

SAFETY DATA SHEET

Ultrasolve

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 substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	Ultrasolve	
Product number	ULS-b, EULS01L, EULS05L, EULS25L, ULS-p, EULS12P, ZE	
1.2. Relevant identified uses of	of the substance or mixture and uses advised against	
Identified uses	Cleaning agent.	
Uses advised against	No specific uses advised against are identified.	
1.3. Details of the supplier of the supplicit states and the supplicit states are supplied as the supplicit states are supplicit. The supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicit states are supplicit. The supplicit states are supplicit states are supplicits are supplicit. The	the safety data sheet	
Supplier	ELECTROLUBE. A division of HK WENTWORTH LTD ASHBY PARK, COALFIELD WAY, ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR UNITED KINGDOM +44 (0)1530 419600 +44 (0)1530 416640 info@hkw.co.uk	
1.4. Emergency telephone nu	mber	
Emergency telephone	IN CASE OF EMERGENCY CALL: +44 1865 407333 (24hr, Provided by Carechem 24) +353 (0)1 809 2166 (Beaumont Hospital, Republic of Ireland only, 8am-10pm, 7 days a week)	
SECTION 2: Hazards identific	ation	
2.1. Classification of the subs	tance or mixture	
Classification (EC 1272/2008)		
Physical hazards	Flam. Liq. 2 - H225	
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304	
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
2.2. Label elements Pictogram		
Signal word	Danger	

Hazard statements	 H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H410 Very 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. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.
Contains	Cyclohexane, Propan-2-ol, 1-Methoxy-2-propanol, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics
Supplementary precautionary statements	 P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. 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. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P312 Call a POISON CENTRE/doctor if you feel unwell. P331 Do NOT induce vomiting. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. P403+P235 Store in a well-ventilated place. Keep cool.

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

Cyclohexane		30-609
CAS number: 110-82-7	EC number: 203-806-2	REACH registration number: 01- 2119463273-41-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
Propan-2-ol		10-30
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		
1-Methoxy-2-propanol		10-309
CAS number: 107-98-2	EC number: 203-539-1	REACH registration number: 01- 2119457435-35-XXXX
Classification		
Flam. Liq. 3 - H226		
STOT SE 3 - H336		
Hydrocarbons, C7, n-alkanes, iso	alkanes, cyclics	10-309
CAS number: 64742-49-0	EC number: 927-510-4	REACH registration number: 01-
		2119475515-33-XXXX
Classification		
Flam. Liq. 2 - H225		
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		
The full text for all hazard stateme	nts is displayed in Section 16.	
SECTION 4: First aid measures		
CTION 4: First aid measures		

4.1. Description of first aid measures

General information

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

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. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained 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. Remove any dentures. 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	May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.	
Skin contact	Redness. Irritating to 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 from 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. Avoid discharge to the aquatic environment. 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. Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

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. Do not allow material to enter confined spaces, due to the risk of explosion. Approach the spillage from upwind. Small 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. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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 har	ndling
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. In use may form flammable/explosive vapour-air mixture. Vapours may accumulate on the floor and in low-lying areas. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.
7.2. Conditions for safe stora	age, including any incompatibilities
Storage precautions	Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Eliminate all sources of ignition. Take precautionary measures against static discharges. Earth container and transfer equipment to eliminate sparks from static electricity. Keep away from oxidising materials, heat and flames. Keep only in the 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.
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 contr	ols/Personal protection

8.1. Control parameters

Occupational exposure limits

Cyclohexane

Long-term exposure limit (8-hour TWA): WEL 100 ppm 350 mg/m³ Short-term exposure limit (15-minute): WEL 300 ppm 1050 mg/m³

Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

1-Methoxy-2-propanol

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³ Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³ Sk

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment





Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk
	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.
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
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
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.
Eye/face protection	Eyewear 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.
Appropriate engineering controls	Provide adequate ventilation. Personal, workplace environment or biological monitoring may 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.

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Solvent.

pН	Not available.
Melting point	Not available.
Initial boiling point and range	> 80°C/176°F
Flash point	-20°C/-4°F
Evaporation rate	16 (diethyl ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Bulk density	0.79 kg/l
Solubility(ies)	Not available.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
9.2. Other information	
9.2. Other information SECTION 10: Stability and rea	activity
SECTION 10: Stability and real	
SECTION 10: Stability and rea 10.1. Reactivity Reactivity	activity See the other subsections of this section for further details.
SECTION 10: Stability and rea 10.1. Reactivity Reactivity 10.2. Chemical stability	See the other subsections of this section for further details.
SECTION 10: Stability and rea 10.1. Reactivity Reactivity	
SECTION 10: Stability and rea 10.1. Reactivity Reactivity 10.2. Chemical stability	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
SECTION 10: Stability and rea 10.1. Reactivity Reactivity 10.2. Chemical stability Stability	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. reactions
SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. reactions
SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. reactions The following materials may react strongly with the product: Oxidising agents. 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
SECTION 10: Stability and read 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. reactions The following materials may react strongly with the product: Oxidising agents. 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
SECTION 10: Stability and reading 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials	See the other subsections of this section for further details. Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions. reactions The following materials may react strongly with the product: Oxidising agents. 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. Oxidising materials. Acids - oxidising.

SECTION 11: Toxicological information

U			
11.1. Information on toxicological effects			
Acute toxicity - oral Notes (oral LD₅o)	Based on available data the classification criteria are not met.		
Acute toxicity - dermal			
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.		
Acute toxicity - inhalation Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.		
Skin corrosion/irritation			
Animal data	Irritating.		
Serious eye damage/irritation			
Serious eye damage/irritation	Causes serious eye irritation.		
Respiratory sensitisation Respiratory sensitisation	Based on available data the classification criteria are not met.		
Skin sensitisation			
Skin sensitisation	Based on available data the classification criteria are not met.		
Germ cell mutagenicity Genotoxicity - in vitro	Based on available data the classification criteria are not met.		
Carcinogenicity	Dased on available data the classification chilena are not met.		
Carcinogenicity	Based on available data the classification criteria are not met.		
IARC carcinogenicity	Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable as to its carcinogenicity to humans.		
Reproductive toxicity			
Reproductive toxicity - fertility			
Reproductive toxicity - development	Based on available data the classification criteria are not met.		
Specific target organ toxicity -	single exposure		
STOT - single exposure	STOT SE 3 - H336 May cause drowsiness or dizziness.		
Target organs	Central nervous system		
Specific target organ toxicity -			
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.		
Aspiration hazard Aspiration hazard	Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the		
	result if vomited material containing solvents reaches the lungs.		
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		May cause irritation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.	
Skin contact	act Redness. Irritating to skin.		
Eye contact	ontact Irritating to eyes.		
Route of expos	sure Ingestion Inhalation Skin and/or eye contact		
Target organs	get organs Central nervous system		
Toxicological in	formation on in	ngredients.	
		Propan-2-ol	
Ac	cute toxicity - de	ermal	
No	otes (dermal LI	D₅₀) LD₅₀ 5840 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.	
S	kin corrosion/irr	ritation	
Ar	nimal data	Primary dermal irritation index: 0 REACH dossier information. Based on available data the classification criteria are not met.	
<u>Se</u>	erious eye dam	nage/irritation	
	erious eye amage/irritation	Dose: 0.1 mL, 1 second, Rabbit Causes serious eye irritation.	
S	kin sensitisatior	<u>n</u>	
Sł	kin sensitisatior	n Buehler test - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.	
G	erm cell mutage	enicity	
G	enotoxicity - in	vitro Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
G	enotoxicity - in	vivo Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Ca	arcinogenicity		
Ca	arcinogenicity	NOAEL 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.	
IA	RC carcinogen	icity IARC Group 3 Not classifiable as to its carcinogenicity to humans.	
Sp	Specific target organ toxicity - single exposure		
ST	TOT - single ex	(posure STOT SE 3 - H336 May cause drowsiness or dizziness.	
Та	arget organs	Central nervous system	
<u>Sr</u>	pecific target or	rgan toxicity - repeated exposure	
ST	TOT - repeated	I exposure NOAEC 5000 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.	
		1-Methoxy-2-propanol	
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Acute toxicity - oral Acute toxicity oral (LD₅o 3,739.0 mg/kg)

Species	Rat	
Notes (oral LD₅₀)	LD₅₀ 3739 mg/kg, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.	
ATE oral (mg/kg)	3,739.0	
Acute toxicity - dermal		
Notes (dermal LD₅₀)	LD₅₀ >2000 mg/kg, Dermal, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Skin corrosion/irritation		
Animal data	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). REACH dossier information. Based on available data the classification criteria are not met.	
Skin sensitisation		
Skin sensitisation	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier information. Based on available data the classification criteria are not met.	
Germ cell mutagenicity		
Genotoxicity - in vitro	Gene mutation: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Genotoxicity - in vivo	Chromosome aberration: Negative. REACH dossier information. Based on available data the classification criteria are not met.	
Carcinogenicity		
Carcinogenicity	NOEL 3000 ppm, Inhalation, Mouse REACH dossier information. Based on available data the classification criteria are not met.	
Reproductive toxicity		
Reproductive toxicity - fertility	Two-generation study - NOAEL 1000 ppm, Inhalation, Rat F1 REACH dossier information. Based on available data the classification criteria are not met.	
Reproductive toxicity - development	Teratogenicity: - NOAEL: 1500 ppm, Inhalation, Rat REACH dossier information. Based on available data the classification criteria are not met.	
Specific target organ toxici	ty - single exposure	
STOT - single exposure	STOT SE 3 - H336 May cause drowsiness or dizziness. REACH dossier information.	
Target organs	Central nervous system Brain	
Specific target organ toxicity - repeated exposure		
STOT - repeated exposure	NOAEL 919 mg/kg/day, Oral, Rat REACH dossier information. Based on available data the classification criteria are not met.	
	2-Methoxypropanol	
Acute toxicity - oral		
Notes (oral LD∞)	LD₅₀ 5710 mg/kg, Oral, Rat Based on available data the classification criteria are not met.	
Acute toxicity - dermal		
Notes (dermal LD₅₀)	LD₅₀ 5660 mg/kg, Dermal, Rabbit Based on available data the classification criteria are not met.	

Revision: 1

Ultrasolve

Skin corrosion/irritation		
Skin corrosion/irritation	Irritating to skin.	
Serious eye damage/irritat	Serious eye damage/irritation	
Serious eye damage/irritation	May cause serious eye damage.	
Reproductive toxicity		
Reproductive toxicity - development	Maternal toxicity: - Dose level:: 545 ppm, Inhalation, Rabbit May damage the unborn child.	
Specific target organ toxici	Specific target organ toxicity - single exposure	
STOT - single exposure	STOT SE 3 - H335 May cause respiratory system irritation.	
Target organs	Respiratory system, lungs	
SECTION 12: Ecological information		

12.1. Toxicity

Toxicity

Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

Cyclohexane

Ecological information on ingredients.

Acute aquatic toxicity		
LE(C)50	0.1 < L(E)C50 ≤ 1	
M factor (Acute)	1	
Acute toxicity - fish	LC₀₀, 4 days: 4.5 mg/l, Pimephales promelas (Fat-head Minnow)	
Acute toxicity - aquatic invertebrates	EC₅₀, 2 days: 0.9 mg/l, Daphnia magna	
Acute toxicity - aquatic plants	EC₅₀, 3 days: 9.317 mg/l, Selenastrum capricornutum	
Chronic aquatic toxicity		
M factor (Chronic)	1	
Propan-2-ol		
Toxicity	Aquatic toxicity is unlikely to occur. Based on available data the classification criteria are not met.	
Acute aquatic toxicity		
Acute toxicity - fish	LC_{50} , 96 hours: 10000 mg/l, Pimephales promelas (Fat-head Minnow)	
Acute toxicity - aquatic invertebrates	LC₅₀, 24 hours: >10000 mg/l, Daphnia magna	
Acute toxicity - aquatic plants	EC₅₀, 7 days: 1800 mg/l, Scenedesmus quadricauda	
	1-Methoxy-2-propanol	

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: 20800 mg/l, Pimephales promelas (Fat-head Minnow) REACH dossier information.
Acute toxicity - aquatic invertebrates	LC₅₀, 48 hours: 21100 mg/l, Daphnia magna REACH dossier information.
Acute toxicity - aquatic plants	EC₅₀, 7 days: >1000 mg/l, Selenastrum capricornutum REACH dossier information.
	2-Methoxypropanol
Acute aquatic toxicity	
Acute toxicity - fish	LC₅₀, 96 hours: >1006 mg/l, Fish, Estimated value.
Acute toxicity - aquatic	EC₅₀, 48 hours: >13205 mg/l, Daphnia magna, Estimated value.

12.2. Persistence and degradability

invertebrates

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Propan-2-ol

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	Water - Degradation 53%: 5 days
Biological oxygen demand	1.19-1.72 g O ₂ /g substance
Chemical oxygen demand	2.23 g O₂/g substance
	1-Methoxy-2-propanol
Persistence and degradability	The substance is readily biodegradable.
Phototransformation	Water - DT₅₀ : 3.1 hours REACH dossier information.
Biodegradation	Water - Degradation 96%: 28 days REACH dossier information.
	2-Methoxypropanol
Biodegradation	No data available.
12.3. Bioaccumulative potential	
Bioaccumulative potential No data available on bioaccumulation.	

Partition coefficient Not available.

Ecological information on ingredients.

Cyclohexane

Partition coefficient

log Kow: 3.44

Propan-2-ol

	Bioaccumulative potential	Bioaccumulation is unlikely.
		1-Methoxy-2-propanol
	Bioaccumulative potential	No data available on bioaccumulation.
	Partition coefficient	log Pow: <1 REACH dossier information.
		2-Methoxypropanol
	Bioaccumulative potential	BCF: ~ 1 - 10, Estimated value. Bioaccumulation is unlikely.
12.4. Mobili	ty in soil	
Mobility	No data	available.
Ecological i	nformation on ingredients.	
		Propan-2-ol
	Mobility	The product is soluble in water.
		1-Methoxy-2-propanol
	Mobility	Mobile.
	Surface tension	70.7 mN/m @ 20°C
		2-Methoxypropanol
	Mobility	Soluble in water.
	Adsorption/desorption coefficient	- log Kow: ~ (-0.45) - (-0.49) @ 25°C Calculation method Log Koc: ~ 0.0 - 1.13 @ 25°C Calculation method.
12.5. Resul	ts of PBT and vPvB assessm	nent
Ecological i	nformation on ingredients.	
		Propan-2-ol
	Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.
		1-Methoxy-2-propanol
	Results of PBT and vPvB assessment	This substance is not classified as PBT or vPvB according to current EU criteria.
		2-Methoxypropanol
	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 adve	rse effects None kn	own.
SECTION 1	3: Disposal considerations	
13.1. Waste	e 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 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 inform	nation	
General	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.	
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 nam	e	
Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Cyclohexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	
Proper shipping name (IMDG)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Cyclohexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	
Proper shipping name (ICAO)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Cyclohexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	
Proper shipping name (ADN)	FLAMMABLE LIQUID, N.O.S. (CONTAINS Cyclohexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics)	
14.3. Transport hazard class(es)		
ADR/RID class	3	
ADR/RID classification code	F1	
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



14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information	
SECTION 16: Other information Abbreviations and acronyms used in the safety data sheet	 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC₅₀: Lethal Concentration to 50 % of a test population. LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose). EC₅₀: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance.
Classification abbreviations and acronyms	 vPvB: Very Persistent and Very Bioaccumulative. Flam. Liq. = Flammable liquid Asp. Tox. = Aspiration hazard Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation STOT SE = Specific target organ toxicity-single exposure Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Classification procedures according to Regulation (EC) 1272/2008	Asp. Tox. 1 - H304: STOT SE 3 - H336: Skin Irrit. 2 - H315: Eye Irrit. 2 - H319: : Calculation method. Aquatic Acute 1 - H400: Aquatic Chronic 1 - H410: : Calculation method. Flam. Liq. 2 - H225: : Expert judgement.
Training advice	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
Issued by	Bethan Massey
Revision date	23/08/2018
Revision	1
SDS number	836
Hazard statements in full	 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. 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.

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.