

## SAFETY DATA SHEET

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

## Section 1 - Identification

Product Name <u>Mirex</u>

Product Code SPXS-2635-ACN

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 does not contain any 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

Flammable liquids Category 2

**Health hazards** 

Acute Oral Toxicity

Acute Dermal Toxicity

Acute Inhalation Toxicity - Vapors

Serious Eye Damage/Eye Irritation

Category 4

Category 4

Category 4

Category 2

**Environmental hazards** 

No hazards identified

Label Elements

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Flame

**Exclamation Mark** 

### Signal Word

### Danger

### **Hazard Statements**

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled

#### **Precautionary Statements**

P201 - Obtain special instructions before use

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

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

P233 - Keep container tightly closed

P240 - Ground and bond container and receiving equipment

P242 - Use non-sparking tools

P243 - Take action to prevent static discharges

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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 eye protection/ face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

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

P312 - Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

P363 - Wash contaminated clothing before reuse

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

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

#### Other information

Toxicity to Soil Dwelling Organisms

Toxic to terrestrial vertebrates

This product does not contain any known or suspected endocrine disruptors

# Section 3 - Composition and Information on Ingredients

| Component    | CAS No    | Weight % |
|--------------|-----------|----------|
| Acetonitrile | 75-05-8   | 99.9     |
| Mirex        | 2385-85-5 | 0.1      |

## Section 4 - First Aid Measures

Inhalation

Remove to fresh air.

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**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

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

Difficulty in breathing. . Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically.

# Section 5 - Fire Fighting Measures

### **Suitable Extinguishing Media**

Water mist may be used to cool closed containers.

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

No information available.

### Specific Hazards Arising from the Chemical

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

### 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

### **Emergency procedures**

Remove all sources of ignition. Take precautionary measures against static discharges.

### **Environmental Precautions**

See Section 12 for additional Ecological Information.

### Methods for Containment and Clean Up

### Clean-up methods - small spillage

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

### 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 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

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### **Precautions for Safe Handling**

Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals AS 1940-2004 - The storage and handling of flammable and combustible liquids

## 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                         |
|--------------|-----------------------------|-----------------------------|-------------|--------------------------------|---------------------------------|
| Acetonitrile | STEL: 60 ppm                | TWA: 40 ppm                 | TWA: 20 ppm | STEL: 60 ppm 15 min            | TWA: 10 ppm (8                  |
|              | STEL: 101 mg/m <sup>3</sup> | TWA: 67 mg/m <sup>3</sup>   | Skin        | STEL: 102 mg/m <sup>3</sup> 15 | Stunden). AGW -                 |
|              | TWA: 40 ppm                 | STEL: 60 ppm                |             | min                            | exposure factor 2               |
|              | TWA: 67 mg/m <sup>3</sup>   | STEL: 101 mg/m <sup>3</sup> |             | TWA: 40 ppm 8 hr               | TWA: 17 mg/m <sup>3</sup> (8    |
|              |                             | Skin                        |             | TWA: 68 mg/m <sup>3</sup> 8 hr | Stunden). AGW -                 |
|              |                             |                             |             |                                | exposure factor 2               |
|              |                             |                             |             |                                | TWA: 10 ppm (8                  |
|              |                             |                             |             |                                | Stunden). MAK                   |
|              |                             |                             |             |                                | TWA: 17 mg/m <sup>3</sup> (8    |
|              |                             |                             |             |                                | Stunden). MAK TWA: 2            |
|              |                             |                             |             |                                | mg/m³ (8 Stunden).              |
|              |                             |                             |             |                                | MAK                             |
|              |                             |                             |             |                                | Höhepunkt: 20 ppm               |
|              |                             |                             |             |                                | Höhepunkt: 34 mg/m <sup>3</sup> |
|              |                             |                             |             |                                | Höhepunkt: 2 mg/m <sup>3</sup>  |
|              |                             |                             |             |                                | 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 that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment.

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

Personal protective equipment

**Eye Protection** Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial

applications)

Hand Protection Protective gloves

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| 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

> > Liquid

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** No information available.

# Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance** Clear **Physical State** Liquid

Odor No information available **Odor Threshold** No data available Not applicable рH

No data available 55555 Melting Point/Range **Softening Point** No data available **Boiling Point/Range** 81 °C / 177.8 °F

5 °C / 41 °F Flash Point Method - No information available

No data available **Evaporation Rate** Flammability (solid,gas) Not applicable

**Explosion Limits** No data available

No data available **Vapor Pressure** 

**Vapor Density** No data available (Air = 1.0)Specific Gravity / Density No data available

Not applicable **Bulk Density** Liquid Soluble in water

**Water Solubility** Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

log Pow Component Acetonitrile -0.34

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

**Explosive Properties** Vapors may form explosive mixtures with air

**Oxidizing Properties** No information available

Other information

# Section 10 - Stability and Reactivity

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**Reactivity** None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

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 4DermalCategory 4InhalationCategory 4

| Component    | LD50 Oral              | LD50 Dermal               | LC50 Inhalation                            |
|--------------|------------------------|---------------------------|--|
| Acetonitrile | 450-787 mg/kg (Rat)    | > 2000 mg/kg (Rabbit)     | LC50 = 3587 ppm (6.022 mg/l)<br>(Mouse) 4h |
|              | 2460 mg/kg (Rat)       |                           | LC50 = 16,000 ppm (26.8 mg/l)              |
|              |                        |                           | (Rat) 4h                                   |
| Mirex        | LD50 = 235 mg/kg (Rat) | LD50 = 410 mg/kg (Rabbit) |  |
|              |                        |                           |  |

(b) skin corrosion/irritation; Based on available data, the classification criteria are not met

(c) serious eye damage/irritation; Category 2

(d) respiratory or skin sensitization;

**Respiratory**Skin

Based on available data, the classification criteria are not met
Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Based on available data, the classification criteria are not met

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

| Component | Australia | New Zealand | New South<br>Wales | Western<br>Australia | IARC     | EU | UK | Germany |
|-----------|-----------|-------------|--------------------|----------------------|----------|----|----|---------|
| Mirex     |           |             |                    |                      | Group 2B |    |    |         |

(g) reproductive toxicity; Based on available data, the classification criteria are not met

(h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; Based on available data, the classification criteria are not met

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delayed

Symptoms / effects, both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

# Section 12 - Ecological Information

**Ecotoxicity effects** 

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| Component    | Freshwater Fish        | Water Flea | Freshwater Algae | Microtox              |
|--------------|------------------------|------------|------------------|-----------------------|
| Acetonitrile | LC50: = 1850 mg/L, 96h |            |                  | EC50 = 28000 mg/L 48  |
|              | static (Lepomis        |            |                  | h h                   |
|              | macrochirus)           |            |                  | EC50 = 73 mg/L 24 h   |
|              | LC50: = 1000 mg/L, 96h |            |                  | EC50 = 7500 mg/L 15 h |
|              | static (Pimephales     |            |                  |                       |
|              | promelas)              |            |                  |                       |
|              | LC50: 1600 - 1690      |            |                  |                       |
|              | mg/L, 96h flow-through |            |                  |                       |
|              | (Pimephales promelas)  |            |                  |                       |
|              | LC50: = 1650 mg/L, 96h |            |                  |                       |
|              | static (Poecilia       |            |                  |                       |
|              | reticulata)            |            |                  |                       |
|              |                        |            |                  |                       |

Persistence and Degradability

**Persistence** 

**Bioaccumulative Potential** 

Persistence is unlikely, based on information available.

Bioaccumulation is unlikely

| Component    | log Pow | Bioconcentration factor (BCF) |
|--------------|---------|-------------------------------|
| Acetonitrile | -0.34   | No data available             |
| NA . 1 1114  |         | (\( (OO) \)                   |

Mobility

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Will likely be mobile in the environment due to its volatility Disperses rapidly in air

**Endocrine Disruptor Information** 

| Component | EU - Endocrine Disrupters | EU - Endocrine Disruptors - | Japan - Endocrine Disruptor |
|-----------|---------------------------|-----------------------------|-----------------------------|
|           | Candidate List            | Evaluated Substances        | Information                 |
| Mirex     | Group I Chemical          | High Exposure Concern       |                             |

**Persistent Organic Pollutant Ozone Depletion Potential** 

See table for values

This product does not contain any known or suspected substance

| Component | Persistent Organic Pollutant                 | Ozone Depletion Potential |
|-----------|--|---------------------------|
| Mirex     | Annex I - Substance subject to prohibitions  |                           |
|           | Annex IV: 50 mg/kg (Waste Management - Conc. |                           |
|           | Limit)                                       |                           |
|           | Annex V: 5000 mg/kg (Waste Management - Max. |                           |
|           | Conc. Limit)                                 |                           |
|           | Stockholm Convention - Persistent Organic    |                           |
|           | Pollutant                                    |                           |

# 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. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

Other Information

Chemical wastes should be disposed through a licensed commercial waste collection service. Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations.

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# Section 14 - Transport Information

### IMDG/IMO

UN-No
Proper Shipping Name
Technical Shipping Name
UN1648
ACETONITRILE
Mirex and Acetonitrile

Hazard Class 3
Packing Group ||

| Component         | IMDG Marine Pollutant                                 |
|-------------------|---|
| Mirex             | IMDG regulated marine pollutant (Listed in the index) |
| 2385-85-5 ( 0.1 ) |   |

### ADG

UN-No UN1648

Proper Shipping Name ACETONITRILE
Technical Shipping Name Mirex and Acetonitrile

Hazard Class 3 Packing Group 1

| Component        | Hazchem Code |
|------------------|--------------|
| Acetonitrile     | 2YE          |
| 75-05-8 ( 99.9 ) |              |

### IATA

UN-No
Proper Shipping Name
Technical Shipping Name
Mirex and Acetonitrile

Hazard Class 3
Packing Group ||

Environmental hazards No hazards identified

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.

### 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 |
|-------------------|--|
| Mirex - 2385-85-5 | Schedule 7 listed  |

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

| Component | Australian Industrial  | Additional information |
|-----------|------------------------|------------------------|
|           | Chemicals Introduction |                        |
|           | Scheme (AICIS)         |                        |

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| Acetonitrile - 75-05-8 | 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 does not contain any substance(s) listed on the voluntary National Code of Practice for Chemicals of Security Concern

| Component              | Australian - Illicit Drug<br>Precursors/Reagents Substance List | Chemicals of Security Concern |
|------------------------|---|-------------------------------|
| Acetonitrile - 75-05-8 | Category 3  |                               |

#### 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

### National pollutant inventory Subject to reporting requirements

| Component              | National pollutant inventory      |
|------------------------|-----------------------------------|
| Acetonitrile - 75-05-8 | 10 tonne/yr. Threshold category 1 |

### 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     |
|--------------|------|-------|-----------|--------|------|-----|------|-------|-------------|------|-------|----------|
| Acetonitrile | X    | Х     | 200-835-2 | -      | Χ    | Χ   | -    | Х     | Х           | Х    | Х     | KE-00067 |
| Mirex        | -    | -     | 219-196-6 | -      | -    | -   | -    | -     | -           |      | Х     | -        |

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

### International Regulations

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

### Persistent Organic Pollutant See table for values

| Component         | Persistent Organic Pollutant                              |
|-------------------|---|
| Mirex - 2385-85-5 | Annex I - Substance subject to prohibitions               |
|                   | Annex IV : 50 mg/kg (Waste Management - Conc. Limit)      |
|                   | Annex V: 5000 mg/kg (Waste Management - Max. Conc. Limit) |
|                   | Stockholm Convention - Persistent Organic Pollutant       |

Rotterdam Convention (PIC) Not applicable

### MARPOL - International Convention for the

Prevention of Pollution from Ships

| 10 Volition of 1 dilution non only o |   |  |  |  |  |
|--------------------------------------|---|--|--|--|--|
| Component                            | IMDG Marine Pollutant                                 |  |  |  |  |
| Mirex - 2385-85-5                    | IMDG regulated marine pollutant (Listed in the index) |  |  |  |  |

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

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Not applicable.

| Component              | Basel Convention (Hazardous Waste) | Australian Hazardous Waste Act - Categories |
|------------------------|------------------------------------|---|
|                        |                                    | of Wastes to Be Controlled                  |
| Acetonitrile - 75-05-8 |                                    | Y38   |

| Component    | CAS No    | OECD HPV       | Restriction of<br>Hazardous<br>Substances (RoHS) | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements |
|--------------|-----------|----------------|--|---|--|
| Acetonitrile | 75-05-8   | Listed         | Not applicable                                   | Not applicable  | Not applicable   |
| Mirex        | 2385-85-5 | Not applicable | Not applicable                                   | Not applicable  | Not applicable   |

### Authorisation/Restrictions according to EU REACH

| Component    | REACH (1907/2006) - Annex XIV -<br>Substances Subject to<br>Authorization | REACH (1907/2006) - Annex XVII -<br>Restrictions on Certain Dangerous<br>Substances | · · · · · · · · · · · · · · · · · · · |
|--------------|---|---|---------------------------------------|
| Acetonitrile | -   | Use restricted. See item 75. (see link for restriction details)                     | -                                     |
| Mirex        | -   | Use restricted. See item 75. (see link for restriction details)                     | •                                     |

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

# **Section 16 - Other Information**

### Legend

**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

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

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.

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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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