

Australian statement of hazardous nature: Classified as hazardous according to criteria of Safe Work Australia

### Section 1 - Identification

Product Name ZincoVer 5 zinc reagent powder pillow

Product Code HAC46700-09, HAC58700-09, HAC24293-00, HAC22448-00, HAC21066-69,

HAC14032-68

Address ThermoFisher Scientific Australia Pty Ltd

5 Caribbean Drive, Scoresby VICTORIA 3179, Australia

Emergency Tel. CHEMTREC®

03 9757 4559 or +613 9757 4559

Telephone / Fax Numbers Tel: 1300 735 292

Fax: 1800 067 639

E-mail address ANZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Uses advised against This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list.

Verify requirements related to using, handling and storing these substances. This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction. This product contains one or more substance(s) listed on the voluntary National Code of

Practice for Chemicals of Security Concern.

# Section 2 - Hazard(s) Identification

### Classification under Safe Work Australia

Classified as hazardous according to criteria of Safe Work Australia

#### Physical hazards

Substances/mixtures corrosive to metal Category 1

### **Health hazards**

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity - Dusts and Mists

Reproductive Toxicity

Specific target organ toxicity - (single exposure)

Specific target organ toxicity - (repeated exposure)

Category 1

Specific target organ toxicity - (repeated exposure)

Category 2

**Environmental hazards** 

Chronic aquatic toxicity Category 2

**Label Elements** 

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Skull and Crossbones

Health Hazard

Corrosion

### Signal Word

### Danger

#### **Hazard Statements**

H290 - May be corrosive to metals

H331 - Toxic if inhaled

H360 - May damage fertility or the unborn child

H370 - Causes damage to organs

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

H300 + H310 - Fatal if swallowed or in contact with skin

AUH032 - Contact with acids liberates very toxic gas

### **Precautionary Statements**

P201 - Obtain special instructions before use

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

P234 - Keep only in original packaging

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P262 - Do not get in eyes, on skin, or on clothing

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

P330 - Rinse mouth

P390 - Absorb spillage to prevent material damage

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

P361 + P364 - Take off immediately all contaminated clothing and wash it before reuse

P402 - Store in a dry place

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

P406 - Store in corrosion resistant polypropylene container with a resistant inliner

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

#### Other information

No information available

This product does not contain any known or suspected endocrine disruptors

# Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Boron potassium oxide (B4K2O7)	1332-77-0	50-60
Boron oxide	1303-86-2	10-20
Potassium cyanide	151-50-8	1-5

## Section 4 - First Aid Measures

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# ZincoVer 5 zinc reagent powder pillow

### SAFETY DATA SHEET

Inhalation Remove to fresh air. If not breathing, give artificial respiration. 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.

Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes.

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

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.

### 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. Thermal decomposition can lead to release of irritating gases and vapors.

### Section 6 - Accidental Release Measures

### **Emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

#### **Environmental Precautions**

Do not flush into surface water or sanitary sewer system.

### Methods for Containment and Clean Up

#### Clean-up methods - small spillage

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

#### Clean-up methods - large spillage

Typically only supplied is small quantiites as packaged goods.

If extremely toxic or used in larger quantities ensure a spillage action plan is in place. Evacuate area. Control the source and/or

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contain the spill if safe and able to do so. Use temporary diking, sand bags, dry sand, earth or proprietary booms/absorbent pads if available. Obtain advice on containment, neutralisation and clean-up from local emergency responders.

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

Refer to protective measures listed in Sections 8 and 13.

### Section 7 - Handling and Storage

### **Precautions for Safe Handling**

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

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

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

# Section 8 - Exposure Controls and Personal Protection

### **Exposure limits**

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.

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

**DE** - MAK and BAT values of Hazardous Chemical Compounds in the Work Area. Published by German Research Foundation on July 1, 2011

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

Component	Australia	New Zealand WEL	ACGIH TLV	The United Kingdom	Germany
Boron potassium oxide (B4K2O7)			TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>		
Boron oxide	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup> 15 min TWA: 10 mg/m <sup>3</sup> 8 hr	
Potassium cyanide	TWA: 5 mg/m³	TWA: 5 mg/m³ Skin	Ceiling: 5 mg/m³ Skin	STEL: 5 mg/m³ 15 min TWA: 1 mg/m³ 8 hr Skin	TWA: 1 mg/m³ (8 Stunden). AGW - exposure factor 5 TWA: 5.0 mg/m³ (8 Stunden). MAK TWA: 2 mg/m³ (8 Stunden). MAK Höhepunkt: 5.0 mg/m³ Höhepunkt: 2 mg/m³ Haut

### **Biological limit values**

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

### **Exposure Controls**

### **Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

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

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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)

Hand Protection Protective gloves

Glove material Breakthrough time Glove thickness AUS/NZ Standard Glove comments

Disposable gloves See manufacturers - AS/NZS 2161 (minimum requirement)

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 Long sleeved clothing

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 (or AUS/NZ equivalent)

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

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

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

system.

# Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance Purple Physical State Solid

Odor No information available

Odor Threshold No data available

**pH** 8.7

Melting Point/Range 155 °C / 311 °F Softening Point No data available Boiling Point/Range Not applicable

Flash Point Not applicable Method - No information available

Evaporation Rate Not applicable Solid

Flammability (solid,gas) No information available

Explosion Limits No data available

Vapor Pressure No data available

Vapor Density Not applicable Solid

Specific Gravity / Density
Bulk Density
Water Solubility
Solubility in other solvents

No data available
No data available
No information available
No information available

Partition Coefficient (n-octanol/water)

Autoignition Temperature No data available

Decomposition Temperature

No data available

Viscosity Not applicable Solid

**Explosive Properties**No information available **Oxidizing Properties**No information available

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Other information

# Section 10 - Stability and Reactivity

Reactivity Yes Contact with acids liberates very toxic gas

**Stability** Stable under normal conditions.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

**Hazardous Polymerization** No information available.

# Section 11 - Toxicological Information

### Information on Toxicological Effects

### **Product Information**

(a) acute toxicity;

OralCategory 2DermalCategory 2InhalationCategory 3

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Boron potassium oxide (B4K2O7)		LD50 > 2000 mg/kg (Rabbit)	LC50 > 2.04 mg/L (Rat) 4 h		
, ,			, ,		
Potassium cyanide	LD50 = 7.49 mg/kg (Rat)	LD50 = 22.3 mg/kg ( Rabbit )	LC50 = 0.16 mg/L (Rat) 1 h		
,		3 3 \ ,	3 ( )		

(b) skin corrosion/irritation; No data available

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

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Category 1B

(h) STOT-single exposure; Category 2

(i) STOT-repeated exposure; Category 2

Target Organs No information available.

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(j) aspiration hazard; Not applicable

Solid

Symptoms / effects,both acute and No information available

delayed

# Section 12 - Ecological Information

**Ecotoxicity effects** 

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
Boron oxide	LC50: 570 mg/L/72h	EC50: 370 - 490 mg/L,		
	(Carassius auratus)	48h (Daphnia magna)		
Potassium cyanide	LC50: 0.31 - 0.37 mg/L,			
	96h static (Pimephales			
	promelas)			
	LC50: = 0.0588  mg/L,			
	96h flow-through			
	(Poecilia reticulata)			
	LC50: 0.45 - 0.57 mg/L,			
	96h flow-through			
	(Lepomis macrochirus)			
	LC50: = 0.45 mg/L, 96h			
	(Lepomis macrochirus)			
	LC50: 0.01 - 0.08 mg/L,			
	96h static (Lepomis			
	macrochirus)			
	LC50: 0.044 - 0.084			
	mg/L, 96h static			
	(Oncorhynchus mykiss)			
	LC50: 0.04 - 0.046			
	mg/L, 96h flow-through			
	(Oncorhynchus mykiss)			

Persistence and Degradability Degradation in sewage No information available

treatment plant
Bioaccumulative Potential

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

water treatment plants. No information available

**Mobility** 

No information available.

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 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

Chemical wastes should be disposed through a licensed commercial waste collection service. 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

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IMDG/IMO

UN-No UN1588

Proper Shipping Name
Cyanides, inorganic, solid, n.o.s.
Potassium cyanide mixture

Hazard Class 6.1
Packing Group

Component	IMDG Marine Pollutant
Potassium cyanide	IMDG regulated marine pollutant (UN1680, listed under
151-50-8 ( 1-5 )	Potassium cyanide, solid); IMDG regulated marine pollutant
	(UN3413, listed under Potassium cyanide, solution) IMDG
	regulated marine pollutant (UN1588)

#### ADG

UN-No UN1588

**Proper Shipping Name Technical Shipping Name**Cyanides, inorganic, solid, n.o.s.
Potassium cyanide mixture

Hazard Class 6.1
Packing Group

Component	Hazchem Code
Potassium cyanide	2X
151-50-8 ( 1-5 )	

### <u>IATA</u>

UN-No UN1588

Proper Shipping Name Cyanides, inorganic, solid, n.o.s.

Technical Shipping Name Potassium cyanide mixture

Hazard Class 6.1 Packing Group III

Environmental hazards Dangerous for the environment

Product is a marine pollutant according to the criteria set by IMDG/IMO

Special Precautions No special precautions required

Additional information None known

# Section 15 - Regulatory Information

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

National Regulations Australia

See section 8 for national exposure control parameters.

Component	Health Surveillance
Potassium cyanide	Scheduled S7
151-50-8 ( 1-5 )	

### Standard for the Uniform Scheduling of Medicines and Poisons

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons.

Component	Standard for the Uniform Scheduling of Medicines and Poisons
Boron potassium oxide (B4K2O7) -	Schedule 4 listed - for human therapeutic use except: in preparations for internal use containing <=6
1332-77-0	mg Boron per recommended daily dose, in preparations for dermal use containing <=0.35% of Boron,
	which are not for paediatric or antifungal use, or when present as an excipient
	Schedule 5 listed - except: a) when included in Schedule 4, or b) in cosmetic hand cleaning
	preparations when labelled with a warning to the following effect: NOT TO BE USED FOR CHILDREN

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	UNDER 3 YEARS OF AGE, and if the concentration of free soluble Borates >1.5% (as Boric acid), with the words: NOT TO BE USED ON PEELING OR IRRITATED SKIN, or c) in cosmetic Talc preparations
	containing <=5% calculated as Boric acid when labelled with a warning to the following effect: NOT TO
	BE USED FOR CHILDREN UNDER 3 YEARS OF AGE, and if the concentration of free soluble
	Borates >1.5% (as Boric acid), with the words: NOT TO BE USED ON PEELING OR IRRITATED
	SKIN, or d) in cosmetic oral hygiene preparations containing <=0.1% calculated as Boric acid when
	labelled with a warning to the following effect: NOT TO BE SWALLOWED. NOT TO BE USED FOR
	CHILDREN UNDER 3 YEARS OF AGE, or e) in other cosmetic preparations containing <=3%
	calculated as Boric acid when labelled with a warning to the following effect: NOT TO BE USED FOR
	CHILDREN UNDER 3 YEARS OF AGE, and if the concentration of free soluble Borates >1.5% (as
	Boric acid), with the words: NOT TO BE USED ON PEELING OR IRRITATED SKIN, or f) in
	preparations, other than insect baits, containing <=6%, calculated as Boric acid
Potassium cyanide - 151-50-8	Schedule 7- listed

### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

Component	Australian Industrial Chemicals Introduction Scheme (AICIS)	Additional information
Boron potassium oxide (B4K2O7) -	Present	-
1332-77-0		
Boron oxide - 1303-86-2	Present	-
Potassium cyanide - 151-50-8	Present	-

### Australian - Illicit Drug Precursors/Reagents Substance List

This product contains one or more substance(s) on the Illicit Drug Precursors/Reagents list. Verify requirements related to using, handling and storing these substances.

### **Chemicals of Security Concern**

This product contains one or more substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

Component	Australian - Illicit Drug Precursors/Reagents Substance List	Chemicals of Security Concern
Potassium cyanide - 151-50-8	Category 3	Listed in Appendix A Toxic chemicals - concentration >=0%
		Toxic chemicals - concentrat

#### Legend

Category 3 - Chemicals and apparatus that may be used in the illicit production of drugs. Purchases from this list should alert companies or organizations to seek further indicators of any suspicious orders or enquiries. No official reporting is required for items on this list unless considered warranted

Chemicals of Security Concern - for further information see http://www.chemicalsecurity.gov.au/security.concerns

National pollutant inventory Not applicable

### Prohibition or notification/licensing requirements

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

This product does not contain any substance(s) subject to Prohibition, Authorization or Restriction.

### **International Inventories**

Component	AICS	NZIoC	EINECS	ELINCS	TSCA	DSL	NDSL	PICCS	<b>ENCS</b>	ISHL	IECSC	KECL
Boron potassium oxide	X	Х	215-575-5	-	X	Х	-	Χ	-		Х	KE-12187
(B4K2O7)												
Boron oxide	X	X	215-125-8	-	X	Х	-	Χ	Χ	Х	Х	KE-09919
Potassium cyanide	Χ	Х	205-792-3	-	X	Х	-	Χ	Χ	Х	Х	KE-29092

Legend: X - Listed. '-' - Not Listed. KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

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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

MARPOL - International Convention for the

Prevention of Pollution from Ships

Component	IMDG Marine Pollutant		
Potassium cyanide - 151-50-8	IMDG regulated marine pollutant (UN1680, listed under Potassium cyanide, solid); IMDG regulated		
	marine pollutant (UN3413, listed under Potassium cyanide, solution) IMDG regulated marine pollutant		
	(UN1588)		

### Basel convention on the control of transboundary movements of hazardous wastes and their dispoal

Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

Component	Basel Convention (Hazardous Waste)	Australian Hazardous Waste Act - Categories	
		of Wastes to Be Controlled	
Potassium cyanide - 151-50-8	Annex I - Y33	Y33	

Component	CAS No	OECD HPV	Restriction of Hazardous Substances (RoHS)	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements
Boron potassium oxide (B4K2O7)	1332-77-0	Not applicable	Not applicable	Not applicable	Not applicable
Boron oxide	1303-86-2	Listed	Not applicable	Not applicable	Not applicable
Potassium cyanide	151-50-8	Listed	Not applicable	Not applicable	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	,
Boron potassium oxide (B4K2O7)	-	Use restricted. See item 75. (see link for restriction details)	-
Boron oxide	-	Use restricted. See item 30. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	SVHC Candidate list - Toxic for reproduction (Article 57 c)
Potassium cyanide	-	Use restricted. See item 75. (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/candidate-list-table

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

# Section 16 - Other Information

Legend

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AICS - Australian Inventory of Chemical Substances

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

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

MARPOL - International Convention for the Prevention of Pollution from Ships

NZS 5433:2020 - Transport of Dangerous Goods on Land

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)

NZIoC - New Zealand Inventory of Chemicals

**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

Predicted No Effect Concentration (PNEC)

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

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

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

https://echa.europa.eu/information-on-chemicals

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### **Training Advice**

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

Revision Date 14-Jul-2023

**Revision Summary** Update to GHS format.

This Safety Data Sheet (SDS) is prepared in accordance to and complies with the requirements of Safe Work Australia - Work Health and Safety Regulations (WHS Regulations).

### 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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