

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 26-Jun-2024

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Revision Number 3

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

1.1. Product identifier

Product Code(s) 53917
Safety data sheet number 53917
Product Name ECOSURF SA 7 SURFACTANT

Pure substance/mixture Mixture

Contains ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED

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

Recommended use Multi-purpose surfactant.

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2 - (H319)
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2.2. Label elements

Contains ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED

**Signal word**

Warning

Hazard statements

H319 - Causes serious eye irritation

Precautionary statements

P264 - Wash skin thoroughly after handling

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

2.3. Other hazards

In case of spills, beware of slippery floors and surfaces.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED 68937-66-6	55.0 - 80.0 %	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED 69227-22-1	15.0 - 40.0 %	-	-	Eye Irrit. 2 (H319)	-	-	-
POLYETHYLENE GLYCOL 25322-68-3	1.0 - 2.0 %	500-038-2	-	Not Classified	-	-	-
C10-C16 ALCOHOLS 67762-41-8	>= 0.6 - < 1.0 %	267-019-6	-	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1
ALCOHOLS, C6-12	>= 0.6 - <	271-642-9	-	Aquatic Chronic 1	-	1	1

68603-15-6	1.0 %			(H410) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315)			
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Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures**4.1. Description of first aid measures**

General advice	First aid personnel should wear appropriate protective equipment during any rescue. Use personal protection recommended in Section 8.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur. Ensure that eyewash stations and safety showers are close to the workstation location.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms**

Eyes	Causes serious eye irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat any burns as thermal burns, after decontamination. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	When heated and in case of fire, toxic vapours/gases may be formed. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids..
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Hazardous combustion products Carbon oxides.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Evacuate personnel to safe areas. Keep unnecessary and unprotected personnel from entering. In case of spills, beware of slippery floors and surfaces. Keep personnel out of low areas.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain spilled material if possible. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Wash skin thoroughly after handling.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
POLYETHYLENE GLYCOL 25322-68-3		112 mg/kg bw/day [4] [6]	40.2 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
POLYETHYLENE GLYCOL 25322-68-3	40 mg/kg bw/day [4] [6]		7.14 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
POLYETHYLENE GLYCOL 25322-68-3	0.273 g/L	1 mg/L	27.3 mg/L	0.1 mg/L	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
POLYETHYLENE GLYCOL 25322-68-3	1030 mg/kg sediment dw	103 mg/kg sediment dw		46.4 mg/kg soil dw	

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN ISO 16321-1.

Hand protection Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves	> 0.35 mm	> 120 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 120 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 120 minutes
	Nitrile/butadiene rubber ("nitrile" or "NBR").	> 0.35 mm	> 120 minutes

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection Use appropriate respiratory protection.
Recommended filter type: Organic gases and vapours filter conforming to EN 14387. Type AP2.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state Liquid
Appearance Liquid
Colour yellow
Odour Mild.
Odour threshold No information available

<u>Property</u>	<u>Values</u>
Melting point / freezing point	
Initial boiling point and boiling range	> 250 °C
Flammability	
Flammability Limit in Air	
Upper flammability or explosive limits	
Lower flammability or explosive limits	
Flash point	240 °C
Autoignition temperature	
Decomposition temperature	
pH	6.5
pH (as aqueous solution)	
Kinematic viscosity	23.08 cSt
Dynamic viscosity	
Water solubility	partially soluble
Solubility(ies)	
Partition coefficient	log Pow: 4.3 - 5.36
Vapour pressure	< 0.01 mmHg

Remarks • Method

Not applicable. See Pour Point.
 Calculation method. Decomposes prior to boiling.
 Not applicable.
 Not applicable.

 Closed cup. (ASTM D93).
 Not applicable.
 No information available.
 solution (1 %). ASTM E70.
 No information available.
 @ 40 °C. Calculation method.
 No information available.

 No information available.
 Estimated.
 @ 20 °C. Calculation method.

Relative density	0.9625	@ 40 °C. Calculation method.
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density	> 10	Calculation method.
Particle characteristics		Not applicable. liquid.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

Pour Point 4 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Conditions to avoid Product may decompose at elevated temperatures.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects**Information on likely routes of exposure****Product Information**

Inhalation Inhalation of vapours in high concentration may cause irritation of respiratory system.

Eye contact Causes serious eye irritation. May cause eye irritation. May cause corneal injury.

Skin contact Brief contact may cause moderate skin irritation with local redness. Dryness and/or cracking.

Ingestion

May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms****Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50

Oral LD50 > 2000 mg/kg

Dermal LD50

Dermal LD50 > 2000 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED	616 mg/kg (Rat)	5660 mg/kg (Rabbit)	> 8.0 mg/l (Rat) (1h)
ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
POLYETHYLENE GLYCOL	> 10000 mg/kg (Rat)	> 20000 mg/kg (Rat)	> 2.5 mg/l (Rat) (6h)
C10-C16 ALCOHOLS	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	18.3 mg/l (Rat) (4h)
ALCOHOLS, C6-12	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 0.237 mg/l (Rat) (4h)

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Brief contact may cause moderate skin irritation with local redness. Dryness and/or cracking.

ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED (68937-66-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact may cause moderate skin irritation with local redness.

ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED (69227-22-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact may cause slight skin irritation with local redness.

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Prolonged exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched or cut).

C10-C16 ALCOHOLS (67762-41-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact may cause skin irritation with local redness.

ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact may cause moderate skin irritation with local redness.

Serious eye damage/eye irritation Causes serious eye irritation. May cause eye irritation. May cause corneal injury.

ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED (68937-66-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye damage May cause permanent damage if eye is not immediately irrigated. Causes eye burns

ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED (69227-22-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause eye irritation May cause corneal injury.

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation Corneal injury is unlikely

C10-C16 ALCOHOLS (67762-41-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause eye irritation

ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause moderate eye irritation. Effects may be slow to heal.

Respiratory or skin sensitisation Not a skin sensitiser.

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED (69227-22-1)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser
	Human evidence	Dermal	Not a skin sensitiser

C10-C16 ALCOHOLS (67762-41-8)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity Not mutagenic.

Product Information			
Method	Species		Results
	in vitro		Negative

Component Information

ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED (69227-22-1)

Method	Species	Results
	in vitro	Negative

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Results
	in vitro	Negative
	Animal Data.	Negative

C10-C16 ALCOHOLS (67762-41-8)

Method	Species	Results
	in vitro	Negative

ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Results
	in vitro	Negative

Carcinogenicity No information available.

Component Information

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Results
		Did not cause cancer in laboratory animals.

Reproductive toxicity No information available.

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Results
		For similar material(s): In animal studies, did not interfere with reproduction

STOT - single exposure No information available.

ALCOHOLS, C10-16, ETHOXYLATED, PROPOXYLATED (69227-22-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

STOT - repeated exposure No information available.

Component Information

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Recent findings of kidney failure and death in burn patients, as well as some studies using animal burn models, suggest that polyethylene glycol may have been a factor. The use of topical applications containing this material may not be appropriate in severely burned patients. Based on available data, repeated exposures are not anticipated to cause significant adverse effects

C10-C16 ALCOHOLS (67762-41-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, repeated

					exposures are not anticipated to cause significant adverse effects
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ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, repeated exposures are not anticipated to cause significant adverse effects

Aspiration hazard

Based on available data the classification criteria are not met.

Other adverse effects

No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

Not considered to be harmful to aquatic life.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent.	Daphnia magna	EC50	1.45 - 1.79 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test or Equivalent.	Desmodesmus subspicatus	ErC50	2.58 - 3.44 mg/L	72 hours	

ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED (68937-66-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.	Pimephales promelas	LC50	13.3 mg/L	96 hours	
	Daphnia magna	EC50	12.3 mg/L	48 hours	
	Bacteria	IC50	220 - 770 mg/L	16 hours	

POLYETHYLENE GLYCOL (25322-68-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.	Pimephales promelas	LC50	> 10000 mg/L	96 hours	
Acute toxicity	Daphnia magna	LC50	> 10000 mg/L	48 hours	
Acute toxicity	Skeletonema costatum	EbC50	14853 mg/L	3 days	

C10-C16 ALCOHOLS (67762-41-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Other guidelines	Salmo gairdneri	LC50	4 - 10 mg/L	96 hours	
Other guidelines	Carassius auratus	LC50	> 2.4 mg/L	96 hours	

OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent.	Daphnia magna	EL50	0.23 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test or Equivalent.	Raphidocelis subcapitata	EL50	0.1 - 0.3 mg/L	72 hours	

ALCOHOLS, C6-12 (68603-15-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Other guidelines	Freshwater Fish	LC50	0.7 - 0.8 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent.	Daphnia magna	EC50	5.9 mg/L	48 hours	
Other guidelines	Selenastrum capricornutum	ErC50	2.7 mg/L	72 hours	
Other guidelines	Selenastrum capricornutum	NOEC	1 mg/L	72 hours	

12.2. Persistence and degradability**Persistence and degradability** Readily biodegradable.

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) or Equivalent.	28 days	Biodegradation > 60 %	Readily biodegradable

ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED (68937-66-6)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation > 60 %	Readily biodegradable
OECD Test No. 302B: Inherent Biodegradability: Zahn-Wellens/ EVPA Test	28 days	Biodegradation > 70 %	Readily biodegradable

POLYETHYLENE GLYCOL (25322-68-3)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) or Equivalent.	28 days	Biodegradation 90 %	Readily biodegradable
OECD Test No. 306: Biodegradability in Seawater or Equivalent.	28 days	Biodegradation 55 %	Readily biodegradable

C10-C16 ALCOHOLS (67762-41-8)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) or Equivalent.	28 days	Biodegradation 87 %	Readily biodegradable

ALCOHOLS, C6-12 (68603-15-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready	28 days	Biodegradation 64 %	Readily biodegradable

Biodegradability: CO ₂ Evolution Test (TG 301 B) or Equivalent.			
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12.3. Bioaccumulative potential

Bioaccumulation Log Pow 4.3 - 5.36. Estimated.

Bioconcentration factor (BCF) 1.1 - 1.8 Fish Estimated

Chemical name	Partition coefficient
ALCOHOLS, C6-12, ETHOXYLATED PROPOXYLATED	2.08
POLYETHYLENE GLYCOL	< 2.25
C10-C16 ALCOHOLS	4.8
ALCOHOLS, C6-12	2.3 - 4.2

12.4. Mobility in soil

Mobility in soil partially soluble.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
POLYETHYLENE GLYCOL	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

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

Waste from residues/unused products Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC, provided it fulfils the criteria listed in Annex III of this directive. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated

14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECI - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No Chemical Safety Assessment has been carried out for this substance/mixture

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed
 H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note **SDS sections updated 1 2 3 4 6 7 8 9 11 12 13 15 16**

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method

Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet