

SAFETY DATA SHEET

Shield - Autobrite Direct

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

SECTION 1: Identification of the	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	Shield - Autobrite Direct
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
Identified uses	Vehicle Screenwash
Uses advised against	Use only for intended applications.
1.3. Details of the supplier of t	he safety data sheet
Supplier	Autobrite Direct Limited Whittle Road Meir Stoke-on-Trent Staffordshire ST3 7TU 01782 623 819 info@autobritedirect.co.uk
1.4. Emergency telephone nur	nber
Emergency telephone	01782 623819 - Mon-Fri - 9am-5pm - Autobrite Direct Limited
SECTION 2: Hazards identific	ation
2.1. Classification of the subst	ance or mixture
Classification (EC 1272/2008)	
Physical hazards	Flam. Liq. 2 - H225
Health hazards	Eye Irrit. 2 - H319 STOT SE 3 - H336
Environmental hazards	Not Classified
2.2. Label elements	
Hazard pictograms	
Signal word	Danger
Hazard statements	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P261 Avoid breathing vapour/ spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.</li> <li>Rinse skin with water or shower.</li> <li>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</li> <li>P403+P235 Store in a well-ventilated place. Keep cool.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Contains	propan-2-ol
Supplementary precautionary statements	<ul> <li>P240 Ground and bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical equipment.</li> <li>P242 Use non-sparking tools.</li> <li>P243 Take action to prevent static discharges.</li> <li>P312 Call a POISON CENTRE/doctor if you feel unwell.</li> <li>P337+P313 If eye irritation persists: Get medical advice/ attention.</li> <li>P405 Store locked up.</li> </ul>

### 2.3. Other hazards

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

### SECTION 3: Composition/information on ingredients

propan-2-ol		60-10
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01- 2119457558-25-XXXX
Classification		
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

General informationGet medical attention immediately. Show this Safety Data Sheet to the medical personnel.InhalationRemove affected person from source of contamination. Move affected person to fresh air and<br/>keep warm and at rest in a position comfortable for breathing. Maintain an open airway.<br/>Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained<br/>personnel may assist affected person by administering oxygen. Place unconscious person on

their side in the recovery position and ensure breathing can take place.

Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.
Skin contact	Rinse with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue. If it is suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
4.2. Most important symptoms	and effects, both acute and delayed
General information	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Irritating to eyes.
4.3. Indication of any immedia	te medical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	sures
5.1. Extinguishing media	
Suitable extinguishing media	The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising fr	om the substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
5.3. Advice for firefighters	

Protective actions during firefighting	Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

#### SECTION 6: Accidental release measures

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

Personal precautions No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

#### 6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

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

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No
	smoking, sparks, flames or other sources of ignition near spillage. Use only non-sparking
	tools. Use explosion-proof electrical equipment. Do not allow material to enter confined
	spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate
	in a safe place. Once evaporation is complete, place paper in a suitable waste disposal
	container and seal securely. Large Spillages: If the product is soluble in water, dilute the
	spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage
	with an inert, dry material and place it in a suitable waste disposal container. The
	contaminated absorbent may pose the same hazard as the spilled material. 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. Neutralise with alkali. Caution. May generate heat. Following dilution and
	neutralisation, discharge to the sewer with plenty of water may be permitted. The
	requirements of the local water authority must be complied with if contaminated water is
	flushed directly to the sewer. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

	original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.
	water pollution in the event of spillage. The storage area floor should be leak-tight, jointless
	and not absorbent.
Storage class	Flammable liquid storage
Storage class	Flammable liquid storage.
elorage class	
7.3 Specific end use(s)	
7.3. Specific end use(s)	
	The identified uses for this product are datailed in Castion 1.2
7.3. Specific end use(s) Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
Specific end use(s)	
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Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters	ols/Personal protection
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Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h	nour TWA): WEL 400 ppm 999 mg/m <sup>3</sup>
Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h	ols/Personal protection
Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h Short-term exposure limit (15	nour TWA): WEL 400 ppm 999 mg/m <sup>3</sup> i-minute): WEL 500 ppm 1250 mg/m <sup>3</sup>
Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h	nour TWA): WEL 400 ppm 999 mg/m <sup>3</sup> i-minute): WEL 500 ppm 1250 mg/m <sup>3</sup>
Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h Short-term exposure limit (15	nour TWA): WEL 400 ppm 999 mg/m <sup>3</sup> i-minute): WEL 500 ppm 1250 mg/m <sup>3</sup>
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Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h Short-term exposure limit (15	nour TWA): WEL 400 ppm 999 mg/m <sup>3</sup> i-minute): WEL 500 ppm 1250 mg/m <sup>3</sup>
Specific end use(s) SECTION 8: Exposure contro 8.1. Control parameters Occupational exposure limits propan-2-ol Long-term exposure limit (8-h Short-term exposure limit (15	nour TWA): WEL 400 ppm 999 mg/m <sup>3</sup> i-minute): WEL 500 ppm 1250 mg/m <sup>3</sup> Limit.

DNEL	Workers - Dermal; Long term systemic effects: 888 mg/kg/day Workers - Inhalation; Long term systemic effects: 500 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 26 mg/kg/day
PNEC	Fresh water; 140.9 mg/l marine water; 140.9 mg/l Intermittent release; 140.9 mg/l STP; 2251 mg/l Sediment; 552 mg/kg Soil; 28 mg/kg Secondary poisoning.; 160 mg/kg

### 8.2. Exposure controls

### Protective equipment





Appropriate engineering Provide adequate ventilation. Personal, workplace environment or biological monitoring may controls be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilating equipment. Eye/face protection Evewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Hand protection 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. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended. Other skin and body Appropriate footwear and additional protective clothing complying with an approved standard protection should be worn if a risk assessment indicates skin contamination is possible. Hygiene measures Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product. **Respiratory protection** Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and guarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Environmental exposure Keep container tightly sealed when not in use. controls **SECTION 9: Physical and chemical properties** 

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

Appearance	Clear liquid.
Colour	Pink.
Odour	Characteristic.

Odour threshold	Not determined.
рН	pH (concentrated solution): ~7
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	~ 0.9
Bulk density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not determined.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not determined.
Comments	Information given is applicable to the product as supplied.
9.2. Other information	
Other information	No relevant information available.
Refractive index	Not determined.
Particle size	Not determined.
Molecular weight	Not determined.
Volatility	Not determined.
Saturation concentration	Not determined.
Critical temperature	Not determined.
Volatile organic compound	Not determined.
SECTION 10: Stability and rea	ctivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
10.3. Possibility of hazardous	reactions
Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidising agents.
10.4. Conditions to avoid	
Conditions to avoid	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to heat or sources of ignition.
10.5. Incompatible materials	
Materials to avoid	Alkalis. Amines. Oxidising materials. Acids - oxidising.
10.6. Hazardous decompositio	on products
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
SECTION 11: Toxicological in	formation
11.1. Information on toxicologi	cal effects
Acute toxicity - oral	
Summary	Based on available data the classification criteria are not met.
Acute toxicity - dermal Summary	Based on available data the classification criteria are not met.
-	
Acute toxicity - inhalation Summary	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Summary	Based on available data the classification criteria are not met.
Extreme pH	Moderate pH ( > 2 and < 11.5).
Serious eye damage/irritation	
Summary	Causes serious eye irritation.
Respiratory sensitisation Summary	Based on available data the classification criteria are not met.
-	
Skin sensitisation Summary	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	
Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	

Summary	Based on available data the classification criteria are not met.
- Specific target organ toxicity -	
Summary	May cause drowsiness or dizziness.
Target organs	Central nervous system
Specific target organ toxicity -	repeated exposure
Summary	Based on available data the classification criteria are not met.
Aspiration hazard	
Summary	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Headache. Nausea, vomiting. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic effect.
Ingestion	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Irritating to eyes.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	Central nervous system
SECTION 12: Ecological infor	mation
SECTION 12: Ecological infor Ecotoxicity	mation Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
	Not regarded as dangerous for the environment. However, large or frequent spills may have
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary Chronic aquatic toxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met.
Ecotoxicity 12.1. Toxicity Acute aquatic toxicity Summary	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potentia</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <u>ability</u> The degradability of the product is not known.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potentia</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>a</b> No data available on bioaccumulation.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulative potential Partition coefficient	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. <b>ability</b> The degradability of the product is not known. <b>a</b> No data available on bioaccumulation.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulative potential Partition coefficient <u>12.4. Mobility in soil</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. ability The degradability of the product is not known. al No data available on bioaccumulation. Not determined. The product is water-soluble and may spread in water systems. The product is non-volatile.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulative potential Partition coefficient <u>12.4. Mobility in soil</u> Mobility	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. ability The degradability of the product is not known. al No data available on bioaccumulation. Not determined. The product is water-soluble and may spread in water systems. The product is non-volatile.
Ecotoxicity <u>12.1. Toxicity</u> <u>Acute aquatic toxicity</u> Summary <u>Chronic aquatic toxicity</u> Summary <u>12.2. Persistence and degrada</u> Persistence and degradability <u>12.3. Bioaccumulative potential</u> Bioaccumulative potential Partition coefficient <u>12.4. Mobility in soil</u> Mobility <u>12.5. Results of PBT and vPvB</u>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. ability The degradability of the product is not known. al Not data available on bioaccumulation. Not determined. The product is water-soluble and may spread in water systems. The product is non-volatile. Basessment

nown.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is

labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Vapour from residual product may create a highly flammable or explosive atmosphere inside the container. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

### **SECTION 14: Transport information** 14.1. UN number UN No. (ADR/RID) 1993 UN No. (IMDG) 1993 UN No. (ICAO) 1993 UN No. (ADN) 1993 14.2. UN proper shipping name Proper shipping name FLAMMABLE LIQUID, N.O.S. CONTAINS PROPAN-2-OL (ADR/RID) Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. CONTAINS PROPAN-2-OL Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. CONTAINS PROPAN-2-OL Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. CONTAINS PROPAN-2-OL 14.3. Transport hazard class(es) ADR/RID class 3 F1 ADR/RID classification code ADR/RID label 3 IMDG class 3 ICAO class/division 3 ADN class 3

## Transport labels



14.4. Packing group			
ADR/RID packing group	II		
IMDG packing group	II		
ICAO packing group	II		
ADN packing group	II		
14.5. Environmental hazards			
Environmentally hazardous substance/marine pollutant No.			
14.6. Special precautions for user			
EmS	F-E, S-E		
ADR transport category	2		
Emergency Action Code	•3YE		
Hazard Identification Number (ADR/RID)	33		
Tunnel restriction code	(D/E)		
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code			

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

## SECTION 15: Regulatory information

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

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
EU legislation	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). Commission Regulation (EU) No 2015/830 of 28 May 2015. 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).

### 15.2. Chemical safety assessment

### Inventories

## **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

### SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LCso: Lethal Concentration to 50 % of a test population.</li> <li>LDso: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>ECso: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Classification abbreviations and acronyms	Flam. Liq. = Flammable liquid Eye Irrit. = Eye irritation STOT SE = Specific target organ toxicity-single exposure
Classification procedures according to Regulation (EC) 1272/2008	STOT SE 3 - H336: Eye Irrit. 2 - H319: : Calculation method. Flam. Liq. 2 - H225: : Expert judgement.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Revision date	20/05/2021
Revision	1
Hazard statements in full	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

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.