

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

## Section 1 - Identification

**Product Name** Shigella boydii Polyvalent 1 Agglutinating Antisera

**Product Code** R30163901

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

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

E-mail address

No hazards identified

### **Health hazards**

Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2 Germ Cell Mutagenicity Category 2

**Environmental hazards** 

No hazards identified

#### **Label Elements**





OXDR30163901 30-Jun-2023 Version 1 Page 1/10

### Signal Word Warning

### **Hazard Statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H341 - Suspected of causing genetic defects if inhaled

### **Precautionary Statements**

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

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

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 + P364 - Take off contaminated clothing and wash it before reuse

P403 - Store in a well-ventilated place

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 % |
|------------------|-----------|----------|
| Phenol           | 108-95-2  | <1.0     |
| Sodium hydroxide | 1310-73-2 | <0.5     |

## Section 4 - First Aid Measures

**Inhalation** Remove to fresh air. Get medical attention if symptoms occur.

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

**Skin Contact** Wash off immediately with soap and plenty of water. Get medical attention immediately if

symptoms occur.

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Seek immediate medical

attention/advice.

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

No information available.

Notes to Physician Treat symptomatically.

# Section 5 - Fire Fighting Measures

OXDR30163901 Version 1 30-Jun-2023 Page 2 / 10

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

No information available.

### **Hazardous Decomposition Products**

Carbon oxides, Nitrogen oxides (NOx), Hydrogen bromide.

### **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.

## Section 6 - Accidental Release Measures

### **Emergency procedures**

Avoid contact with skin, eyes or clothing. Ensure adequate ventilation.

#### **Environmental Precautions**

See Section 12 for additional Ecological Information.

#### Methods for Containment and Clean Up

#### Clean-up methods - small spillage

Soak up with inert absorbent material. Clean contaminated surface thoroughly.

### 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

### **Precautions for Safe Handling**

Avoid contact with skin, eyes or clothing. Do not breathe mist/vapors/spray. Ensure adequate ventilation.

### Conditions for Safe Storage, Including any Incompatibilities

Keep container tightly closed. Keep at temperatures between 2°C and 8 °C.

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

# Section 8 - Exposure Controls and Personal Protection

### **Exposure limits**

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

OXDR30163901 Version 1 30-Jun-2023 Page 3 / 10

**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

| Component        | Australia                | New Zealand WEL              | ACGIH TLV                    | The United Kingdom                | Germany                     |
|------------------|--------------------------|------------------------------|------------------------------|-----------------------------------|-----------------------------|
| Phenol           | TWA: 1 ppm               | TWA: 1 ppm                   | TWA: 5 ppm                   | STEL: 4 ppm 15 min                | TWA: 2 ppm (8               |
|                  | TWA: 4 mg/m <sup>3</sup> | TWA: 3.8 mg/m <sup>3</sup>   | Skin                         | STEL: 16 mg/m <sup>3</sup> 15 min | Stunden). AGW -             |
|                  | _                        | STEL: 2 ppm                  |                              | TWA: 2 ppm 8 hr                   | exposure factor 2           |
|                  |                          | STEL: 7.7 mg/m <sup>3</sup>  |                              | TWA: 7.8 mg/m <sup>3</sup> 8 hr   | TWA: 8 mg/m <sup>3</sup> (8 |
|                  |                          | Skin                         |                              | Skin                              | Stunden). AGW -             |
|                  |                          |                              |                              |                                   | exposure factor 2           |
|                  |                          |                              |                              |                                   | Haut                        |
| Sodium hydroxide | 2 mg/m³ TWA              | Ceiling: 2 mg/m <sup>3</sup> | Ceiling: 2 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup> STEL          | 2 mg/m3 TWA (inhalable      |
|                  | _                        |                              |                              |                                   | fraction)                   |

### **Biological limit values**

**NZ** - Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

|   | Component | Australia | New Zealand             | European Union | United Kingdom | Germany                  |
|---|-----------|-----------|-------------------------|----------------|----------------|--------------------------|
| Г | Phenol    |           | 100 mg/L (urine) end of |                |                | Phenol (after            |
|   |           |           | shift (Phenol)          |                |                | hydrolysis): 120 mg/g    |
|   |           |           |                         |                |                | Creatinine urine (end of |
|   |           |           |                         |                |                | shift)                   |

### 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

### 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** No information available.

OXDR30163901 Version 1 30-Jun-2023 Page 4/10

# Section 9 - Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance Amber Physical State Liquid

**Odor** No information available

Odor Threshold No data available

**pH** 6.6 - 6.8

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeNot applicableFlash PointNot applicable

Flash Point Not applicable Method - No information available

(Air = 1.0)

Evaporation RateNo data availableFlammability (solid,gas)No information availableExplosion LimitsNo data available

Vapor Pressure No data available Vapor Density No data available

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)

Component log Pow Phenol 1.5

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosityNo data availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

Other information

# Section 10 - Stability and Reactivity

Reactivity None known, based on information available

**Stability** Stable under recommended storage conditions.

**Conditions to Avoid** Heat, flames and sparks.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Hydrogen bromide.

Hazardous Polymerization Hazardous polymerization does not occur.

# Section 11 - Toxicological Information

### **Information on Toxicological Effects**

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information

(a) acute toxicity;

Oral Based on ATE data, the classification criteria are not met

OXDR30163901 Version 1 30-Jun-2023 Page 5 / 10

DermalBased on ATE data, the classification criteria are not metInhalationBased on ATE data, the classification criteria are not met

| L | Component        | LD50 Oral              | LD50 Dermal                | LC50 Inhalation                        |
|---|------------------|------------------------|----------------------------|--|
| ſ | Phenol           | LD50 = 340 mg/kg (Rat) | LD50 = 630 mg/kg (Rabbit)  | LC50 = 316 mg/m <sup>3</sup> (Rat) 4 h |
| L |                  |                        |                            |  |
| ſ | Sodium hydroxide | LD50 = 325 mg/kg (Rat) | LD50 = 1350 mg/kg (Rabbit) |  |
| - | ·                |                        |                            |  |

(b) skin corrosion/irritation; No data available

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

(d) respiratory or skin sensitization;

**Respiratory**Skin
No data available
No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

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 |
|---|-----------|-----------|-------------|--------------------|----------------------|------|----|----|---------|
| Γ | Phenol    |           |             |                    |                      |      |    |    | Cat. 3B |

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and No information available delayed

# 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               |
|------------------|---|-------------------------|--------------------------------|------------------------|
| Phenol           | 4-7 mg/L LC50 96 h  | EC50: 10.2 - 15.5 mg/L, | EC50: 187 - 279 mg/L,          | EC50 21 - 36 mg/L 30   |
|                  | 32 mg/L LC50 96 h   | 48h (Daphnia magna)     | 72h static                     | min                    |
|                  |   | EC50: 4.24 - 10.7 mg/L, | (Desmodesmus                   | EC50 = 23.28 mg/L 5    |
|                  |   | 48h Static (Daphnia     | subspicatus)                   | min                    |
|                  |   | magna)                  | EC50: 0.0188 - 0.1044          | EC50 = 25.61 mg/L 15   |
|                  |   |                         | mg/L, 96h static               | min                    |
|                  |   |                         | (Pseudokirchneriella           | EC50 = 28.8 mg/L 5 min |
|                  |   |                         | subcapitata)                   | EC50 = 31.6 mg/L 15    |
|                  |   |                         | EC50: = $46.42 \text{ mg/L}$ , | min                    |
|                  |   |                         | 96h                            |                        |
|                  |   |                         | (Pseudokirchneriella           |                        |
|                  |   |                         | subcapitata)                   |                        |
|                  |   |                         |                                |                        |
| Sodium hydroxide | LC50: = 45.4 mg/L, 96h<br>static (Oncorhynchus<br>mykiss) | -                       | -                              | -                      |

OXDR30163901 Version 1 30-Jun-2023 Page 6 / 10

|                               |                        |     | <br> |
|-------------------------------|------------------------|-----|------|
|                               |                        |     |      |
| Persistence and Degradability | No information availab | ole |      |
| Bioaccumulative Potential     | No information availab | ole |      |

| Component | log Pow | Bioconcentration factor (BCF) |
|-----------|---------|-------------------------------|
| Phenol    | 1.5     | 17.5 dimensionless            |
|           |         | 647 dimensionless             |

**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** 

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

empty containers.

Other Information

Chemical wastes should be disposed through a licensed commercial waste collection

# Section 14 - Transport Information

IMDG/IMO Not regulated

ADG Not regulated

| Component          | Hazchem Code |
|--------------------|--------------|
| Phenol             | 3X           |
| 108-95-2 ( <1.0 )  | 2X           |
| Sodium hydroxide   | 2W           |
| 1310-73-2 ( <0.5 ) | 2R           |

<u>IATA</u> Not regulated

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.

OXDR30163901 Version 1 30-Jun-2023 Page 7/10

### 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   |
|------------------------------|--|
| Phenol - 108-95-2            | Schedule 2 listed  |
|                              | Schedule 4 listed - in preparations for injection  |
|                              | Schedule 5 listed - including Cresols and Xylenols and any other homologue of phenol boiling below       |
|                              | 220°C;when in animal feed additives;except in preparations containing <=1% of Phenol and in              |
|                              | preparations containing <=3% of Cresols and Xylenols and any other homologues of Phenols                 |
|                              | Schedule 6 listed - including Cresols and Xylenols and any other homologue of phenol boiling below       |
|                              | 220°C;except when separately specified in these Schedules, or in preparations containing <=1% of         |
|                              | Phenols, and in preparations containing <=3% of Cresols and Xylenols and other homologues of             |
|                              | Phenol   |
| Sodium hydroxide - 1310-73-2 | Schedule 5 listed - except its salts and derivatives;in preparations being: solid preparations the pH of |
|                              | which in a 10 g/L aqueous solution is >11.5; liquid or semi-solid preparations the pH of which is >11.5  |
|                              | except in food additive preparations for domestic use  |
|                              | Schedule 6 listed - except its salts and derivatives;except: [a] when included in Schedule 5 or          |
|                              | Schedule 10, [b] in preparations containing <=5% of Sodium hydroxide being: [i] solid preparations, the  |
|                              | pH of which in a 10 g/L aqueous solution is <=11.5, or [ii] liquid or semi-solid preparations the pH of  |
|                              | which is <=11.5  |
|                              | Schedule 10 listed   |

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

|   | Component                    | Australian Industrial<br>Chemicals Introduction<br>Scheme (AICIS) | Additional information |
|---|------------------------------|---|------------------------|
|   | Phenol - 108-95-2            | Present   | -                      |
| I | Sodium hydroxide - 1310-73-2 | 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 |  |  |  |
|------------------------------|---|-------------------------------|--|--|--|
| Sodium hydroxide - 1310-73-2 | 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      |  |  |
|-------------------|-----------------------------------|--|--|
| Phenol - 108-95-2 | 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     |
|-----------------|------|-------|-----------|--------|------|-----|------|-------|-------------|------|-------|----------|
| Phenol          | X    | Х     | 203-632-7 | -      | Х    | Χ   | -    | Х     | Χ           | Χ    | X     | X        |
| Sodium hydroxid | e X  | X     | 215-185-5 | -      | X    | Х   | -    | Х     | Х           | Х    | Х     | KE-31487 |

OXDR30163901 Version 1 30-Jun-2023 Page 8/10

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 This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

### 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 |
|------------------------------|------------------------------------|--|
| Phenol - 108-95-2            | Annex I - Y39                      | Y39  |
| Sodium hydroxide - 1310-73-2 | Annex I - Y35                      | Y35 solid or solution  |

| 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 |
|------------------|-----------|----------|--|---|--|
| Phenol           | 108-95-2  | Listed   | Not applicable                                   | Not applicable  | Not applicable   |
| Sodium hydroxide | 1310-73-2 | Listed   | 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 | , , |
|------------------|---|---|-----|
| Phenol           | -   | Use restricted. See item 75. (see link for restriction details)                     | -   |
| Sodium hydroxide | -   | 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

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

OXDR30163901 Version 1 30-Jun-2023 Page 9 / 10

### Shigella boydii Polyvalent 1 Agglutinating Antisera

### SAFETY DATA SHEET

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)

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

and Rai

**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 30-Jun-2023

**Revision Summary** Update to CLP 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**

OXDR30163901 Version 1 30-Jun-2023 Page 10 / 10