

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

### Section 1 - Identification

Product Identifier

Product Name	Nickel(II) chloride hexahydrate
CAS No	7791-20-0
Synonyms	Nickel dichloride.; Nickelous chloride
Molecular Formula Molecular Weight	Cl2 Ni . 6 H2 O 237.71
Recommended Use Uses advised against	Laboratory chemicals. No Information available
Product Code	A14366
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 Fax: 09 980 6788
E-mail address	ANZinfo@thermofisher.com

### 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 HSR002508

**GHS Classification** 

#### Physical hazards

Based on available data, the classification criteria are not met

#### Health hazards

Acute Oral Toxicity	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Skin Corrosion/Irritation	Category 2
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1A
Reproductive Toxicity	Category 1B
Specific target organ toxicity - (repeated exposure)	Category 1

### Environmental hazards

Acute aquatic toxicity Chronic aquatic toxicity Category 1 Category 1

### Label Elements



Signal Word

Danger

### Hazard Statements

- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H341 Suspected of causing genetic defects if inhaled
- H360 May damage fertility or the unborn child
- H350 May cause cancer
- H372 Causes damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects
- H301 + H331 Toxic if swallowed or if inhaled

### **Precautionary Statements**

### Prevention

- P272 Contaminated work clothing should not be allowed out of the workplace
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P284 In case of inadequate ventilation wear respiratory protection
- P273 Avoid release to the environment

### Response

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P311 Call a POISON CENTER or doctor
- P330 Rinse mouth
- P362 + P364 Take off contaminated clothing and wash it before reuse
- P391 Collect spillage

### Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

### Disposal

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

### Other hazards which do not result in classification

Toxic to terrestrial vertebrates

### Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Nickel(II) chloride hexahydrate (1:2:6)	7791-20-0	>95
Nickel(II) chloride	7718-54-9	-

## Section 4 - First Aid Measures

<b>Description</b>	of	first	aid	measures	

New Zealand Emergency Tel.	CHEMTREC® 09 980 6780 or +64 9 980 6780
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.
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 soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
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	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing
Notes to Physician	Treat symptomatically.

### Section 5 - Fire Fighting Measures

### Suitable Extinguishing Media

Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

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

No information available.

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

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Do not allow run-off from fire-fighting to enter drains or water courses.

### Hazardous Combustion Products

Chlorine, Burning produces obnoxious and toxic fumes, Hydrogen chloride gas.

### **Decomposition Temperature**

> 140°C

### 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**

Wear self-contained breathing apparatus and protective suit. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

#### **Environmental Precautions**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

#### Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

#### 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

Use only under a chemical fume hood. Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance.

#### **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 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. Peroxides. Metals.

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

### Section 8 - Exposure Controls and Personal Protection

### Control parameters

#### **Exposure limits**

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

**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.

**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

Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
Nickel(II) chloride		TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	STEL: 0.3 mg/m <sup>3</sup> 15 min
hexahydrate (1:2:6)		-	-	TWA: 0.1 mg/m <sup>3</sup> 8 hr
				Skin
Nickel(II) chloride		TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 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

Skin	 		
			Skin

### **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
Nickel(II) chloride			30 μg/L Medium: urine	
hexahydrate (1:2:6)			Time: post-shift at end of	
			workweek Determinant: Nickel	
Nickel(II) chloride			30 µg/L	
			Medium: urine Time: post-shift at end of	
			workweek	
			Determinant: Nickel	

#### Appropriate engineering controls

#### Engineering Measures

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. 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	Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial applications)

Protective gloves

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

#### Inspect gloves before use.

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.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure
Repiratory Protection Recommended Filter type: Recommended half mask:-	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) Particle filtering: EN149:2001 (or AUS/NZ equivalent) When RPE is used a face piece Fit Test should be conducted
Hygiene Measures Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice. Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

### Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Solid	
Appearance	Green	
Odor	Odorless	
Odor Threshold	No data available	
рН	4-6	5% aq.sol
Melting Point/Range	1001 °C	
Softening Point	No data available	
Boiling Point/Range	No information available	
Flammability (liquid)	Not applicable	Solid
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	
Decomposition Temperature	> 140°C	
Viscosity	Not applicable	Solid
Water Solubility	2540 g/l water (20°C)	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/v	vater)	
Vapor Pressure	1 mmHg @ 615.6 °C	
Density / Specific Gravity	0	
Bulk Density	1.92 g/cm3	
Vapor Density	Not applicable	Solid
Particle characteristics	No data available	
Other information		
Molecular Formula	Cl2 Ni . 6 H2 O	
Molecular Weight	237.71	

### 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	No information available.
Conditions to Avoid	Avoid dust formation, Excess heat, Incompatible products.
Incompatible Materials	Strong acids, Peroxides, Metals.

Not applicable - Solid

Hazardous Decomposition Products Chlorine. Burning produces obnoxious and toxic fumes. Hydrogen chloride gas.

### Section 11 - Toxicological Information

### Acute Effects

Evaporation Rate

### Information on likely routes of exposure

### **Product Information**

Inhalation

Not an expected route of exposure.

Eyes	Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness. May cause irritation.
Skin	Avoid contact with skin. Skin Corrosion/Irritation. May cause irritation.
Ingestion	May be harmful if swallowed.

Numerical measures of toxicity

(a) acute toxicity;

Oral	
Dermal	
Inhalation	

Category 3 No data available Category 3

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel(II) chloride hexahydrate (1:2:6)	LD50 = 105 mg/kg (Rat)		
	· ·		
Nickel(II) chloride	LD50 = 175 mg/kg (Rat)		

(b) skin corrosion/irritation;	Category 2
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(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization Respiratory Skin	Category 1 Category 1
Sensitization	May cause sensitization by skin contact
(e) germ cell mutagenicity;	Category 2
	Possible risk of irreversible effects
(f) carcinogenicity;	Category 1A

The table below indicates whether each agency has listed any ingredient as a carcinogen May cause cancer by inhalation

Component	New Zealand	Australia	New South	Western	IARC	EU	UK	Germany
			Wales	Australia				
Nickel(II) chloride					Group 1			
hexahydrate (1:2:6)								
Nickel(II) chloride					Group 1	Carc Cat. 1A		Cat. 1

(g) reproductive toxicity; Reproductive Effects	Category 1B May cause harm to the unborn child
(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	Category 1
Target Organs	Skin, Respiratory system.
(j) aspiration hazard;	Not applicable Solid
Other Adverse Effects	The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

### Symptoms / effects,both acute and delayed

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

### **Section 12 - Ecological Information**

**Ecotoxicity** 

Aquatic ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Nickel(II) chloride	LC50: = 6.9 mg/L, 96h	EC50: = 6.68 mg/L, 48h	EC50: 0.0063 - 0.0125	
	static (Cyprinus carpio)	(Daphnia magna)	mg/L, 96h static	
	LC50: = 1.3 mg/L, 96h	EC50: = 0.51 mg/L, 48h	(Pseudokirchneriella	
	semi-static (Cyprinus	Static (Daphnia magna)	subcapitata)	
	carpio)		EC50: = 0.66 mg/L, 72h	
	LC50: > 100 mg/L, 96h		(Pseudokirchneriella	
	static (Brachydanio		subcapitata)	
	rerio)			
	LC50: 2.83 - 5.99 mg/L,	,		
	96h static (Poecilia			
	reticulata)			
	LC50: 29.76 - 43.57			
	mg/L, 96h semi-static			
	(Poecilia reticulata)			
	LC50: = 9.65 mg/L, 96h			
	flow-through (Poecilia			
	reticulata)			
	LC50: = 25 mg/L, 96h			
	flow-through			
	(Pimephales promelas)			
	LC50: 2.02 - 6.88 mg/L,	,		
	96h static (Pimephales			
	promelas)			
	LC50: 1.9 - 4 mg/L, 96h			
	(Pimephales promelas)			
	LC50: 6.63 - 9.15 mg/L,	,		
	96h static			
	(Oncorhynchus mykiss)			
	LC50: 6.7 - 9.7 mg/L,			
	96h flow-through			
	(Oncorhynchus mykiss)			
	LC50: 2.02 - 6.88 mg/L,	,		
	96h static (Lepomis			
	macrochirus)			
	LC50: 18.1 - 25.5 mg/L, 96h flow-through			
	(Lepomis macrochirus)			
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rial agataviaity	Thora is no data for th	vic product		
strial ecotoxicity	There is no data for th	nis product		

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Persistence and Degradability	
Persistence	Soluble in water, Persistence is unlikely, based on information available.
Degradability Degradation in sewage treatment plant	Not relevant for inorganic substances. Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.
Bioaccumulative Potential	Bioaccumulation is unlikely
Mobility	The product is water soluble, and may spread in water systems. Will likely be mobile in the

environment due to its 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. Do not let this chemical enter the environment.

### Section 14 - Transport Information

### NZS 5433:2020

UN-No Proper Shipping Name Technical Shipping Name Hazard Class Packing Group	UN3288 Toxic solid, inorganic, n.o.s. Nickel (II) chloride 6.1 III
IATA	
UN-No Proper Shipping Name Technical Shipping Name Hazard Class Packing Group	UN3288 Toxic solid, inorganic, n.o.s. Nickel (II) chloride 6.1 III
IMDG/IMO	
UN-No Proper Shipping Name Technical Shipping Name Hazard Class Packing Group	UN3288 Toxic solid, inorganic, n.o.s. Nickel (II) chloride 6.1 III
Environmental hazards	Dangerous for the environment Product is a marine pollutant according to the criteria set by IMDG/IMO
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable, packaged goods

**Special Precautions** 

No special precautions required. Please refer to the applicable dangerous goods regulations for additional information.

Additional information

### Section 15 - Regulatory Information

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

None known

HSNO Approval Number	HSR002508

#### **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.

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

### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Nickel(II) chloride hexahydrate (1:2:6)	-	Use restricted. See item 27. (see link for restriction details)	-
Nickel(II) chloride	-	Use restricted. See item 28. (see link for restriction details) Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) Use restricted. See item 27. (see link for restriction details)	_

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

#### International Inventories

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ENCS), 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
Nickel(II) chloride hexahydrate	7791-20-0	Х	Х	-	-	-	-	Х	Х
(1:2:6)									

Nickel(II) chloride	7718-54-9	Х	Х	-	-	-	KE-25837	Х	Х
Component	CAS No	TSCA	notific	iventory ation - Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Nickel(II) chloride hexahydrate (1:2:6)	7791-20-0	-		-	-	-	Х	Х	Х
Nickel(II) chloride	7718-54-9	Х	ACT	IVE	Х	-	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	AICS - Australian Inventory of Chemical Substances
<b>TSCA</b> - United States Toxic Substances Control Act Section 8(b)	EINECS/ELINCS - European Inventory of Existing Commercial Chemical
Inventory	Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic	ENCS - Japanese Existing and New Chemical Substances
Substances List	Entre Supariose Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances	<b>KECL</b> - Korean Existing and Evaluated Chemical Substances
<b>PICCS</b> - Philippines Inventory of Chemicals and Chemical Substances	CAS - Chemical Abstracts Service
TWA - Time Weighted Average	ACGIH - American Conference of Governmental Industrial Hygienists
IARC - International Agency for Research on Cancer	PNEC - Predicted No Effect Concentration
NZS 5433:2020 - Transport of Dangerous Goods on Land	OECD - Organisation for Economic Co-operation and Development
<b>ICAO/IATA</b> - International Civil Aviation Organization/International Air	<b>IMO/IMDG</b> - International Maritime Organization/International Maritime
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Transport Association	Dangerous Goods Code
MARPOL - International Convention for the Prevention of Pollution from	ADG - Australian Code for the Transport of Dangerous Goods by Road
Ships	and Rail
LD50 - Lethal Dose 50%	LC50 - Lethal Concentration 50%
EC50 - Effective Concentration 50%	ATE - Acute Toxicity Estimate
WEL - Workplace Exposure Limit	RPE - Respiratory Protective Equipment
DNEL - Derived No Effect Level	<b>NOEC</b> - No Observed Effect Concentration
POW - Partition coefficient Octanol:Water	BCF - Bioconcentration factor
vPvB - very Persistent, very Bioaccumulative	<b>PBT</b> - Persistent, Bioaccumulative, Toxic
VOC - (Volatile Organic Compound)	
Key literature references and sources for data	

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

Revision Date	16-Mar-2023
Revision Summary	Not applicable

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**