

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

Supersedes date 22-Jun-2020***

Revision date 29-Jul-2024

Revision Number 2.01

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

1.1. Product identifier

Product Code(s) 60551***
Safety data sheet number 60551***
Product Name UCARE POLYMER JR 400

Pure substance/mixture Mixture***
Molecular weight 200 - 800***

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

Recommended use Conditioning Polymer***

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

Chronic aquatic toxicity	Category 2*** - (H411)***
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2.2. Label elements

**Hazard statements**

H411 - Toxic to aquatic life with long lasting effects***

Precautionary statements

P273 - Avoid release to the environment

P391 - Collect spillage

P501 - Dispose of contents/ container to an approved waste disposal plant***

Unknown aquatic toxicity

2.3. Other hazards

No information available.

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)
CATIONIC HYDROXYETHYL CELLULOSE*** 68610-92-4	90 - 100%	-	-	Aquatic Chronic 2 (H411)***	-	-	-
WATER*** 7732-18-5	0 - 10%	231-791-2***	-	Not Classified***	-	-	-
SODIUM ACETATE*** 127-09-3	0 - 10%	204-823-8***	-	-	-	-	-
SODIUM CHLORIDE*** 7647-14-5	0 - 10%	231-598-3***	-	Not Classified***	-	-	-
PROPAN-2-OL *** 67-63-0	0 - 10%	200-661-7 (603-117-00-0)***	-	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319) STOT SE 3 (H336)***	-	-	-

Full text of H- and EUH-phrases: see section 16This 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

Inhalation	Remove to fresh air. Get medical attention if symptoms occur.***
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth.

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

Eyes	May cause temporary eye irritation.***
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Carbon dioxide (CO2). Dry chemical.***
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	Dust can form an explosive mixture with air.***
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.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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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	Dust can form an explosive mixture with air.***
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.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Dust can form an explosive mixture with air.***
General hygiene considerations	Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.***
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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.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits** ***

Chemical name	United Kingdom
PROPAN-2-OL *** 67-63-0	TWA: 400 ppm TWA: 999 mg/m ³ STEL: 500 ppm STEL: 1250 mg/m ³ ***

Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
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Derived No Effect Level (DNEL) - Workers ***

Chemical name	Oral	Dermal	Inhalation
SODIUM ACETATE*** 127-09-3		12 mg/kg bw/day [4] [6] 72 mg/kg bw/day [4] [7]***	1057.9 mg/m ³ [4] [6] 6347.36 mg/m ³ [4] [7]***
SODIUM CHLORIDE*** 7647-14-5		295.52 mg/kg bw/day [4] [6] 295.52 mg/kg bw/day [4] [7]***	2068.62 mg/m ³ [4] [6] 2068.62 mg/m ³ [4] [7]***

Chemical name	Oral	Dermal	Inhalation
PROPAN-2-OL *** 67-63-0		888 mg/kg bw/day [4] [6]***	500 mg/m ³ [4] [6]***

[4] Systemic health effects.***
 [6] Long term.***
 [7] Short term.***

Derived No Effect Level (DNEL) - General Public ***

Chemical name	Oral	Dermal	Inhalation
SODIUM ACETATE*** 127-09-3	6 mg/kg bw/day [4] [6] 36 mg/kg bw/day [4] [7]***	36 mg/kg bw/day [4] [6] 36 mg/kg bw/day [4] [7]***	521.73 mg/m ³ [4] [6] 3103.45 mg/m ³ [4] [7]***
SODIUM CHLORIDE*** 7647-14-5	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]***	126.65 mg/kg bw/day [4] [6] 126.65 mg/kg bw/day [4] [7]***	443.28 mg/m ³ [4] [6] 443.28 mg/m ³ [4] [7]***
PROPAN-2-OL *** 67-63-0	26 mg/kg bw/day [4] [6]***		89 mg/m ³ [4] [6]***

[4] Systemic health effects.***
 [6] Long term.***
 [7] Short term.***

Predicted No Effect Concentration (PNEC) ***

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
SODIUM ACETATE*** 127-09-3	0.1 mg/l***		0.01 mg/l***		
SODIUM CHLORIDE*** 7647-14-5	5 mg/L ***	19 mg/l***			
PROPAN-2-OL *** 67-63-0	140.9 mg/L ***	140.9 mg/L ***	140.9 mg/L ***		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
SODIUM ACETATE*** 127-09-3	0.000402 mg/kg***	0.00004 mg/kg***	0.72 g/L ***	0.000402 mg/kg***	
SODIUM CHLORIDE*** 7647-14-5			500 mg/L***	4.86 mg/kg soil dw***	
PROPAN-2-OL *** 67-63-0	552 mg/kg sediment dw***	552 mg/kg sediment dw***	2251 mg/L ***	28 mg/kg soil dw***	160 mg/kg food***

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 166.***

Hand protection 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
	Neoprene gloves Nitrile rubber Polyvinyl chloride (PVC)***	0.35 mm***	

Skin and body protection

No special protective equipment required.

Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid***
Appearance	Powder***
Colour	White/off-white***
Odour	Amine.***
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	160*** °C***	***
Initial boiling point and boiling range		No information available.
Flammability		May form combustible dust concentrations in air.***
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		No information available.
Autoignition temperature	320*** °C***	***
Decomposition temperature		No information available.
pH	5.0*** -*** 7.0***	***
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity		No information available.
Water solubility	Soluble in water***	***
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure		No information available.
Relative density		No information available.
Bulk density	395.7***	***
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.***	
Oxidising properties	Does not meet the criteria for classification as oxidising***	

9.2. Other information

Molecular weight	200 - 800***
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity Stable under recommended storage conditions.***

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 Excessive heat. Hygroscopic.***

10.5. Incompatible materials

Incompatible materials 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 May cause irritation.***

Eye contact May cause temporary eye irritation.***

Skin contact May cause slight irritation.***

Ingestion Gastrointestinal discomfort.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

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

Component Information ***

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
CATIONIC HYDROXYETHYL CELLULOSE***	LD50: > 10 000 mg/kg (Rat)***	LD50: > 2000 mg/kg (Rat)***	-
SODIUM ACETATE***	> 3500 mg/kg (Rat)***	> 10000 mg/kg (Rabbit)***	> 30 mg/L (Rat) 1 h***
SODIUM CHLORIDE***	> 3500 mg/kg (Rat)***	10000 mg/kg (Rabbit)***	> 42 mg/L (Rat) 1 h***
PROPAN-2-OL***	= 5840 mg/kg (Rat)***	> 12800 mg/kg (Rabbit)***	30.1002 mg/L***

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation** No information available.

SODIUM ACETATE (127-09-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					non-irritant***

SODIUM CHLORIDE (7647-14-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Prolonged contact may cause redness and irritation***

PROPAN-2-OL (67-63-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion***	Rabbit***	Dermal***		4 hours***	May cause slight irritation***

Serious eye damage/eye irritation No information available.

SODIUM ACETATE (127-09-3)

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

SODIUM CHLORIDE (7647-14-5)

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

PROPAN-2-OL (67-63-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion***	Rabbit***	eye***			Causes serious eye irritation***

Respiratory or skin sensitisation No information available.

SODIUM ACETATE (127-09-3)

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

SODIUM CHLORIDE (7647-14-5)

Method	Species	Exposure route	Results

		Inhalation***	No signs of respiratory sensitization have been reported.***
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PROPAN-2-OL (67-63-0)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation***	Guinea pig***		No sensitisation responses were observed***

Germ cell mutagenicity

No information available.

Component Information

SODIUM ACETATE (127-09-3)

Method	Species	Results
	in vitro***	Negative***
	in vivo***	Negative Did not show mutagenic effects in animal experiments***

SODIUM CHLORIDE (7647-14-5)

Method	Species	Results
	in vitro***	Negative***
		Negative Did not show mutagenic effects in animal experiments***

PROPAN-2-OL (67-63-0)

Method	Species	Results
OECD Test No. 471: Bacterial Reverse Mutation Test***	Ames Test***	Negative***
OECD Test No. 476: In Vitro Mammalian Cell Gene Mutation Tests using the Hprt and xprt genes***	in vitro***	Negative***
OECD Test No. 474: Mammalian Erythrocyte Micronucleus Test***	Mouse***	Negative***

Carcinogenicity

No information available.

Component Information

SODIUM CHLORIDE (7647-14-5)

Method	Species	Results
		Did not cause cancer in laboratory animals.***

PROPAN-2-OL (67-63-0)

Method	Species	Results
OECD Test No. 451: Carcinogenicity Studies***	Rat***	Did not cause cancer in laboratory animals.***

Reproductive toxicity

No information available.

SODIUM ACETATE (127-09-3)

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

PROPAN-2-OL (67-63-0)

Method	Species	Results
OECD Test No. 415: One-Generation Reproduction Toxicity Study***	Rat***	NOAEL P 853 mg/kg***
OECD Test No. 416: Two-Generation Reproduction Toxicity***	Rat***	NOAEL P 500 mg/kg NOAEL F1 1.000 mg/kg***

STOT - single exposure

No information available.

SODIUM ACETATE (127-09-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.***

SODIUM CHLORIDE (7647-14-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.***

PROPAN-2-OL (67-63-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
		Oral***			May cause drowsiness or dizziness Central nervous system***

STOT - repeated exposure

No information available.

Component Information

SODIUM ACETATE (127-09-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, a STOT-RE classification is not warranted.***

SODIUM CHLORIDE (7647-14-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Medical experience with sodium chloride has shown a strong association between elevated blood pressure and prolonged dietary

					overuse. Related effects could occur in the kidneys.***
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PROPAN-2-OL (67-63-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat***	Inhalation Vapour***		104 weeks***	In animals, effects have been reported on the following organs: Kidney Liver Kidney effects have been observed in male rats. These effects are believed to be species specific and unlikely to occur in humans. Observations in animals include: Lethargy.***

Aspiration hazard No information available.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.***

Unknown aquatic toxicity ***

SODIUM ACETATE (127-09-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test***	Brachydanio rerio***	LC50***	> 100 mg/L***	96 hours***	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test***	Daphnia magna***	EC50***	> 1000 mg/L***	48 hours***	
ISO 10253***	Skeletonema costatum***	EC50***	> 1000 mg/L***	72 hours***	
Bacteria toxicity***		EC50***	7200 mg/L***	18 hours***	

SODIUM CHLORIDE (7647-14-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test***	Lepomis macrochirus***	LC50***	5840 mg/L***	96 hours***	Harmless to aquatic organisms up to the tested concentration***
OECD Test No. 203: Fish, Acute Toxicity Test***	Pimephales promelas***	LC50***	10610 mg/L***	96 hours***	Harmless to aquatic organisms up to the tested concentration***
OECD Test No. 203: Fish, Acute Toxicity Test***	Daphnia magna***	EC50***	1900 mg/L***	48 hours***	Harmless to aquatic organisms up to the tested concentration***

OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Algae***	EC50***	2430 mg/L***	120 hours***	Harmless to aquatic organisms up to the tested concentration***
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)***	activated sludge***	IC50***	> 1000 mg/L***		Harmless to aquatic organisms up to the tested concentration***
Chronic aquatic toxicity***	Pimephales promelas***	NOEC***	252 mg/L***	33 days***	Harmless to aquatic organisms up to the tested concentration***
Chronic aquatic toxicity***	Daphnia pulex***	NOEC***	314 mg/L***	21 days***	Harmless to aquatic organisms up to the tested concentration***

PROPAN-2-OL (67-63-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test***	Pimephales promelas***	LC50***	>9640 - 10000 mg/L***	96 hours***	
OECD Test No. 211: Daphnia magna Reproduction Test***	Daphnia magna***	NOEC***	30 mg/L***	21 days***	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Scenedesmus subspicatus***	EC50***	>1000 mg/L***	96 hours***	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Scenedesmus subspicatus***	NOEC***	1000 mg/L***	96 hours***	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)***	activated sludge***	EC50***	>1000 mg/L***	3 hours***	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
SODIUM ACETATE***	-	LC50: >100mg/L (96h, Danio rerio)***	-	EC50: >1000mg/L (48h, Daphnia magna)***

12.2. Persistence and degradability

Persistence and degradability Not readily biodegradable.***

SODIUM CHLORIDE (7647-14-5)

Method	Exposure time	Value	Results
			Not applicable Inorganic.***

PROPAN-2-OL (67-63-0)

Method	Exposure time	Value	Results
OECD Test No. 301E: Ready Biodegradability: Modified OECD Screening Test (TG 301 E) or Equivalent.***	28 days***	95% Biodegradation***	Readily biodegradable***

12.3. Bioaccumulative potential

Bioaccumulation Not likely to bioaccumulate.***

Component Information ***

Chemical name	Partition coefficient
SODIUM ACETATE***	-3.72***
PROPAN-2-OL***	0.05***

12.4. Mobility in soil

Mobility in soil Soluble in water.***

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
SODIUM ACETATE***	The substance is not PBT / vPvB***
SODIUM CHLORIDE***	The substance is not PBT / vPvB***
PROPAN-2-OL ***	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 Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number UN3077***
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CATIONIC HYDROXYETHYL CELLULOSE)***
14.3 Transport hazard class(es) 9***
14.4 Packing group III***
14.5 Environmental hazards Yes***
14.6 Special precautions for user
Special Provisions A97, A158, A179, A197, A215***
ERG Code 9L***

IMDG

14.1 UN number or ID number UN3077***
UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CATIONIC HYDROXYETHYL CELLULOSE)***
14.3 Transport hazard class(es) 9***
14.4 Packing group III***
14.5 Environmental hazards Yes***
14.6 Special precautions for user
Special Provisions 274, 335, 966, 967, 969***

EmS-No F-A, S-F***
14.7 Maritime transport in bulk according to IMO instruments No information available

RID

14.1 UN number or ID number UN3077***
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CATIONIC HYDROXYETHYL CELLULOSE)***
14.3 Transport hazard class(es) 9***
14.4 Packing group III***
14.5 Environmental hazards Yes***
14.6 Special precautions for user
Special Provisions 274, 335, 375, 601***
Classification code M7***

ADR

14.1 UN number or ID number UN3077***
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CATIONIC HYDROXYETHYL CELLULOSE)***
14.3 Transport hazard class(es) 9***
14.4 Packing group III***
14.5 Environmental hazards Yes***
14.6 Special precautions for user
Special Provisions 274, 335, 601, 375***
Classification code M7***
Tunnel restriction code (-)***

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

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2***

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)

Chemical name	The Biocidal Products Regulations 2001 (as amended)
SODIUM ACETATE*** - 127-09-3	Simplified procedure - Category A***
PROPAN-2-OL*** - 67-63-0	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene***

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
KECL	- 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 information available

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**

H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness
H411 - 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 ***Indicates updated data since last publication

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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Supersedes date 22-Jun-2020***

Revision date 29-Jul-2024

**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

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End of Safety Data Sheet