

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

Supersedes date 04-Dec-2023

Revision date 14-Apr-2024

Revision Number 5

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

1.1. Product identifier

Product Code(s)	58249
Safety data sheet number	58249
Product Name	CELLOSIZ E HYDROXYETHYL CELLULOSE QP 100 MH
Synonyms	CELLOSIZ E QP 100 MH PC, CELLOSIZ E HYDROXYETHYL CELLULOSE QP 100 MH EUROPE, CELLOSIZ E QP 100 MH EUR PCG, CELLOSIZ E QP 100 MH, CELLOSIZ E QP 100 MH US
Pure substance/mixture	Mixture

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

Recommended use Thickener Binder Film Former Stabiliser Protective colloid.

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

Not classified

2.2. Label elements

Not classified

Hazard statements

Not classified

EUH210 - Safety data sheet available on request

Unknown aquatic toxicity

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

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)
HYDROXYETHYL CELLULOSE 9004-62-0	>= 86.0 - <= 100.0 %	-	-	-	-	-	-
SODIUM ACETATE 127-09-3	<= 6.5 %	204-823-8	-	-	-	-	-
PROPAN-2-OL 67-63-0	<= 3.0 %	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 16

This product does not contain candidate substances of very high concern at a concentration >= 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. If breathing is irregular or stopped, administer artificial respiration. 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.

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 Dust contact with the eyes can lead to mechanical irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Water spray. Dry chemical. Carbon dioxide (CO₂).

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. Avoid generation of dust. When suspended in air dust can pose an explosion hazard. Remove all sources of ignition. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

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 area. Keep unnecessary and unprotected personnel from entering. In case of spills, beware of slippery floors and surfaces.

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	Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Take up mechanically, placing in appropriate containers for disposal. Do not use water to clean up.
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	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Dust can form an explosive mixture with air. Keep container closed when not in use.
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. Store indoors. Keep away from open flames, hot surfaces and sources of ignition. See section 10 for more information.
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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]
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]
PROPAN-2-OL 67-63-0	26 mg/kg bw/day [4] [6]	319 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		
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	
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

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 Wear suitable gloves. Gloves must conform to standard EN 374.

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Colour	white
Odour	Mild.
Odour threshold	Not relevant

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		solid. Decomposes before melting.
Initial boiling point and boiling range		Not applicable. solid.
Flammability		Dust may form explosive mixture with air.
Flammability Limit in Air		Not applicable. solid.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		Not applicable. solid.
Autoignition temperature	≥ 400 °C	Read-across.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)	5.5 - 8.0	
Kinematic viscosity		solid.
Dynamic viscosity		No information available.
Water solubility	Miscible with water	
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure		Not applicable.
Relative density	1.3	@ 20 °C.
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		Not applicable. solid.
Particle characteristics		No information available.
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

Evaporation rate	Not applicable
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability Stable under recommended storage conditions. Hygroscopic.

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 Keep at a temperature not exceeding 200 °C. Hazardous decomposition products will be formed at elevated temperatures. Avoid static discharge. Protect from moisture.

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

Eye contact Dust contact with the eyes can lead to mechanical irritation.

Skin contact Non-irritating during normal use.

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

> 5000 mg/kg > 2000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
HYDROXYETHYL CELLULOSE	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
SODIUM ACETATE	> 3500 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 30 g/m ³ (Rat) 1 h
PROPAN-2-OL	= 5840 mg/kg (Rat)	> 12800 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Non-irritating during normal use.

HYDROXYETHYL CELLULOSE (9004-62-0)

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

SODIUM ACETATE (127-09-3)

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

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 Dust contact with the eyes can lead to mechanical irritation.

HYDROXYETHYL CELLULOSE (9004-62-0)

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

SODIUM ACETATE (127-09-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight 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 Non-sensitizing.

HYDROXYETHYL CELLULOSE (9004-62-0)

Method	Species	Exposure route	Results
	Human evidence	Dermal	Not a skin sensitizer

SODIUM ACETATE (127-09-3)

Method	Species	Exposure route	Results
	Human evidence	Dermal	Not a skin sensitizer

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 Did not show mutagenic effects in animal experiments.

Product Information		
Method	Species	Results
	in vitro	Negative
		Negative Did not show mutagenic

		effects in animal experiments
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Component Information

HYDROXYETHYL CELLULOSE (9004-62-0)

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

SODIUM ACETATE (127-09-3)

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

Similar cellulose did not cause cancer in long-term animal studies.

Component Information

HYDROXYETHYL CELLULOSE (9004-62-0)

Method	Species	Results
		Similar cellulose did not cause cancer in long-term animal studies.

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

Method	Species	Results
OECD Test No. 451: Carcinogenicity Studies	Rat	

Reproductive toxicity

In animal studies, a similar cellulose has been shown not to interfere with reproduction.

HYDROXYETHYL CELLULOSE (9004-62-0)

Method	Species	Results
		In animal studies, a similar cellulose has been shown not to interfere with reproduction.

SODIUM ACETATE (127-09-3)

Method	Species	Results
		In animal studies, a similar cellulose has been shown not to 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.

HYDROXYETHYL CELLULOSE (9004-62-0)

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

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.

STOT - repeated 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.

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

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rat	Inhalation		104 weeks	May cause drowsiness or dizziness

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 The environmental impact of this product has not been fully investigated.

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

SODIUM ACETATE (127-09-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish,	Brachydanio rerio	LC50	> 100 mg/L	96 hours	

Acute Toxicity Test					
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	

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	

12.2. Persistence and degradability**Persistence and degradability** Inherently Biodegradable.

Method	Exposure time	Value	Results
OECD Test No. 302B: Inherent Biodegradability: Zahn-Wellens/ EVPA Test or Equivalent.	61 days	Biodegradation 36%	Inherently Biodegradable

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

Method	Exposure time	Value	Results
	30 days	70-84% Biodegradation	Readily biodegradable

12.3. Bioaccumulative potential**Bioaccumulation** Not likely to bioaccumulate.**Component Information**

Chemical name	Partition coefficient
HYDROXYETHYL CELLULOSE	-7.52
SODIUM ACETATE	-3.72
PROPAN-2-OL	0.05

12.4. Mobility in soil**Mobility in soil** Miscible 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
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 Not regulated

14.2

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

14.3 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).

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)

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 algicides 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/NDSL	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/NDSL** - 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

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 4 6 11 12

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

Prepared By Lisa Bland

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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