

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

Revision date 19-Mar-2025

Revision Number 1

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

1.1. Product identifier

Product Code(s) 126029
Safety data sheet number 126029
Product Name SIKATHERM 015 BLUE

Pure substance/mixture Mixture

Contains HDI OLIGOMERS, ISOCYANURATE; HEXAMETHYLENEDIISOCYANATE HOMOPOLYMER; HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER, POLYETHYLENE GLYCOL MONO-ME ETHER-BLOCKED

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

Recommended use Sealant
Adhesive

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

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)

Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	

2.2. Label elements

Contains HDI OLIGOMERS, ISOCYANURATE; HEXAMETHYLENEDIISOCYANATE HOMOPOLYMER; HEXANE, 1,6-DIISOCYANATO-, HOMOPOLYMER, POLYETHYLENE GLYCOL MONO-ME ETHER-BLOCKED

**Signal word**

Warning

Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
EUH204 - Contains isocyanates. May produce an allergic reaction

Precautionary statements

P261 - Avoid breathing mist/vapours/spray
P264 - Wash skin thoroughly after handling
P280 - Wear protective gloves and eye/face protection
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention

Additional information

As from 24 August 2023 adequate training is required before industrial or professional use.

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)
HDI OLIGOMERS, ISOCYANURATE	>=40 - <60%	500-060-2	-	Skin Sens. 1 (H317) Acute Tox. 4 (H332)	-	-	-

28182-81-2				STOT SE 3 (H335)			
HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER -	>=25 - <40%	939-549-4	-	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Acute Tox. 4 (H332) STOT SE 3 (H335)	-	-	-
PROPYLENE CARBONATE 108-32-7	>=10 - <20%	203-572-1 (607-194-00 -1)	-	Eye Irrit. 2 (H319)	-	-	-
HEXANE, 1,6-DIISOCYANAT O-, HOMOPOLYMER, POLYETHYLENE GLYCOL MONO-ME ETHER-BLOCKED 160994-68-3	>=2.5 - <5%	679-501-7	-	Skin Sens. 1B (H317) Acute Tox. 4 (H332) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	-	-	-
HEXAMETHYLENE DIISOCYANATE 822-06-0	<0.2%	212-485-8 (615-011-00 -1)	-	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Acute Tox. 2 (H330) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) STOT SE 3 (H335)	-	-	-

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	Show this safety data sheet to the doctor in attendance.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. 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. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Get medical attention if symptoms occur.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Headache. May cause redness and tearing of the eyes. Erythema (skin redness).
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media Water spray. CO₂, dry chemical, dry sand, alcohol-resistant foam.

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 Exposure to combustion products may be a hazard to health.

Hazardous combustion products During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

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. Cool containers with flooding quantities of water until well after fire is out. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. Use personal protection recommended in Section 8. No action shall be taken involving any personal risk or without suitable training. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material.

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 Do not allow runoff to sewer, waterway or ground. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for cleaning up Clean contaminated objects and areas thoroughly observing environmental regulations.

Prevention of secondary hazards Observe good chemical hygiene practices.

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 Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Avoid contact with eyes, skin and clothing. Use engineering controls to keep exposures below the OEL or DNEL.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store in accordance with local regulations. Keep container tightly closed in a dry and well-ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

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**

Chemical name	United Kingdom
HDI OLIGOMERS, ISOCYANURATE 28182-81-2	TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ Sen+
HEXAMETHYLENE DIISOCYANATE 822-06-0	TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ Sen+

Biological occupational exposure limits

Chemical name	United Kingdom
HDI OLIGOMERS, ISOCYANURATE 28182-81-2	1 µmol isocyanate-derived diamine/mol creatinine in urine (At the end of the period of exposure)
HEXAMETHYLENE DIISOCYANATE 822-06-0	1 µmol isocyanate-derived diamine/mol creatinine in urine (At the end of the period of exposure)

Information on monitoring procedures

Refer to European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) or equivalent national standard(s).

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
PROPYLENE CARBONATE 108-32-7		20 mg/kg bw/day [4] [6] 10 mg/cm ² [5] [6]	70.53 mg/m ³ [4] [6] 20 mg/m ³ [5] [6]
HEXAMETHYLENE DIISOCYANATE 822-06-0			0.035 mg/m ³ [5] [6] 0.07 mg/m ³ [5] [7]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
PROPYLENE CARBONATE 108-32-7	10 mg/kg bw/day [4] [6]	10 mg/kg bw/day [4] [6]	17.4 mg/m ³ [4] [6] 10 mg/m ³ [5] [6]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
PROPYLENE CARBONATE 108-32-7	0.9 mg/L	9 mg/L	0.09 mg/L	0.9 mg/L	
HEXAMETHYLENE DIISOCYANATE 822-06-0	49 µg/l		4.9 µg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
PROPYLENE CARBONATE 108-32-7			7400 mg/L	0.81 mg/kg soil dw	
HEXAMETHYLENE DIISOCYANATE 822-06-0	674 µg/kg sediment dw	67.4 µg/kg sediment dw	8.42 mg/L	523 µg/kg soil dw	

8.2. Exposure controls**Engineering controls**

Ensure adequate ventilation, especially in confined areas. Use engineering controls to keep exposures below the OEL or DNEL. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection Chemical resistant gloves required for prolonged or repeated contact. Gloves must conform to standard EN 374. 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			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Butyl rubber Nitrile rubber	> 0.1 mm	
Long term (repeated)	Viton™	0.4 mm	> 30 minutes

Skin and body protection Cotton protective clothing and shoes that cover the entire foot (EN 20345). Long sleeved clothing. Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

Respiratory protection In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Select an organic vapour filter, Type A, specifically for the following exposure levels: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices. Wash hands before breaks and after work.

Environmental exposure controls Avoid release to the environment. Keep out of drains, sewers, ditches and waterways. Local authorities should be advised if significant spillages cannot be contained.

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

Physical state	Liquid
Appearance	Liquid
Colour	Various colours
Odour	Slight.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No information available.
Initial boiling point and boiling range		No information available.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	~ 123 °C	Closed cup.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		Not applicable. Insoluble in water.
pH (as aqueous solution)		No information available.
Kinematic viscosity	> 20.5 mm ² /s	@ 40 °C.
Dynamic viscosity	~ 400 mPa s	@ 20 °C.
Water solubility	Insoluble	No information available.
Solubility(ies)		No information available.
Partition coefficient		No information available.

Vapour pressure	0.01 hPa	No information available.
Relative density		No information available.
Bulk density		No information available.
Liquid Density	~ 1.2 g/cm3	@ 20 °C
Relative vapour density		No information available.
Particle characteristics		Not applicable.
Particle Size	.	
Particle Size Distribution	.	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No reactive hazards known/expected.

10.2. Chemical stability

Stability Stable under recommended storage 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 No information available.

10.5. Incompatible materials

Incompatible materials No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Harmful if inhaled. May cause respiratory irritation.
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/or wheezing. Headache. May cause redness and tearing of the eyes. Erythema (skin redness).

Acute toxicity**Numerical measures of toxicity**

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

ATEmix (dermal) 2,604.00 mg/kg

ATEmix (inhalation-dust/mist) 2.93 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
HDI OLIGOMERS, ISOCYANURATE	-	> 2000 mg/kg (Rat)	= 18500 mg/m ³ (Rat) 1 h
PROPYLENE CARBONATE	= 33520 mg/kg (Rat)	> 20000 mg/kg (Rabbit)	-
HEXAMETHYLENE DIISOCYANATE	= 738 mg/kg (Rat)	> 7000 mg/kg (Rat)	= 0.06 mg/L (Rat) 4 h

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

PROPYLENE CARBONATE (108-32-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 405	Rabbit	eye			Irritant

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Based on available data the classification criteria are not met.

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity Based on available data the classification criteria are not met.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure Based on available data the classification criteria are not met.

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**

Based on available data, the classification criteria are not met.

HDI OLIGOMERS, ISOCYANURATE (28182-81-2)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Daphnia magna	EC50	> 100 mg/L	48 hours	

PROPYLENE CARBONATE (108-32-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Algae	EC50	> 900 mg/L	72 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 1000 mg/L	48 hours	
	Bacteria toxicity	EC10	25619 mg/L	16 hours	
	Fish	LC50	> 1000 mg/L	96 hours	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
HEXAMETHYLENE DIISOCYANATE	-	LC50: =26.1mg/L (96h, Brachydanio rerio)	-	-

12.2. Persistence and degradability**Persistence and degradability**

There is no data for this product.

PROPYLENE CARBONATE (108-32-7)

Method	Exposure time	Value	Results
OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A)	14 days	>70%	Readily biodegradable

12.3. Bioaccumulative potential**Bioaccumulation**

There is no data for this product.

Component Information

Chemical name	Partition coefficient
PROPYLENE CARBONATE	0.48

12.4. Mobility in soil**Mobility in soil**

There is no data for this product.

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
HDI OLIGOMERS, ISOCYANURATE	The substance is not PBT / vPvB
PROPYLENE CARBONATE	The substance is not PBT / vPvB
HEXAMETHYLENE DIISOCYANATE	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	Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.
Contaminated packaging	Do not reuse empty containers. Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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	Not applicable
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	Not applicable
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	Not applicable
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	Not 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).

Product restricted per REACH Annex XVII: 3

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
PROPYLENE CARBONATE - 108-32-7	75	-
HEXAMETHYLENE DIISOCYANATE - 822-06-0	75	-

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
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 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
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

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 **Not applicable**

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 J Forth

Revision date 19-Mar-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