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS</b>		<b>30-60%</b>
CAS number: 68476-85-7	EC number: 270-704-2	
<b>Classification</b> Flam. Gas 1 - H220 Press. Gas (Liq.) - H280		
<b>METHANOL</b>		<b>1-5%</b>
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		

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<b>PROPAN-2-OL</b>		<b>&lt;1%</b>
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25
<b>Classification</b>		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		
STOT SE 3 - H336		

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air at once.
<b>Inhalation</b>	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water.
<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 and get medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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#### 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>	Extinguish with foam, carbon dioxide, dry powder or water fog.
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#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up.
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#### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.
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### SECTION 6: Accidental release measures

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

<b>Personal precautions</b>	Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.
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#### 6.2. Environmental precautions

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**Environmental precautions** Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.

### 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 spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray on a naked flame or any incandescent material.

### 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

##### **ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

##### **PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

##### **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

##### **PROPAN-2-OL**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

**Ingredient comments** WEL = Workplace Exposure Limits

### ETHANOL (CAS: 64-17-5)

**Ingredient comments** WEL = Workplace Exposure Limits

## Polar

**DNEL**

Industry - Inhalation; Short term : 1900 mg/m<sup>3</sup>  
 Industry - Dermal; Long term : 343 mg/kg/day  
 Industry - Inhalation; Long term : 950 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term : 950 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term : 206 mg/kg/day  
 Consumer - Inhalation; Long term : 114 mg/m<sup>3</sup>  
 Consumer - Oral; Long term : 87 mg/kg/day

**PNEC**

- Fresh water; 0.96 mg/l
- marine water; 0.79 mg/l
- Sediment; 3.6 mg/kg
- Soil; 0.62 mg/kg
- STP; 580 mg/l
- STP; 580 mg/l
- Intermittent release; 2.75 mg/l
- Sediment (Marinewater); 2.9 mg/kg
- Soil; 0.63 mg/kg
- ;

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

**DNEL**

Industry - Dermal; Short term systemic effects: 40 mg/kg/day  
 Industry - Inhalation; Short term systemic effects: 260 mg/m<sup>3</sup>  
 Industry - Inhalation; Short term local effects: 260 mg/m<sup>3</sup>  
 Industry - Dermal; Long term systemic effects: 40 mg/kg/day  
 Industry - Inhalation; Long term systemic effects: 260 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 50 mg/m<sup>3</sup>  
 Consumer - Dermal; Short term systemic effects: 8 mg/kg/day  
 Consumer - Inhalation; Short term systemic effects: 50 mg/m<sup>3</sup>  
 Consumer - Oral; Short term systemic effects: 8 mg/kg/day

**PNEC**

- Fresh water; 154 mg/l
- marine water; 15.4
- Sediment; 570.4 mg/kg
- Soil; 23.5 mg/kg
- STP; 100 mg/l
- Intermittent release; 1540 mg/kg

### PROPAN-2-OL (CAS: 67-63-0)

**DNEL**

Industry - Dermal; Long term systemic effects: 888 mg/kg/day  
 Industry - Inhalation; Long term systemic effects: 500 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term systemic effects: 319 mg/kg/day  
 Consumer - Dermal; Long term systemic effects: 26 mg/kg/day  
 Consumer - Inhalation; Long term systemic effects: 89 mg/m<sup>3</sup>

**PNEC**

- Fresh water; 140.9 mg/l
- marine water; 140.9 mg/l
- Intermittent release; 140.9 mg/l
- Sediment (Freshwater); 552 mg/kg
- Sediment (Marinewater); 552 mg/kg
- STP; 2251 mg/l
- Soil; 28 mg/kg

## 8.2. Exposure controls

## Polar

<b>Appropriate engineering controls</b>	Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.
<b>Personal protection</b>	When using do not smoke.
<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Due to the packaging form, aerosol, risk of skin contact is small. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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.
<b>Hygiene measures</b>	Wash hands after handling. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
<b>Respiratory protection</b>	If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Aerosol.
<b>Colour</b>	Clear.
<b>Odour</b>	Organic solvents.
<b>Initial boiling point and range</b>	-40 to -2°C @ 1013 hPa
<b>Flash point</b>	<-40°C
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.8% Upper flammable/explosive limit: 9.5%
<b>Vapour pressure</b>	ca. 590 to 1760 kPa @ 45°C
<b>Vapour density</b>	ca. 1.5 at 15°C
<b>Auto-ignition temperature</b>	410-580°C
<b>Comments</b>	Information given is applicable to the major ingredient.

#### 9.2. Other information

<b>Other information</b>	Not available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 680 g/l.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.2. Chemical stability

<b>Stability</b>	Avoid the following conditions: Heat, sparks, flames.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Does not decompose when used and stored as recommended.
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#### 10.4. Conditions to avoid

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**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

### 10.5. Incompatible materials

**Materials to avoid** Keep away from oxidising materials, heat and flames.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 844.59

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 12,668.92

#### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 3,699.32

**General information** Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.

**Inhalation** In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Unconsciousness, possibly death.

**Skin contact** Skin irritation should not occur when used as recommended. Repeated exposure may cause skin dryness or cracking.

**Eye contact** Vapour or spray in the eyes may cause irritation and smarting.

**Acute and chronic health hazards** Arrhythmia (deviation from normal heart beat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Route of exposure** Inhalation

**Target organs** Central nervous system Respiratory system, lungs

**Medical symptoms** Arrhythmia (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

### Toxicological information on ingredients.

#### ETHANOL

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 10,470.0

**Species** Rat

**ATE oral (mg/kg)** 10,470.0

#### Acute toxicity - dermal

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**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rabbit

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 51.0

**Species** Rat

**ATE inhalation (vapours mg/l)** 51.0

### Skin corrosion/irritation

**Animal data** Erythema/eschar score: Very slight erythema - barely perceptible (1)., Well defined erythema (2). Not irritating.

### Serious eye damage/irritation

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

### Respiratory sensitisation

**Respiratory sensitisation** Not sensitising. Guinea pig: Not sensitising. Mouse, Rat: Not sensitising.

### Carcinogenicity

**Carcinogenicity** NOAEL >4000 mg/kg/day, Oral, Mouse NOAEL >3000 mg/kg/day, , Rat

### Reproductive toxicity

**Reproductive toxicity - fertility** - NOAEL 21.5 mg/kg/day, , Mouse P - NOAEL 13.8 mg/kg/day, , Mouse F1

**Reproductive toxicity - development** Teratogenicity: - LOAEL: 8200 mg/kg/day, , Rat Developmental toxicity: - NOAEL: 5200 mg/kg/day, , Rat Maternal toxicity: - : ≥ 20000 , , Teratogenicity: - NOAEL: 16000 ppm, , Rat

### Specific target organ toxicity - single exposure

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

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Based on available data the classification criteria are not met. NOAEL 1730 mg/kg/day, Oral, Rat, Liver NOAEL > 20 mg/l, Inhalation, Rat

### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

**Skin contact** Not a skin sensitiser. No specific health hazards known.

**Eye contact** Irritating to eyes. Irritation of nose, throat and airway.

**Route of exposure** Inhalation Ingestion.

**Target organs** Gastro-intestinal tract Liver

## METHANOL

### Acute toxicity - oral

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<b>ATE oral (mg/kg)</b>	100.0
<b><u>Acute toxicity - dermal</u></b>	
<b>ATE dermal (mg/kg)</b>	300.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	87.6
<b>Species</b>	Rat
<b>ATE inhalation (dusts/mists mg/l)</b>	87.6
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEL 1.3 mg/l , Rat NOAEL 2.39 mg/l , Monkey
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - development</b>	- NOAEL: 1.33 mg/l , Rat

### Alcohol ethoxylate

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,000.0
<b>Species</b>	Rat
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	2,000.0
<b>Species</b>	Rat

### PROPAN-2-OL

<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,840.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	Low order of acute toxicity.
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	16.4
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	Low order of acute toxicity.
<b><u>Acute toxicity - inhalation</u></b>	
<b>Notes (inhalation LC<sub>50</sub>)</b>	6 hours.
<b><u>Skin corrosion/irritation</u></b>	
<b>Animal data</b>	Not irritating.

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### Respiratory sensitisation

**Respiratory sensitisation** Not available.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Negative.

### Reproductive toxicity

**Reproductive toxicity - fertility** No evidence of reproductive toxicity in animal studies.

**Inhalation** Drowsiness, dizziness, disorientation, vertigo.

**Ingestion** No specific health hazards known.

**Skin contact** No specific health hazards known.

**Eye contact** Irritating to eyes.

## SECTION 12: Ecological information

**Ecotoxicity** No negative effects on the aquatic environment are known. The product is not expected to be toxic to aquatic organisms.

### Ecological information on ingredients.

#### ETHANOL

**Ecotoxicity** Not regarded as dangerous for the environment.

#### PROPAN-2-OL

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

### 12.1. Toxicity

**Toxicity** Not available.

### Ecological information on ingredients.

#### ETHANOL

**Toxicity** Not available.

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 48 hours: > 100 mg/l, *Leuciscus idus* (Golden orfe)  
LC<sub>50</sub>, 96 hours: 15300 mg/l, *Pimephales promelas* (Fat-head Minnow)  
LC<sub>50</sub>, 24 hours: 11200 mg/l, *Salmo gairdneri*  
LC<sub>50</sub>, 96 hours: 13000 mg/l, *Oncorhynchus mykiss* (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 12340 mg/l, *Daphnia magna*  
EC<sub>50</sub>, 24 hours: 858 mg/l, *Artemia salina*  
LC<sub>50</sub>, 48 hours: 5012 mg/l, *Ceriodaphnia dubia* (water flea)

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 275 mg/l, Freshwater algae, *Chlorella vulgaris*  
EC<sub>20</sub>, 72 hours: 11.5 mg/l, *Chlorella vulgaris*

**Acute toxicity - microorganisms** EC<sub>50</sub>, 4 hours: 5800 mg/l, *Paramecium caudatum*

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### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 30 days: 245 mg/l,

**Chronic toxicity - aquatic invertebrates** NOEC, 10 days: 9.6 mg/l, Ceriodaphnia dubia (water flea)  
NOEC, 12 days: 79 mg/l, Palaemonetes pugio

### METHANOL

**Toxicity** Not available.

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 29400 mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: > 100000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 22000 mg/l, Selenastrum capricornutum

### Alcohol ethoxylate

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1-10 mg/l, Fish

### PROPAN-2-OL

**Toxicity** Not available.

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, : > 1000 mg/l, Daphnia magna  
24 hours

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: > 1000 mg/l, Scenedesmus subspicatus

**Acute toxicity - microorganisms** EC<sub>50</sub>, : > 1000 mg/l, Activated sludge

## 12.2. Persistence and degradability

**Persistence and degradability** Not available.

## Ecological information on ingredients.

### ETHANOL

**Stability (hydrolysis)** No significant reaction in water.

**Biodegradation** Water - Degradation (%) 70: > 5 days  
The substance is readily biodegradable.  
Water and sediment - Degradation 97%: 28 days

**Biological oxygen demand** 100 mg/g

**Chemical oxygen demand** 1900 mg/g

### METHANOL

## Polar

**Persistence and degradability** Not available.

### PROPAN-2-OL

**Persistence and degradability** Not available.

**Biodegradation** Degradation (%)  
- Degradation (%) 95: 21 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not available.

### Ecological information on ingredients.

#### ETHANOL

**Bioaccumulative potential** Not available.

**Partition coefficient** log Kow: -0.32

#### METHANOL

**Bioaccumulative potential** BCF: 0.2,

**Partition coefficient** log Pow: -0.77

### PROPAN-2-OL

**Bioaccumulative potential** Not available.

**Partition coefficient** log Pow: 0.05

### 12.4. Mobility in soil

**Mobility** Not known.

### Ecological information on ingredients.

#### ETHANOL

**Mobility** The product is soluble in water. The product contains organic solvents which will evaporate easily from all surfaces. This product is poorly adsorbed onto soils or sediments.

#### METHANOL

**Mobility** Not known.

### PROPAN-2-OL

**Mobility** Not known.

**Adsorption/desorption coefficient** Water - Koc: ~ 1.1 @ °C

**Henry's law constant** 0.00000338 atm m<sup>3</sup>/mol @ 25°C

### 12.5. Results of PBT and vPvB assessment

## Polar

**Results of PBT and vPvB assessment** Not available.

### Ecological information on ingredients.

#### ETHANOL

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

#### METHANOL

**Results of PBT and vPvB assessment** Not available.

#### PROPAN-2-OL

**Results of PBT and vPvB assessment** Not available.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

### Ecological information on ingredients.

#### ETHANOL

**Other adverse effects** Avoid releasing into the environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid subsoil penetration.

#### METHANOL

**Other adverse effects** Not available.

#### PROPAN-2-OL

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Do not puncture or incinerate, even when empty.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion.

## SECTION 14: Transport information

**General** This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

### 14.1. UN number

## Polar

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	None
IMDG packing group	None
ICAO packing group	None
ADN packing group	None

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 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

## SECTION 15: Regulatory information

## Polar

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

<b>National regulations</b>	EH40/2005 Workplace exposure limits. The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
<b>EU legislation</b>	Commission Regulation (EU) No 453/2010 of 20 May 2010.
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. British Aerosol Manufacturers Code of Practice 7th. Edition 1999

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision comments</b>	Revised classification.
<b>Revision date</b>	26/10/2018
<b>Revision</b>	3
<b>SDS number</b>	10086
<b>SDS status</b>	Approved.
<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. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H370 Causes damage to organs .

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.