

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

Revision date 10-Nov-2023

Revision Number 1

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

1.1. Product identifier

Product Code(s)	66278
Safety data sheet number	66278
Product Name	5313 PREFORMED SEALANT
Synonyms	5313 STRIP 2MM X 50MM X 25M, 5313 STRIP 6MM DIA X 5M, 5313 STRIP 3MM X 12MM X 10M
Pure substance/mixture	Mixture

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

Recommended use	Industrial use Sealant
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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)
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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)
POLYISOBUTYLENE E 9044-17-1	15 - 40%	-	-	Not classified	-	-	-
KAOLIN 1332-58-7	10 - 30%	310-194-1	-	Not classified	-	-	-
CARBON BLACK 1333-86-4	10 - 30%	215-609-9	-	Not classified	-	-	-
POLY (ISOPRENE - CO - ISOBUTENE) 9010-85-9	7 - 20%	-	-	Not classified	-	-	-
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL 8050-31-5	1 - 5%	232-482-5	-	Not classified	-	-	-
HYDRATED MAGNESIUM SILICATE 14807-96-6	1 - 5%	238-877-9	-	Not classified	-	-	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC 64741-88-4	1 - 5%	265-090-8 (649-454-00-7)	-	Asp. Tox. 1 (H304)	-	-	-
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]	0-0.5%	236-675-5 (022-006-00-2)	-	Carc. 2 (H351i)	-	-	-

13463-67-7							
QUARTZ 14808-60-7	0-1%	238-878-4	-	STOT RE 1 (H372)	-	-	-

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Eye contact	Rinse eyes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention.

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

Symptoms	No information available.
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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	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
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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

Hazardous combustion products	Carbon oxides. May emit toxic fumes under fire conditions.
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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 Wear suitable protective clothing. Avoid contact with eyes, skin and clothing. 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.

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

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 Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation.

General hygiene considerations Do not eat, drink or smoke when using the product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions No information available.

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
KAOLIN 1332-58-7	TWA: 2 mg/m ³ STEL: 6 mg/m ³

CARBON BLACK 1333-86-4	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
HYDRATED MAGNESIUM SILICATE 14807-96-6	TWA: 1 mg/m ³ STEL: 3 mg/m ³
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 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.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
CARBON BLACK 1333-86-4			1 mg/m ³ [4] [6] 0.5 mg/m ³ [5] [6]
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL 8050-31-5		5 mg/kg bw/day [4] [6]	10 mg/m ³ [5] [6]
HYDRATED MAGNESIUM SILICATE 14807-96-6		43.2 mg/kg bw/day [4] [6] 4.54 mg/cm ² [5] [6]	2.16 mg/m ³ [4] [6] 2.16 mg/m ³ [4] [7] 3.6 mg/m ³ [5] [6] 3.6 mg/m ³ [5] [7]
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC 64741-88-4		0.97 mg/kg bw/day [4] [6]	2.73 mg/m ³ [4] [6] 5.58 mg/m ³ [5] [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
CARBON BLACK 1333-86-4			0.06 mg/m ³ [4] [6]
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL 8050-31-5	2.5 mg/kg bw/day [4] [6]		
HYDRATED MAGNESIUM SILICATE 14807-96-6	160 mg/kg bw/day [4] [6] 160 mg/kg bw/day [4] [7]	2.27 mg/cm ² [5] [6]	1.08 mg/m ³ [4] [6] 1.08 mg/m ³ [4] [7] 1.8 mg/m ³ [5] [6] 1.8 mg/m ³ [5] [7]
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC 64741-88-4	0.74 mg/kg bw/day [4] [6]		1.19 mg/m ³ [5] [6]
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7			0.028 mg/m ³ [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
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL 8050-31-5	0.1 mg/L	1 mg/L	0.01 mg/L		
HYDRATED MAGNESIUM SILICATE 14807-96-6	597.97 mg/L	597.97 mg/L	141.26 mg/L	141.26 mg/L	10 mg/m ³
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7	0.184 mg/l		0.0184 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL 8050-31-5	2317.75 mg/kg sediment dw	231.78 mg/kg sediment dw	2.525 mg/L	462.06 mg/kg soil dw	
HYDRATED MAGNESIUM SILICATE 14807-96-6	31.33 mg/kg sediment dw	3.13 mg/kg sediment dw			
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC 64741-88-4					9.33 mg/kg food
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] 13463-67-7	1000 mg/kg	100 mg/kg		100 mg/kg	100 mg/l

8.2. Exposure controls**Engineering controls**

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas.

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. 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 appropriate clothing to prevent reasonably probable skin contact.
Respiratory protection	None under normal use conditions.
General hygiene considerations	Do not eat, drink or smoke when using the product. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Paste
Colour	black
Odour	Odourless.
Odour threshold	No information available

Property	Values	Remarks • Method
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	>=93.3 °C	CC (closed cup).
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity		No information available.
Water solubility	Insoluble in water	No information available.
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure		No information available.
Relative density	1.25 - 1.35	No information available.
Bulk density		No information available.
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	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.

Hazardous polymerisation Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. May emit toxic fumes under fire conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

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

ATEmix (oral) 45,454.50 mg/kg

ATEmix (dermal) 50,000.00 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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KAOLIN	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
CARBON BLACK	> 8000 mg/kg (Rat)	-	-
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL	> 2000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5530 mg/m ³ (Rat) 4 h
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	> 6.82 mg/L (Rat) 4 h

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

CARBON BLACK (1333-86-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			non-irritant edema Erythema (skin redness) Product score 0

Serious eye damage/eye irritation No information available.

CARBON BLACK (1333-86-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			non-irritant Corneal iritis conjunctivitis Product score 0

Respiratory or skin sensitisation No information available.

CARBON BLACK (1333-86-4)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity No information available.**Carcinogenicity** No information available.

Component Information

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Species	Results
		Suspected of causing cancer if inhaled

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$]	Carc. 2

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

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.

CARBON BLACK (1333-86-4)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Fish Brachydanio rerio	LC50	> 1000 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 5600 mg/L	24 hours	
	Scenedesmus subspicatus	EC50	> 10000 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Algae Scenedesmus subspicatus	NOEC	≥ 10000 mg/L		
DEV L3 TTC	activated sludge	EC0	≥ 800 mg/L	3 hours	

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER $\leq 10 \mu\text{m}$] (13463-67-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Leuciscus idus	NOEC	> 1000 mg/L	48 hours	
	Daphnia magna	EC50	> 1000 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	EC50	> 100 mg/L	72 hours	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)		EC50	> 1000 mg/L	3 hours	

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL	EC50: >1000mg/L (72h, Pseudokirchneriella subcapitata)	LC50: >400mg/L (96h, Brachydanio rerio)	-	EC50: =259mg/L (48h, Daphnia magna)
HYDRATED MAGNESIUM SILICATE	-	LC50: >100g/L (96h, Brachydanio rerio)	-	-
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm] (13463-67-7)

Method	Exposure time	Value	Results
			Not applicable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Chemical name	Partition coefficient
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL	3.97

12.4. Mobility in soil

Mobility in soil No information available.

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
CARBON BLACK	The substance is not PBT / vPvB
RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL	The substance is not PBT / vPvB
HYDRATED MAGNESIUM SILICATE	The substance is not PBT / vPvB
DISTILLATES (PETROLEUM), SOLVENT-REFINED HEAVY PARAFFINIC	The substance is not PBT / vPvB
TITANIUM DIOXIDE; [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER ≤ 10 µm]	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 to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

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

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

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

Not applicable

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

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	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 Not applicable

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**

H304 - May be fatal if swallowed and enters airways

H351i - Suspected of causing cancer if inhaled

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)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGLS)
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)
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 K Winter

Revision date 10-Nov-2023

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