

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

Supersedes date 11-Oct-2021***

Revision date 15-Sep-2023

Revision Number 2

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

1.1. Product identifier

Product Code(s) 60352***

Safety data sheet number 60352***

Product Name HYDROXYSHIELD POLYMER

Pure substance/mixture Mixture***

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

Recommended use Personal care***

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

Skin corrosion/irritation	Category 2*** - (H315)***
Serious eye damage/eye irritation	Category 2*** - (H319)***
Chronic aquatic toxicity	Category 3*** - (H412)***

2.2. Label elements

**Signal word**

Warning***

Hazard statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects***

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P234 - Keep only in original packaging

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

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P403 - Store in a well-ventilated place***

Unknown aquatic toxicity

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

2.3. Other hazards

Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Alcohols. Acidic. Bases. Oxidising Agent.***

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable***

3.2 Mixtures***

The product contains no substances which at their given concentration, are considered to be hazardous to health***

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)
SILOXANES AND SILICONES, DI-ME, VINYL GROUP TERMINATED, POLYMERS WITH 1,1,3,3-TETRAMETHYLDISILOXANE, 3-[3-BIS-(2-HYDROXYPROPYL)AMINO]-2-HYDROXYPROPOXYPROPYL GROUP	>= 85.0 - <= 95.0 %	-	-	-	-	-	-

TERMINATED*** 2359671-63-7							
2-BUTYLOCTAN-1-OL*** 3913-02-8	>= 5.0 - <= 15.0 %	223-470-0***	-	-	-	-	-
OCTAMETHYLCYCLOTRASILOXAN E*** 556-67-2	<= 0.068 %	209-136-7 (014-018-00-1)***	-	Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Repr. 2 (H361f)***	-	-	10***

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. Rinse mouth thoroughly with water. 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. Get medical attention if symptoms occur.***

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

Eyes	Causes serious eye irritation.***
Dermal	Causes skin irritation.***

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	Alcohol resistant foam. Carbon dioxide (CO2). 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. Dry chemical.***

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. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air.***

Hazardous combustion products Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). Formaldehyde.***

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.***

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 Prevent further leakage or spillage if safe to do so.***

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 Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Acidic. Bases. Alcohols. Oxidising Agent.***

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 Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Protect from moisture. Water. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Empty containers retain product residue and can be hazardous.***

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. This product slowly evolves hydrogen on storage. Closed containers can burst violently when heated, due to excess pressure build-up. Avoid contact with: Strong acids. Strong bases. Strong oxidising agents.***

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**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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
2-BUTYLOCTAN-1-OL*** 3913-02-8		35 mg/kg bw/day [4] [6]***	247 mg/m ³ [4] [6]***
OCTAMETHYLCYCLOTETRASILOXANE*** 556-67-2			73 mg/m ³ [4] [6] 73 mg/m ³ [5] [6]***

[4] Systemic health effects.***

[5] Local health effects.***

[6] Long term.***

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

Chemical name	Oral	Dermal	Inhalation
2-BUTYLOCTAN-1-OL*** 3913-02-8	21 mg/kg bw/day [4] [6]***	21 mg/kg bw/day [4] [6]***	73 mg/m ³ [4] [6]***
OCTAMETHYLCYCLOTETRASILOXANE*** 556-67-2	3.7 mg/kg bw/day [4] [6]***		13 mg/m ³ [4] [6] 13 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
2-BUTYLOCTAN-1-OL*** 3913-02-8	0.00014 mg/l***	0.014 mg/l***	0.000014 mg/l***		
OCTAMETHYLCYCLOTE TRASILOXANE***	0.0015 mg/l***		0.00015 mg/l***		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
556-67-2					

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2-BUTYLOCTAN-1-OL*** 3913-02-8			10 mg/l***		
OCTAMETHYLCYCLOTE TRASILOXANE*** 556-67-2	3 mg/kg sediment dw***	0.3 mg/kg sediment dw***	10 mg/L***	0.54 mg/kg soil dw***	41 mg/kg food***

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

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

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.***

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves***	> 0.35 mm***	> 120 minutes***
	Rubber (natural, latex)***	> 0.35 mm***	> 120 minutes***
	Wear protective Neoprene™ gloves***	> 0.35 mm***	> 120 minutes***
	Wear protective nitrile rubber gloves***	> 0.35 mm***	> 120 minutes***
	Polyethylene (PE)***	> 0.35 mm***	> 120 minutes***
	Polyvinyl chloride (PVC)***	> 0.35 mm***	> 120 minutes***
	Chlorinated polyethylene (CPE)***	> 0.35 mm***	> 120 minutes***
	Polyvinyl alcohol (PVA)***	> 0.35 mm***	> 120 minutes***
	Wear protective Viton™ gloves***	> 0.35 mm***	> 120 minutes***

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 Liquid***
Appearance Liquid***

Colour	Colourless To yellow***
Odour	Slight.***
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not determined***
Initial boiling point and boiling range		Not determined***
Flammability		No information available
Flammability Limit in Air		Not determined***
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	122.8*** °C***	Cleveland Open Cup***
Autoignition temperature		Not determined***
Decomposition temperature		Not determined***
pH		Not applicable Insoluble in water***
pH (as aqueous solution)		No information available
Kinematic viscosity	> 20.5*** mm ² /s***	@ 40 °C***
4000 mm ² /s***		@ 25 °C***
Dynamic viscosity	4000*** mPa s***	@ 22 °C***
Water solubility	Insoluble in water***	***
Solubility(ies)		No information available
Partition coefficient		Not determined***
Vapour pressure		Not determined***
Relative density	0.953***	***
Bulk density		
Not determined***		
Not applicable***		
		Relative vapour density
		Particle characteristics
		Particle Size
		Particle Size
		Distribution
Explosive properties	Not considered to be explosive***	
Oxidising properties	Does not meet the criteria for classification as oxidising***	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No known effects under normal use conditions.***
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	The following materials may react with the product:. Strong oxidising agents. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with:. Water. Alcohols. Acidic. Bases. Strong oxidising agents. Hazardous decomposition products will be formed at elevated temperatures.***
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10.4. Conditions to avoid

Conditions to avoid Protect from moisture.***

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Strong acids. Strong bases. Strong oxidising agents.***

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). Formaldehyde.***

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information	***
Inhalation	Inhalation of vapours in high concentration may cause irritation of respiratory system.***
Eye contact	Causes serious eye irritation.***
Skin contact	Causes skin irritation.***
Ingestion	Gastrointestinal discomfort.***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral) > 5000*** mg/kg***
ATEmix (dermal) > 2000*** mg/kg***

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-BUTYLOCTAN-1-OL ***	= 13 g/kg (Rat) ***	-	-
OCTAMETHYLCYCLOTETRASILOXANE***	> 4800 mg/kg (Rat) ***	> 2400 mg/kg (Rabbit)***	= 36 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.***

Respiratory or skin sensitisation No information available.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Exposure route	Results
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	Guinea pig***	Dermal***	Not a skin sensitiser***
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Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

Chemical name	United Kingdom
OCTAMETHYLCYCLOTETRASIOXANE***	Repr. 2***

STOT - single exposure No information available.

STOT - repeated exposure No information available.

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 Harmful to aquatic life with long lasting effects.***

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

SILOXANES AND SILICONES, DI-ME, VINYL GROUP TERMINATED, POLYMERS WITH 1,1,3,3-TETRAMETHYLDISILOXANE, 3-[3-BIS-(2-HYDROXYPROPYL)AMINO]-2-HYDROXYPROPOXYPROPYL GROUP TERMINATED (2359671-63-7)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
		EC50***	> 10 - < 100 mg/L***	48 hours***	

2-BUTYLOCTAN-1-OL (3913-02-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test***	Oncorhynchus mykiss (rainbow trout)***	LC50***	0.48 mg/L***	96 hours***	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test***	Daphnia magna***	EC50***	0.14 mg/L***	48 hours***	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Pseudokirchneriella subcapitata***	ErC50***	2.1 mg/L***	72 hours***	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test***	Pseudokirchneriella subcapitata***	NOEC***	0.38 mg/L***	72 hours***	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test	activated sludge***	EC0***	>= 1 000 mg/L***	3 hours***	

(Carbon and Ammonium Oxidation)***					
Chronic aquatic toxicity***	Daphnia magna***	NOEC***	14 µg/l***	21 days***	

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)***	LC50***	> 0.022 mg/L***	96 hours***	
	Cyprinodon variegatus***	LC50***	> 0.0063 mg/L***	14 days***	
	Mysidopsis bahia***	EC50***	> 0.0091 mg/L***	96 hours***	
	Daphnia magna***	EC50***	> 0.015 mg/L***	48 hours***	
	Pseudokirchneriella subcapitata***	ErC50***	> 0.022 mg/L***	96 hours***	
	Pseudokirchneriella subcapitata***	EC10***	>= 0.022 mg/L***	96 hours***	
Chronic aquatic toxicity***	Oncorhynchus mykiss (rainbow trout)***	NOEC***	>= 0.0044 mg/L***	93 days***	
Chronic aquatic toxicity***	Daphnia magna***	NOEC***	0.0079 mg/L***	21 days***	

12.2. Persistence and degradability

Persistence and degradability No information available.

SILOXANES AND SILICONES, DI-ME, VINYL GROUP TERMINATED, POLYMERS WITH 1,1,3,3-TETRAMETHYLDISILOXANE, 3-[3-BIS-(2-HYDROXYPROPYL)AMINO]-2-HYDROXYPROPOXYPROPYL GROUP TERMINATED (2359671-63-7)

Method	Exposure time	Value	Results
			Not readily biodegradable***

2-BUTYLOCTAN-1-OL (3913-02-8)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)***	28 days***	Biodegradation 84 %***	Readily biodegradable***

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Exposure time	Value	Results
OECD 310***	28 days***	Biodegradation 3.7%***	Expected to biodegrade very slowly***

12.3. Bioaccumulative potential

Bioaccumulation No information available.***

Chemical name	Partition coefficient
2-BUTYLOCTAN-1-OL***	5.5***
OCTAMETHYLCYCLOTETRASILOXANE***	6.49***

12.4. Mobility in soil

Mobility in soil Insoluble.***

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
2-BUTYLOCTAN-1-OL ***	The substance is not PBT / vPvB***
OCTAMETHYLCYCLOTETRASIOXANE***	PBT substance vPvB substance***

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 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

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).

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

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
OCTAMETHYLCYCLOTETRASILOXANE*** - 556-67-2	Use restricted. See item 70.***	-

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

No information available

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****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 ***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) (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)

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***
Supersedes date 11-Oct-2021***
Revision date 15-Sep-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