

SAFETY DATA SHEET

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

Section 1 - Identification

Product Name Para Stain Kit

Product Code MV1284

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 NumbersTel: 1300 735 292
Fax: 1800 067 639

ANZinfo@thermofisher.com

Recommended Use Laboratory chemicals.

Uses advised against

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

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

Flammable liquids Category 2

Health hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 1
Germ Cell Mutagenicity Category 2

Environmental hazards

No hazards identified

Label Elements







AUS-000899A Version 2 14-Jul-2023 Page 1/11

Signal Word Danger

Hazard Statements

H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

H318 - Causes serious eye damage

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

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

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

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

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

P310 - Immediately call a POISON CENTER or doctor

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

This product does not contain any known or suspected endocrine disruptors

Section 3 - Composition and Information on Ingredients

| Component | CAS No | Weight % |
|--------------------------|------------|----------|
| Ethyl alcohol | 64-17-5 | 99 |
| Phenol | 108-95-2 | 4.95 |
| Ferrous ammonium sulfate | 10045-89-3 | 1 |

Section 4 - First Aid Measures

Inhalation Remove to fresh air.

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. Causes eye burns. Causes severe eye damage. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea

AUS-000899A Version 2 14-Jul-2023 Page 2/11

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. Do not flush into surface water or sanitary sewer system.

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

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

AUS-000899A Version 2 14-Jul-2023 Page 3 / 11

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 |
|------------------|-----------------------------|-----------------------------|--------------------------|-----------------------------------|-------------------------------|
| Ethyl alcohol | TWA: 1000 ppm | TWA: 1000 ppm | STEL: 1000 ppm | TWA: 1000 ppm TWA; | 200 ppm TWA MAK; |
| | TWA: 1880 mg/m ³ | TWA: 1880 mg/m ³ | | 1920 mg/m³ TWA | 380 mg/m ³ TWA MAK |
| | | | | WEL - STEL: 3000 ppm | |
| | | | | STEL; 5760 mg/m ³ | |
| | | | | STEL | |
| Phenol | TWA: 1 ppm | TWA: 1 ppm | TWA: 5 ppm | STEL: 4 ppm 15 min | TWA: 2 ppm (8 |
| | TWA: 4 mg/m ³ | TWA: 3.8 mg/m ³ | Skin | STEL: 16 mg/m ³ 15 min | Stunden). AGW - |
| | | STEL: 2 ppm | | TWA: 2 ppm 8 hr | exposure factor 2 |
| | | STEL: 7.7 mg/m ³ | | TWA: 7.8 mg/m ³ 8 hr | TWA: 8 mg/m ³ (8 |
| | | Skin | | Skin | Stunden). AGW - |
| | | | | | exposure factor 2 |
| | | | | | Haut |
| Ferrous ammonium | TWA: 1 mg/m ³ | | TWA: 1 mg/m ³ | STEL: 2 mg/m ³ 15 min | |
| sulfate | _ | | | TWA: 1 mg/m ³ 8 hr | |

Biological limit values

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

| Component | Australia | New Zealand | European Union | United Kingdom | Germany |
|-----------|-----------|-------------------------|----------------|----------------|--------------------------|
| 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 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

| 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.

AUS-000899A Version 2 14-Jul-2023 Page 4/11

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

Method - No information available

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance

Physical State Liquid

No information available

Odor Threshold No data available Not applicable No data available Melting Point/Range **Softening Point** No data available **Boiling Point/Range** Not applicable Not applicable Flash Point

Evaporation Rate No data available Liquid

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

Bulk Density Not applicable Liquid

No information available Water Solubility

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Ethyl alcohol -0.32 Phenol 1.5

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

Explosive Properties Vapors may form explosive mixtures with air

Oxidizing Properties No information available

Other information

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stable under normal conditions. Stability

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

Incompatible Materials None known.

AUS-000899A Version 2 14-Jul-2023 Page 5/11 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;

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

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|--------------------------|-------------------------|-----------------------------|--|
| Ethyl alcohol | LD50 = 7060 mg/kg (Rat) | | 20000 ppm/10H (Rat) |
| Phenol | LD50 = 340 mg/kg (Rat) | LD50 = 630 mg/kg (Rabbit) | LC50 = 316 mg/m ³ (Rat) 4 h |
| Ferrous ammonium sulfate | LD50 = 3250 mg/kg (Rat) | | |

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

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

(e) germ cell mutagenicity; Category 2

(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 Wales | Western Australia | IARC | EU | UK | Germany |
|-----------|-----------|-------------|--------------------|----------------------|------|----|----|---------|
| Phenol | | | | | | | | Cat. 3B |

(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

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

delayed tiredness, nausea and vomiting

Section 12 - Ecological Information

Ecotoxicity effects Contains a substance which is:. Toxic to aquatic organisms. The product contains following

AUS-000899A Version 2 14-Jul-2023 Page 6 / 11

17.5 dimensionless647 dimensionless

| substances which are | hazardous for the envi | ronment. Very toxic to | aquatic organisms. |
|----------------------|------------------------|------------------------|--------------------|
| Freshwater Fish | Water Flea | Freshwater Algae | Microtox |

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|---------------|------------------------|-------------------------|-----------------------|------------------------|
| Ethyl alcohol | Fathead minnow | EC50 = 9268 mg/L/48h | EC50 (72h) = 275 mg/l | Photobacterium |
| · · | (Pimephales promelas) | EC50 = 10800 mg/L/24h | (Chlorella vulgaris) | phosphoreum:EC50 = |
| | LC50 = 14200 mg/l/96h | | | 34634 mg/L/30 min |
| | | | | Photobacterium |
| | | | | phosphoreum:EC50 = |
| | | | | 35470 mg/L/5 min |
| 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 |
| | | | ` | EC50 = 28.8 mg/L 5 min |
| | | | subcapitata) | EC50 = 31.6 mg/L 15 |
| | | | EC50: = 46.42 mg/L, | min |
| | | | 96h | |
| | | | (Pseudokirchneriella | |
| | | | subcapitata) | |
| | | | | |

Persistence and Degradability

Persistence

Degradation in sewage treatment plant Bioaccumulative Potential No information available Persistence is unlikely.

Bioaccumulation is unlikely

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

| | · | |
|---------------|---------|-------------------------------|
| Component | log Pow | Bioconcentration factor (BCF) |
| Ethyl alcohol | -0.32 | No data available |

1.5

Mobility

Endocrine Disruptor Information

Phenol

Persistent Organic Pollutant Ozone Depletion Potential No information available.

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. 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. Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains.

Section 14 - Transport Information

IMDG/IMO

UN-No UN2924
Proper Shipping Name UN2924
Flammable liquid, corrosive, n.o.s.

Proper Shipping Name Technical Shipping Name

(Contains Ethanol and Hydrochloric acid)

Hazard Class

3 8

Subsidiary Hazard Class 8
Packing Group | |

AUS-000899A Version 2 14-Jul-2023 Page 7/11

ADG

UN-No UN2924

Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Contains Ethanol and Hydrochloric acid)

Hazard Class 3
Subsidiary Hazard Class 3, 8
Packing Group ||

| Component | Hazchem Code |
|-------------------|--------------|
| Ethyl alcohol | 2YE |
| 64-17-5 (99) | 2Y |
| Phenol | 3X |
| 108-95-2 (4.95) | 2X |

IATA

UN-No UN2924

Proper Shipping Name Flammable liquid, corrosive, n.o.s.

Technical Shipping Name (Contains Ethanol and Hydrochloric acid)

Hazard Class 3
Subsidiary Hazard Class 8
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 |
|---------------------------------------|--|
| 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 |
| Ferrous ammonium sulfate - 10045-89-3 | Schedule 2 listed |
| | Schedule 4 listed - in injectable preparations for human use |
| | Schedule 5 listed - for the treatment of animals except up to 1% of Iron oxides when present as an excipient;in preparations for injection except in preparations containing <=0.1% of Iron |
| | Schedule 5 listed - for the treatment of animals except up to 1% of Iron oxides when present as an excipient;in other preparations except in liquid or gel preparations containing <=0.1% of Iron, or in animal feeds or feed premixes |
| | Schedule 5 listed - for use as agricultural chemicals except in preparations containing <=4% of Iron |
| | Schedule 6 listed - except up to 1% of Iron oxides when present as an excipient. For the treatment of animals except: when included in Schedule 5, in liquid or gel preparations containing <=0.1% of Iron, |

AUS-000899A Version 2 14-Jul-2023 Page 8 / 11

| or in animal feeds or feed premixes |
|-------------------------------------|

Australian Industrial Chemicals Introduction Scheme (AICIS)

| Component | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information | |
|---------------------------------------|---|------------------------|--|
| Ethyl alcohol - 64-17-5 | Present | - | |
| Phenol - 108-95-2 | Present | - | |
| Ferrous ammonium sulfate - 10045-89-3 | Present | - | |

Australian - Illicit Drug Precursors/Reagents Substance List

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

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

National pollutant inventory

Subject to reporting requirements

| Component | National pollutant inventory |
|-------------------------|-----------------------------------|
| Ethyl alcohol - 64-17-5 | 10 tonne/yr. Threshold category 1 |
| 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 | ENCS | ISHL | IECSC | KECL |
|--------------------------|------|-------|-----------|--------|------|-----|------|-------|-------------|------|-------|----------|
| Ethyl alcohol | Х | Х | 200-578-6 | - | X | Х | - | Х | Х | Х | Х | KE-13217 |
| Phenol | X | X | 203-632-7 | - | X | Х | - | Χ | Х | Х | Х | X |
| Ferrous ammonium sulfate | Х | Х | 233-151-8 | - | Х | Х | - | Х | - | | Х | KE-09802 |

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.

| Г | Component | Basel Convention (Hazardous Waste) | Australian Hazardous Waste Act - Categories | | |
|---|-----------|------------------------------------|---|--|--|
| L | | | of Wastes to Be Controlled | | |

AUS-000899A Version 2 14-Jul-2023 Page 9 / 11

| Ethyl alcohol - 64-17-5 | Annex I - Y42 | Y42 except Halogenated solvents | | |
|-------------------------|---------------|---------------------------------|--|--|
| Phenol - 108-95-2 | Annex I - Y39 | Y39 | | |

| 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 |
|--------------------------|------------|----------------|--|---|--|
| Ethyl alcohol | 64-17-5 | Listed | Not applicable | Not applicable | Not applicable |
| Phenol | 108-95-2 | Listed | Not applicable | Not applicable | Not applicable |
| Ferrous ammonium sulfate | 10045-89-3 | Not applicable | 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 | |
|--------------------------|---|---|---|
| Phenol | - | Use restricted. See item 75. (see link for restriction details) | - |
| Ferrous ammonium sulfate | - | Use restricted. See item 65. (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.

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).

AUS-000899A Version 2 14-Jul-2023 Page 10 / 11

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

AUS-000899A Version 2 14-Jul-2023 Page 11/11