

Granville Oil & Chemicals Ltd.

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

Revision date 09-Oct-2025 **Revision Number** 3

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

#### 1.1. Product identifier

Product Code(s) 2643, 2644

Safety data sheet number 62012

**Product Name** Zerocol SP-Oat Antifreeze

UFI: KH4K-2TR8-WH6U-URVU

Pure substance/mixture Mixture

Contains ETHANEDIOL

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

Recommended use Heat transfer medium

#### 1.3. Details of the supplier of the safety data sheet

**Supplier** 

Granville Oil & Chemicals Ltd

29 Goldthorpe Ind. Est

Goldthorpe Rotherham

South Yorkshire

S63 9BL

Veedol Ireland Ltd

77 Camden Street Lower

Saint Kevin's

Dublin

Ireland

D02 XE80

#### For further information, please contact

E-mail address lab@granvilleoil.com

+44 (0)1709 890099 Non-Emergency Telephone Number

1.4. Emergency telephone number

**Emergency Telephone** 999

# SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Acute toxicity - Oral	Category 4*** - (H302)***
Specific target organ toxicity — repeated exposure	Category 2*** - (H373)***

#### 2.2. Label elements

Contains ETHANEDIOL

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#### Signal word Warning\*\*\*

#### **Hazard statements**

H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure\*\*\*

#### **Precautionary statements**

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P314 - Get medical advice/attention if you feel unwell

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

**UFI:** KH4K-2TR8-WH6U-URVU

Unknown aquatic toxicity \*\*\*

#### 2.3. Other hazards

Causes mild skin irritation.\*\*\*

# **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)
ETHANEDIOL*** 107-21-1	90 - 100%	203-473-3 (603-027-00 -1)	-	Acute Tox. 4 (H302) STOT RE 2 (H373)	-	-	-
SODIUM METASILICATE PENTAHYDRATE*** 10213-79-3	0 - 10%	229-912-9 (014-010-00 -8)	-	Skin Corr. 1B (H314) Met. Corr. 1 (H290) STOT SE 3 (H335) Eye Dam. 1 (H318)	-	-	-

#### 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**

# Granv

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#### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.\*\*\*

Inhalation Get medical attention if symptoms occur. Remove to fresh air.

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

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.\*\*

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

**Symptoms** Prolonged contact may cause redness and irritation.\*\*\*

Prolonged contact may cause redness and irritation.\*\*\* **Dermal** 

Ingestion Harmful if swallowed Lethal dose to humans 100ml May cause damage to organs through

prolonged or repeated exposure if swallowed Kidneys

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

Note to doctors If several ounces (60 - 100 ml) of ethylene glycol have been ingested, early administration

> of ethanol may counter the toxic effects (metabolic acidosis, renal damage). Consider hemodialysis or peritoneal dialysis & thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours. If ethanol is used, a therapeutically effective blood concentration in the range of 100 - 150 mg/dl may be achieved by a rapid loading dose followed by a continuous intravenous infusion. Consult standard literature for details of treatment. 4-Methyl pyrazole (Antizol®) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol (EG), di- or triethylene glycol (DEG, TEG), ethylene glycol butyl ether (EGBE), or methanol intoxication if available. Fomepizole protocol: loading dose 15 mg/kg intravenously, follow by bolus dose of 10 mg/kg every 12 hours; after 48 hours, increase bolus dose to 15 mg/kg every 12 hours. Continue fomepizole until serum methanol, EG, DEG, TEG or EGBE are undetectable. The signs and symptoms of poisoning include anion gap metabolic acidosis, CNS depression, renal tubular injury, and possible late stagecranial nerve involvement. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. In severe poisoning, respiratory support with mechanical ventilation and positive end expiratory pressure may be required. Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity

> when considering emptying the stomach. If burn is present, treat as any thermal burn, after decontamination. Treatment of exposure should be directed at the control of symptoms and

the clinical condition of the patient.

# **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.



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#### 5.2. Special hazards arising from the substance or mixture

Carbon oxides. **Hazardous combustion products** 

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 protective equipment as required. Evacuate

personnel to safe areas.\*\*\*

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

Use personal protection recommended in Section 8. For emergency responders

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 Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

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

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation.\*\*\*

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 containers tightly closed in a dry, cool 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.



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# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Exposure Limits \*\*

Chemical name	United Kingdom
ETHANEDIOL***	TWA: 10 mg/m <sup>3</sup>
107-21-1	(particulate)
	TWA: 20 ppm
	TWA: 52 mg/m <sup>3</sup>
	STEL: 40 ppm
	STEL: 104 mg/m <sup>3</sup>
	(vapour)
	Sk*

Biological occupational exposure

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
ETHANEDIOL*** 107-21-1		106 mg/kg bw/day [4] [6]	35 mg/m³ [5] [6]
SODIUM METASILICATE PENTAHYDRATE*** 10213-79-3		1.49 mg/kg/day [4] [6]	6.22 mg/m³ [4] [6]

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

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

Chemical name	Oral	Dermal	Inhalation
ETHANEDIOL*** 107-21-1		53 mg/kg bw/day [4] [6]	7 mg/m³ [5] [6]
SODIUM METASILICATE PENTAHYDRATE*** 10213-79-3	0.74 mg/kg/day [4] [6]	0.74 mg/kg/day [4] [6]	1.55 mg/m³ [4] [6]

[4]Systemic health effects.\*\*\*[5]Local 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
ETHANEDIOL***	10 mg/L	10 mg/L	1 mg/L	10 mg/L	



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	Chemical name	Freshwater	Freshwater	Marine water	Marine water	Air
			(intermittent release)		(intermittent release)	
	107-21-1					
S	SODIUM METASILICATE PENTAHYDRATE*** 10213-79-3	7.5 mg/l	7.5 mg/l	1 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
ETHANEDIOL*** 107-21-1	37 mg/kg sediment dw	3.7 mg/kg sediment dw	199.5 mg/L	1.53 mg/kg soil dw	
SODIUM METASILICATE PENTAHYDRATE*** 10213-79-3			1000 mg/l		

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.

**Skin and body protection**Wear suitable protective clothing.\*\*\*

**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 Liquid
Appearance Clear liquid

Colour Colourless to pale yellow No information available.
Odour threshold No information available

Property Values Remarks • Method

Melting point / freezing point

Initial boiling point and boiling range

Flammability

Flammability Limit in Air

Upper flammability or explosive

limits

Lower flammability or explosive

limits

No information available.



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No information available.

Flash point No information available.

Autoignition temperature No information available.

Decomposition temperature No information available.

Decomposition temperature pH 8.65

pH (as aqueous solution)

Kinematic viscosity

Dynamic viscosity

No information available.

No information available.

No information available.

Water solubility Soluble in water

Solubility(ies)No information available.Partition coefficientNo information available.Vapour pressureNo information available.

Relative density 1.13

Bulk densityNo information availableLiquid DensityNo information availableNo information availableRelative vapour densityNo information available

Particle characteristics

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

# 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.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

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



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Product Information

Information \*\*

**Inhalation** May cause irritation.

**Eye contact** May cause temporary eye irritation.

**Skin contact** May cause slight irritation.

Ingestion Harmful if swallowed. May cause damage to organs through prolonged or repeated

exposure if swallowed. Kidneys.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.\*\*\*

**Acute toxicity** 

**Numerical measures of toxicity** 

\*\*\*

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

**ATEmix (oral)** 545.70\*\*\* mg/kg\*\*\*

Component Information

•	Component information							
Chemical name		Oral LD50	Dermal LD50	Inhalation LC50				
	ETHANEDIOL***	7712 mg/kg (Rat)	> 3500 mg/kg ( Mouse )	> 2.5 mg/L (Rat)6 h				
	SODIUM METASILICATE PENTAHYDRATE***	1152 - 1349 mg/kg (Rat)	> 5000 mg/kg ( Rat )	> 2.06 mg/l ( Rat ) 4h				

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

**Skin corrosion/irritation**No information available.

ETHANEDIOL (107-21-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact is
					essentially
					non-irritating to skin.
					Prolonged contact
					may cause slight
					skin irritation with
					local redness

Serious eye damage/eye irritation No information available.

ETHANEDIOL (107-21-1)

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

**Respiratory or skin sensitisation** No information available.

FTHANEDIOI (107-21-1)

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



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Germ cell mutagenicity	No information available.
------------------------	---------------------------

Component Information

ETHANEDIOL (107-21-1)

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

SODIUM METASILICATE PENTAHYDRATE (10213-79-3)

Method	Species	Results
	in vitro	Negative
	in vivo	Negative

**Carcinogenicity** No information available.

Component Information ETHANEDIOL (107-21-1)

ETTANEDIOE (107-21-1)		
Method	Species	Results
		Did not cause cancer in laboratory
		animals.

Reproductive toxicity No information available.\*\*\*

FTHANEDIOI (107-21-1)

Method	Species	Results
		Based on animal studies, ingestion of very large amounts of ethylene glycol appears to be the major and possibly only route of exposure to produce birth defects. Exposures by inhalation or skin contact, the primary routes of occupational exposure, had minimal effect on the fetus, in animal studies.

**STOT - single exposure** No information available.

ETHANEDIOI (107-21-1)

ETHANEDIOL (107-21-1)					
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**May cause damage to organs through prolonged or repeated exposure.

Component Information FTHANEDIOL (107-21-1)

=						
	Method	Species	Exposure route	Effective dose	Exposure time	Results



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		Observations in humans include:
		Nystagmus
		(involuntary eye
		movement). In
		animals, effects
		have been reported
		on the following
		organs: Kidney Liver

SODIUM METASILICATE PENTAHYDRATE (10213-79-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 408:	Rat	Oral	227 mg/kg	3 months	NOAEL
Repeated Dose 90-Day					
Oral Toxicity Study in					
Rodents					

**Aspiration hazard** No information available. Other adverse effects

# **SECTION 12: Ecological information**

12.1. Toxicity

Not considered to be harmful to aquatic life.\*\*\* **Ecotoxicity** 

No information available.

**Unknown aquatic toxicity** 

ETHANEDIOL (107-21-1)

ETT/AVEDIOE (107-21-1)					
Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Pimephales	LC50	72860 mg/L	96 hours	
	promelas				
OECD Test No. 202:	Daphnia magna	EC50	> 100 mg/L	48 hours	
Daphnia sp., Acute					
Immobilisation Test					ļ

SODIUM METASII ICATE PENTAHYDRATE (10213-79-3)

CODIONI METAGLICATE LENTATI DIVATE (10213-13-5)					
Method Species Endpoint type Effective dose Exposure time				Results	
	Brachydanio rerio	LC50	210 mg/L	96 hours	
	Daphnia magna	FC50	1700 ma/l	48 hours	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
ETHANEDIOL***	EC50: 6500 - 13000mg/L (96h, Pseudokirchneriella subcapitata)	<b>9</b> ( .		EC50: =46300mg/L (48h, Daphnia magna)





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#### 12.2. Persistence and degradability

Persistence and degradability No information available.

ETHANEDIOL (107-21-1)

Method	Exposure time	Value	Results
OECD Test No. 301A: Ready	10 days	Biodegradation 90 - 100 %	Readily biodegradable
Biodegradability: DOC Die-Away Test	-	_	-
(TG 301 A) or Equivalent.			

#### 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

Component Information \*\*\*

Chemical name	Partition coefficient
ETHANEDIOL***	-1.36***

#### 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
ETHANEDIOL***	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

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number
 14.2 UN proper shipping name
 14.3 Transport hazard class(es)
 Not regulated
 Not regulated
 Not regulated



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14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special precautions for user Special Provisions

14.7 Maritime transport in bulk according to IMO instruments

None No information available

RID

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special precautions for user

Special Provisions None

**ADR** 

14.1UN number or ID numberNot regulated14.2UN proper shipping nameNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

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)

\*\*\*

#### The Ozone-Depleting Substances Regulations 2015

Not applicable

#### The Biocidal Products Regulations 2001 (as amended)

\*\*\*

## 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

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**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 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** 

#### 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

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H311 - Toxic in contact with skin

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H336 - May cause drowsiness or dizziness

H370 - Causes damage to organs

H373 - May cause damage to organs through prolonged or repeated exposure\*\*\*

#### 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\*\*\* Calculation method\*\*\* Acute inhalation toxicity - gas\*\*\* Acute inhalation toxicity - vapour\*\*\* Calculation method\*\*\* Acute inhalation toxicity - dust/mist\*\*\* Calculation method\*\*\* Calculation method\*\*\* Skin corrosion/irritation\* Calculation method\*\*\* Serious eye damage/eye irritation\*\*\* Calculation method\*\*\* Respiratory sensitisation\*\*\* Skin sensitisation\*\* Calculation method\*\*\*



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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 Jitendra Panchal

Revision date 09-Oct-2025

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**