

# SAFETY DATA SHEET

#### Classified as hazardous in accordance with the criteria of EPA New Zealand

### **Section 1 - Identification**

Product Identifier

Product Name Antimony(III) oxide

CAS No 1309-64-4

Synonyms Antimony trioxide

Molecular FormulaO3 Sb2Molecular Weight291.42

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code S55625

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Telephone / Fax Numbers Tel: 09 980 6700

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# **Section 2 - Hazard(s) Identification**

Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

HSNO Approval Number HSR002901

**GHS Classification** 

Physical hazards

Based on available data, the classification criteria are not met

**Health hazards** 

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2
Carcinogenicity Category 2

**Environmental hazards** 

Based on available data, the classification criteria are not met

Label Elements

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Signal Word Warning

#### **Hazard Statements**

H351 - Suspected of causing cancer

H315 - Causes skin irritation

H319 - Causes serious eye irritation

#### **Precautionary Statements**

#### Prevention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection

#### Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention

#### Storage

P403 - Store in a well-ventilated place

#### **Disposal**

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

Other hazards which do not result in classification

# **Section 3 - Composition and Information on Ingredients**

Component	CAS No	Weight %
Antimony trioxide	1309-64-4	>95
Lead monoxide	1317-36-8	<0.1
Arsenic trioxide	1327-53-3	<0.1

### **Section 4 - First Aid Measures**

#### Description of first aid measures

**General Advice** If symptoms persist, call a physician.

New Zealand Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

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Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically.

### **Section 5 - Fire Fighting Measures**

#### **Suitable Extinguishing Media**

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

#### Extinguishing media which must not be used for safety reasons

No information available.

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Antimony oxide.

#### Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **Section 6 - Accidental Release Measures**

#### Personal Precautions, Protective Equipment and Emergency Procedures

#### **Emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

#### **Environmental Precautions**

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

#### Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations

#### **Reference to Other Sections**

Refer to protective measures listed in Sections 8 and 13.

# **Section 7 - Handling and Storage**

#### Precautions for Safe Handling

#### Advice on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before

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re-use. Wash hands before breaks and after work.

#### Conditions for Safe Storage, Including any Incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### Incompatible Materials

Strong acids. Strong bases. Reducing Agent. Strong oxidizing agents.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

### <u>Section 8 - Exposure Controls and Personal Protection</u>

#### Control parameters

#### **Exposure limits**

**NZ** - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor **UK** - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

**AUS** - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

**ACGIH** - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

L	Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
	Antimony trioxide	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.02 mg/m <sup>3</sup> TWA: 0.5	STEL: 1.5 mg/m <sup>3</sup> 15 min
		_	_	mg/m³	TWA: 0.5 mg/m <sup>3</sup> 8 hr
	Lead monoxide		TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>	STEL: 0.45 mg/m <sup>3</sup> 15 min
			_	_	TWA: 0.15 mg/m <sup>3</sup> 8 hr
	Arsenic trioxide		TWA: 0.05 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> 15 min
			_	_	TWA: 0.1 mg/m <sup>3</sup> 8 hr
					Carc. except Arsine

#### **Biological limit values**

**ACGIH** - American Conference of Governmental Industrial Hygienists (ACGIH) TLVs® and BEIs®- Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. 2022 Edition

Component	New Zealand	Australia	ACGIH - Biological Exposure Indices	United Kingdom
Lead monoxide			200 µg/L Medium: blood Time: not critical Determinant: Lead	
Arsenic trioxide			35 μg As/L Medium: urine Time: end of workweek Determinant: Inorganic arsenic plus methylated metabolites	

#### Appropriate engineering controls

#### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use only under a chemical fume hood. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Individual protection measures, such as personal protective equipment

**Eye Protection**Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications)

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		, c g.c. c c			
Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments	
Neoprene.	See manufacturers	-	AS/NZS 2161	(minimum requirement)	
	recommendations				

Inspect gloves before use.

**Hand Protection** 

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

(Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Wear appropriate protective gloves and clothing to prevent skin exposure Skin and body protection

**Repiratory Protection** Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

> other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Particulates filter conforming to EN 143 (or AUS/NZ equivalent) **Recommended Filter type:** 

Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 (or AUS/NZ equivalent) Recommended half mask:-

When RPE is used a face piece Fit Test should be conducted

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

Prevent product from entering drains. Do not allow material to contaminate ground water **Environmental exposure controls** 

system. Local authorities should be advised if significant spillages cannot be contained.

@ 760 mmHa

### **Section 9 - Physical and Chemical Properties**

Protective aloves

#### Information on basic physical and chemical properties

**Physical State** Powder Solid

**Appearance** White Odor Odorless

**Odor Threshold** No data available рΗ No information available **Melting Point/Range** 656 °C / 1212.8 °F **Softening Point** No data available Boiling Point/Range 1550 °C / 2822 °F

Solid Flammability (liquid) Not applicable

Flammability (solid,gas) No information available

**Explosion Limits** No data available

Flash Point No information available Method - No information available

**Autoignition Temperature** No data available No data available **Decomposition Temperature** 

Solid **Viscosity** Not applicable

Water Solubility Insoluble in water No information available Solubility in other solvents

Partition Coefficient (n-octanol/water)

log Pow Component Arsenic trioxide 18.1

**Vapor Pressure** 1.3 hPa @ 574 °C **Density / Specific Gravity** No data available **Bulk Density** No data available

**Vapor Density** Not applicable Solid

Particle characteristics No data available

Other information

ALFAAS55625 Version 2 22-Mar-2023 Page 5/11 Molecular Formula O3 Sb2 Molecular Weight 291.42

Evaporation Rate Not applicable - Solid

## **Section 10 - Stability and Reactivity**

Reactivity None known, based on information available

**Stability** Stable under normal conditions.

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Hazardous Polymerization Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

Conditions to Avoid Avoid dust formation, Incompatible products, Excess heat.

**Incompatible Materials** Strong acids, Strong bases, Reducing Agent, Strong oxidizing agents.

Hazardous Decomposition Products Antimony oxide.

### **Section 11 - Toxicological Information**

#### **Acute Effects**

#### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Harmful by inhalation. Avoid breathing dust or spray mist.

Eyes Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including

blindness.

**Skin** Avoid contact with skin. Causes burns.

**Ingestion** May be harmful if swallowed.

#### Numerical measures of toxicity

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Antimony trioxide	LD50 > 34600 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	LC50 > 5.2 mg/L (Rat) 4 h
Lead monoxide	LD50 > 10000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	LC50 > 5.05 mg/L (Rat) 4 h
Arsenic trioxide	LD50 = 20 mg/kg (Rat)		

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

**Respiratory** No data available

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Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; Category 2

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

Component	New Zealand	Australia	New South	Western	IARC	EU	UK	Germany
			Wales	Australia				
Antimony trioxide	Suspected carcinogen				Group 2B			
Lead monoxide					Group 2A			
Arsenic trioxide					Group 1	Carc Cat. 1A		Cat. 1

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs None known.

(j) aspiration hazard; Not applicable

Solid

Symptoms / effects, both acute and delayed

No information available.

## **Section 12 - Ecological Information**

#### **Ecotoxicity**

Aquatic ecotoxicity Contains a substance which is:. Very toxic to aquatic organisms. The product contains

following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water

system.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Antimony trioxide	LC50 >1000 mg/L/96h (Brachydanio rerio)	EC50: 361.5 - 496.0 mg/L, 48h Static (Daphnia magna) EC50: > 1000 mg/L, 48h (Daphnia magna)	EC50: 0.65 - 0.81 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: 0.63 - 0.8 mg/L, 72h (Pseudokirchneriella subcapitata)	EC50 > 3.5 mg/L 7 h
Lead monoxide	Pimephales promelas: LC50=0.3 mg/L 96h	EC50=0.13 mg/L 48h		
Arsenic trioxide	96h flow-through	EC50 = 0.038 mg/L 24h EC50 = 0.96 mg/L 96h EC50 = 0.038 mg/L 24h		EC50 = 31.43 mg/L 60 min EC50 = 33.39 mg/L 30 min EC50 = 43.56 mg/L 15 min EC50 = 73.73 mg/L 5 min

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Terrestrial ecotoxicity There is no data for this product

Persistence and Degradability Product contains heavy metals. Discharge into the environment must be avoided. Special

pre-treatment is necessary

Persistence based on information available, May persist, Insoluble in water.

Degradation in sewage treatment

plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

Bioaccumulative Potential May have some potential to bioaccumulate Product has a high potential to bioconcentrate

Component	log Pow	Bioconcentration factor (BCF)
Arsenic trioxide	18.1	80 - 236 dimensionless

**Mobility** The product is water soluble, and may spread in water systems. Spillage unlikely to

penetrate soil. Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility. Highly mobile in soils

Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

### **Section 13 - Disposal Considerations**

#### Waste treatment methods

Waste from Residues/Unused

**Products** 

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

**Contaminated Packaging** 

Dispose of this container to hazardous or special waste collection point.

Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations . Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

### **Section 14 - Transport Information**

Component	Hazchem Code
Arsenic trioxide	2X
1327-53-3 ( <0.1 )	

NZS 5433:2020 Not regulated

IATA Not regulated

IMDG/IMO Not regulated

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**Special Precautions** 

**Environmental hazards** No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the Not applicable, packaged goods

**IBC Code** 

No special precautions required. Please refer to the applicable dangerous goods

regulations for additional information.

**Additional information** None known

### **Section 15 - Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number	HSR002901

#### **National Regulations**

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

#### Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information. Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information.

#### Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

	Component	New Zealand
ı	Antimony trioxide	Suspected carcinogen

#### **International Regulations**

**Ozone Depletion Potential** This product does not contain any known or suspected substance

**Persistent Organic Pollutant** This product does not contain any known or suspected substance

**Rotterdam Convention (PIC)** Not applicable

Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	IMDG Marine Pollutant
Arsenic trioxide		0.1 tonne	

#### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - REACH (1907/2006) - Annex XIV - Substances Subject to Restrictions on Certain Dange		REACH Regulation (EC 1907/2006) article 59 - Candidate		
	Authorization	Substances	List of Substances of Very High Concern (SVHC)		
Antimony trioxide	-	Use restricted. See item 75.	-		
		(see link for restriction details)			
Lead monoxide	-	Use restricted. See item 30. (see link for restriction details) Use restricted. See item 63. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - Toxic for reproduction (Article 57 c)		
Arsenic trioxide	Carcinogenic Category 1A, Article 57	Use restricted. See item 72.	SVHC Candidate list - 215-481-4 -		

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Application date: November 21, 2013	(see link for restriction details)	Carcinogenic, Article 57a
Sunset date: May 21, 2015	Use restricted. See item 28.	
Exemption - None	(see link for restriction details)	
·	Use restricted. See item 75.	
	(see link for restriction details) Use	
	restricted. See item 19.	
	(see link for restriction details)	

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list

https://echa.europa.eu/substances-restricted-under-reach

https://echa.europa.eu/candidate-list-table

#### **International Inventories**

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ISHL), Canada (DSL/NDSL), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	NZIoC	AICS	EINECS	ELINCS	NLP	KECL	IECSC	TCSI
Antimony trioxide	1309-64-4	X	X	215-175-0	-	-	KE-09846	Χ	X
Lead monoxide	1317-36-8	X	Х	215-267-0	-	-	KE-21926	Х	Х
Arsenic trioxide	1327-53-3	X	Х	215-481-4	-	-	KE-09858	Х	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Antimony trioxide	1309-64-4	Х	ACTIVE	X	-	X	Х	X
Lead monoxide	1317-36-8	Х	ACTIVE	X	-	X	X	X
Arsenic trioxide	1327-53-3	Х	ACTIVE	X	-	Х	Х	Х

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### **Section 16 - Other Information**

# This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations

#### Legend

NZIoC - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**IECSC** - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

NZS 5433:2020 - Transport of Dangerous Goods on Land

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

 $\mathbf{MARPOL}$  - International Convention for the Prevention of Pollution from Ships

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

WEL - Workplace Exposure Limit

**DNEL** - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

**AICS** - Australian Inventory of Chemical Substances

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

**ACGIH** - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

**OECD** - Organisation for Economic Co-operation and Development

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

LC50 - Lethal Concentration 50%

ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

**BCF** - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

#### Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID).

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https://echa.europa.eu/information-on-chemicals Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS EPA Guide to classifying hazardous substances in New Zealand EPA - Assigning a product to an existing HSNO approval guide

#### **Training Advice**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Revision Date 22-Mar-2023

Revision Summary SDS sections updated

#### 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**

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