

### 1. IDENTIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Name</b>        | <b>Monopotassium Phosphate</b>   |
| <b>Other Names</b>         | PHOSPHORIC ACID, MONOPOTASSIUM SALT; Potassium Acid Phosphate; Potassium Phosphate, Monobasic    |
| <b>Uses</b>                | Specialty fertilizer, meat-treating compounds, nutrient for antibiotic and yeast production etc. |
| <b>Chemical Family</b>     | No Data Available  |
| <b>Chemical Formula</b>    | KH <sub>2</sub> PO <sub>4</sub>  |
| <b>Chemical Name</b>       | Monopotassium Phosphate  |
| <b>Product Description</b> | No Data Available  |

#### Contact Details of the Supplier of this Safety Data Sheet

| Organisation            | Location   | Telephone       |
|-------------------------|--|-----------------|
| Redox Pty Ltd           | 2 Swettenham Road<br>Minto NSW 2566<br>Australia   | +61-2-97333000  |
| Redox Pty Ltd           | 11 Mayo Road<br>Wiri Auckland 2104<br>New Zealand  | +64-9-2506222   |
| Redox Inc.              | 3960 Paramount Boulevard<br>Suite 107<br>Lakewood CA 90712<br>USA  | +1-424-675-3200 |
| Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7<br>Seksyen 33, Shah Alam Premier Industrial Park<br>40400 Shah Alam<br>Sengalor, Malaysia | +60-3-5614-2111 |

#### Emergency Contact Details

*For emergencies only; DO NOT contact these companies for general product advice.*

| Organisation               | Location     | Telephone                                  |
|----------------------------|--------------|--|
| Poisons Information Centre | Westmead NSW | 1800-251525<br>131126                      |
| Chemcall                   | Australia    | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia     | +64-4-9179888                              |
| Chemcall                   | New Zealand  | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand  | 0800-764766                                |
| CHEMTREC                   | USA & Canada | 1-800-424-9300 CN723420<br>+1-703-527-3887 |

### 2. HAZARD IDENTIFICATION

**Poisons Schedule (Aust)** Not scheduled

#### Globally Harmonised System

**Hazard Classification** NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Signal Word** None

### National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification** NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

|                             |                       |             |  |
|-----------------------------|-----------------------|-------------|--|
| <b>HSNO Classifications</b> | Health Hazards        | <b>6.1D</b> | Substances that are acutely toxic - Harmful            |
|                             |                       | <b>6.4A</b> | Substances that are irritating to the eye              |
|                             | Environmental Hazards | <b>9.3C</b> | Substances that are harmful to terrestrial vertebrates |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

| Chemical Entity         | Formula           | CAS Number | Proportion |
|-------------------------|-------------------|------------|------------|
| Monopotassium Phosphate | No Data Available | 7778-77-0  | 100.0 %    |

## 4. FIRST AID MEASURES

### Description of necessary measures according to routes of exposure

**Swallowed** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of water.

**Eye** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**Skin** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

**Inhaled** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

**Advice to Doctor** No specific antidote, Medical staff must contact Poison Control Centre.

**Medical Conditions Aggravated by Exposure** Persons with impaired kidney function may be more susceptible to the effects of this substance. There have been no medical conditions reported as being aggravated by exposure.  
Chronic: Chronic exposure to this product may cause calcium phosphate deposition in the kidneys. Human industrial experience has shown no significant inhalation hazard nor skin irritation for low-level long-term exposure. effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic products, and any medical conditions generally recognized as being aggravated by exposure.  
Acute Overexposure: Moderate irritant to unwashed eyes and mild irritant to washed eye by animal tests.

## 5. FIRE FIGHTING MEASURES

**Flammability Conditions** Product is a non-flammable solid.

|   |  |
|---|--|
| <b>Extinguishing Media</b>              | Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.   |
| <b>Fire and Explosion Hazard</b>        | Non-explosive under normal conditions.   |
| <b>Hazardous Products of Combustion</b> | Non-combustible solid. Incompatible with Strong oxidizing agents, strong bases, moisture and sources of ignition. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Hazardous Decomposition Products include Oxides of phosphorus, irritating and toxic fumes and gases.   |
| <b>Personal Protective Equipment</b>    | Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.<br>Move fire exposed containers from fire area if it can be done without risk.<br>Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment. |
| <b>Flash Point</b>                      | No Data Available  |
| <b>Lower Explosion Limit</b>            | No Data Available  |
| <b>Upper Explosion Limit</b>            | Not explosive  |
| <b>Auto Ignition Temperature</b>        | No Data Available  |
| <b>Hazchem Code</b>                     | No Data Available  |

## 6. ACCIDENTAL RELEASE MEASURES

|   |   |
|---|---|
| <b>General Response Procedure</b>           | Personnel involved in the clean up should wear full protective clothing as listed in section 8. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways.<br>If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. |
| <b>Clean Up Procedures</b>                  | Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and hold for safe disposal.   |
| <b>Environmental Precautionary Measures</b> | Mono potassium phosphate shall not arrive into the soil or the aquatic environment.   |
| <b>Personal Precautionary Measures</b>      | Avoid contact with the respiratory system, eyes and skin. Use personal protection equipment.  |

## 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling</b>  | Ensure an eye bath and safety shower are available and ready for use.<br>Observe good personal hygiene practices and recommended procedures.<br>Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.  |
| <b>Storage</b>   | Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks.<br>Protect against physical damage. Store away from incompatible materials as listed in section 10. Store protected from moisture. Hygroscopic. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail. |
| <b>Container</b> | Store in original packaging as approved by manufacturer.   |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                             |   |
|-----------------------------|---|
| <b>General</b>              | No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m <sup>3</sup> (for inspirable dust) and 3mg/m <sup>3</sup> (for respirable dust). |
| <b>Exposure Limits</b>      | No Data Available   |
| <b>Biological Limits</b>    | No information available on biological limit values for this product.   |
| <b>Engineering Measures</b> | Use process enclosures, local exhaust ventilation or other engineering control to keep airborne level below recommended exposure limits, if user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.  |

|                                      |   |
|--------------------------------------|---|
| <b>Personal Protection Equipment</b> | RESPIRATOR: Wear a P2 particulate respirator when handling this product (AS1715/1716).<br>EYES: Safety glasses with side shields or chemical goggles (AS1336/1337).<br>HANDS: Wear protective gloves (AS2161).<br>CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210). |
| <b>Work Hygienic Practices</b>       | No eating, drinking or smoking during work.   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |   |
|---|---|
| <b>Physical State</b>   | Solid                                       |
| <b>Appearance</b>   | Solid, granular                             |
| <b>Odour</b>  | Odourless                                   |
| <b>Colour</b>   | White                                       |
| <b>pH</b>   | 4 - 5                                       |
| <b>Vapour Pressure</b>  | 0.01kPa max torr (@ 20 °C)                  |
| <b>Relative Vapour Density</b>  | No Data Available                           |
| <b>Boiling Point</b>  | No Data Available                           |
| <b>Melting Point</b>  | 252.6 °C                                    |
| <b>Freezing Point</b>   | 252.6 °C                                    |
| <b>Solubility</b>   | 25g/100g of water 25°C                      |
| <b>Specific Gravity</b>   | 2.338g/cm <sup>3</sup>                      |
| <b>Flash Point</b>  | No Data Available                           |
| <b>Auto Ignition Temp</b>   | No Data Available                           |
| <b>Evaporation Rate</b>   | No Data Available                           |
| <b>Bulk Density</b>   | No Data Available                           |
| <b>Corrosion Rate</b>   | No Data Available                           |
| <b>Decomposition Temperature</b>                                      | >253 °C                                     |
| <b>Density</b>  | 0.9 - 1.3                                   |
| <b>Specific Heat</b>  | No Data Available                           |
| <b>Molecular Weight</b>   | No Data Available                           |
| <b>Net Propellant Weight</b>  | No Data Available                           |
| <b>Octanol Water Coefficient</b>                                      | No Data Available                           |
| <b>Particle Size</b>  | No Data Available                           |
| <b>Partition Coefficient</b>  | No Data Available                           |
| <b>Saturated Vapour Concentration</b>                                 | No Data Available                           |
| <b>Vapour Temperature</b>   | No Data Available                           |
| <b>Viscosity</b>  | Non-viscous substance (@ No Data Available) |
| <b>Volatile Percent</b>   | No Data Available                           |
| <b>VOC Volume</b>   | No Data Available                           |
| <b>Additional Characteristics</b>                                     | No Data Available                           |
| <b>Potential for Dust Explosion</b>                                   | No Data Available                           |
| <b>Fast or Intensely Burning Characteristics</b>                      | No Data Available                           |
| <b>Flame Propagation or Burning Rate of Solid Materials</b>           | No Data Available                           |
| <b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b> | No Data Available                           |
| <b>Properties That May Initiate or Contribute to Fire Intensity</b>   | No Data Available                           |
| <b>Reactions That Release Gases or Vapours</b>                        | No Data Available                           |

**Release of Invisible Flammable Vapours and Gases** No Data Available

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Product is stable under normal conditions of use, storage and temperature.

**Conditions to Avoid** At temperatures >200°C decomposition to acid sodium pyrophosphate (K<sub>2</sub>H<sub>2</sub>P<sub>2</sub>O<sub>7</sub>) of potassium polyphosphate (KPO<sub>3</sub>)<sub>n</sub>.H<sub>2</sub>O.  
Mono potassium phosphate is water soluble.

**Materials to Avoid** Reactive with acids and alkalis, moisture and sources of ignition.

**Hazardous Decomposition Products** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Hazardous Decomposition Products include Oxides of phosphorus and oxides of potassium irritating and toxic fumes and gases.

**Hazardous Polymerisation** Hazardous Polymerization Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**General Information** Skin Rabbit LD50: >4640mg/Kg Carcinogenicity: Potassium Phosphate, Monobasic - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Eyelrritant** Dust may cause mechanical irritation. Non-irritating to unwashed eyes, non- irritating to washed eyes (rabbit).

**Ingestion** Ingestion of large doses may cause nausea, vomiting, diarrhea. Systemic oral toxicity is extremely rare and has consisted of acidosis and hypocalcaemia tetany. May cause irritation of the digestive tract. Low hazard for usual industrial handling. The toxicological properties of this substance have not been fully investigated.

**Inhalation** May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

**SkinIrritant** May cause skin irritation. Low hazard for usual industrial handling. Human industrial experience has shown no significant skin irritation for low-level long-term exposure.

**Carcinogen Category** No Data Available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 96 HR LC50 > 100 mg/L, non-toxic (rainbow trout, inland silversides and mysid shrimp)

Depending on the concentration, phosphoric components can attribute to the eutrophication of waters. Substance,which contribute to eutrophication:Nitrates

**Persistence/Degradability** No information available on persistence/degradability for this product.

**Mobility** No information available on mobility for this product.  
20% Soluble in water

**Environmental Fate** Inorganic phosphates in contact with the soil, sub-surface or surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or magnesium. The resultant compounds are insoluble in water and become a part of the soil or sediment. The term biodegradability, as such, is not applicable to inorganic compounds.

**Bioaccumulation Potential** No information available on bioaccumulation for this product.

**Environmental Impact** No Data Available

## 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of in accordance with all local, state and federal regulations.  
All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

**Special Precautions for Land Fill** Contact a specialist disposal company or the local waste regulator for advice.

May be disposed of in landfills according to applicable regulations.

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | MONOPOTASSIUM PHOSPHATE                                |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

### Land Transport (Malaysia)

ADR

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | MONOPOTASSIUM PHOSPHATE                                |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

### Land Transport (New Zealand)

NZS5433

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | MONOPOTASSIUM PHOSPHATE                                |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

### Land Transport (United States of America)

US DOT

|                             |                         |
|-----------------------------|-------------------------|
| <b>Proper Shipping Name</b> | MONOPOTASSIUM PHOSPHATE |
| <b>Class</b>                | No Data Available       |
| <b>Subsidiary Risk(s)</b>   | No Data Available       |
|                             | No Data Available       |

|                          |  |
|--------------------------|--|
| <b>UN Number</b>         | No Data Available                                      |
| <b>Hazchem</b>           | No Data Available                                      |
| <b>Pack Group</b>        | No Data Available                                      |
| <b>Special Provision</b> | No Data Available                                      |
| <b>Comments</b>          | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

### Sea Transport

IMDG Code

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | MONOPOTASSIUM PHOSPHATE                               |
| <b>Class</b>                | No Data Available                                     |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                     |
| <b>UN Number</b>            | No Data Available                                     |
| <b>Hazchem</b>              | No Data Available                                     |
| <b>Pack Group</b>           | No Data Available                                     |
| <b>Special Provision</b>    | No Data Available                                     |
| <b>EMS</b>                  | No Data Available                                     |
| <b>Marine Pollutant</b>     | No  |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

### Air Transport

IATA DGR

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | MONOPOTASSIUM PHOSPHATE                               |
| <b>Class</b>                | No Data Available                                     |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                     |
| <b>UN Number</b>            | No Data Available                                     |
| <b>Hazchem</b>              | No Data Available                                     |
| <b>Pack Group</b>           | No Data Available                                     |
| <b>Special Provision</b>    | No Data Available                                     |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for AIR transport. |

### National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

|                                       |   |
|---------------------------------------|---|
| <b>Dangerous Goods Classification</b> | NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|---------------------------------------|---|

## 15. REGULATORY INFORMATION

|                                |                   |
|--------------------------------|-------------------|
| <b>General Information</b>     | No Data Available |
| <b>Poisons Schedule (Aust)</b> | Not scheduled     |

### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

|                      |           |
|----------------------|-----------|
| <b>Approval Code</b> | HSR003211 |
|----------------------|-----------|

### National/Regional Inventories

|   |                |
|---|----------------|
| <b>Australia (AICS)</b>                               | Listed         |
| <b>Canada (DSL)</b>                                   | Not Determined |
| <b>Canada (NDSL)</b>                                  | Not Determined |
| <b>China (IECSC)</b>                                  | Not Determined |
| <b>Europe (EINECS)</b>                                | Listed         |
| <b>Europe (REACH)</b>                                 | Not Determined |
| <b>Japan (ENCS/METI)</b>                              | Listed - 1-452 |
| <b>Korea (KECI)</b>                                   | Listed         |
| <b>Malaysia (EHS Register)</b>                        | Not Determined |
| <b>New Zealand (NZIoC)</b>                            | Listed         |
| <b>Philippines (PICCS)</b>                            | Not Determined |
| <b>Switzerland (Giftliste 1)</b>                      | Not Determined |
| <b>Switzerland (Inventory of Notified Substances)</b> | Not Determined |
| <b>Taiwan (NCSF)</b>                                  | Not Determined |
| <b>USA (TSCA)</b>                                     | Not Determined |

## 16. OTHER INFORMATION

|                              |  |
|------------------------------|--|
| <b>Related Product Codes</b> | HEPOPH2000, MOPOPF1000, MOPOPF2000, MOPOPF3000, MOPOPF3001, MOPOPF3002, MOPOPF3030, MOPOPF4000, MOPOPF7000, MOPOPF8000, MOPOTA0890, MOPOTA0999, MOPOTA1000, MOPOTA1001, MOPOTA1002, MOPOTA1003, MOPOTA1004, MOPOTA1005, MOPOTA1006, MOPOTA1007, MOPOTA1008, MOPOTA1009, MOPOTA1010, MOPOTA1011, MOPOTA1012, MOPOTA1013, MOPOTA1014, MOPOTA1015, MOPOTA1016, MOPOTA1017, MOPOTA1018, MOPOTA1019, MOPOTA1020, MOPOTA1021, MOPOTA1023, MOPOTA1024, MOPOTA1025, MOPOTA1026, MOPOTA1027, MOPOTA1028, MOPOTA1029, MOPOTA1030, MOPOTA1032, MOPOTA1100, MOPOTA1101, MOPOTA1110, MOPOTA1150, MOPOTA1200, MOPOTA1300, MOPOTA1301, MOPOTA1302, MOPOTA1332, MOPOTA1400, MOPOTA1500, MOPOTA1600, MOPOTA1700, MOPOTA1705, MOPOTA1800, MOPOTA1801, MOPOTA1802, MOPOTA1803, MOPOTA1804, MOPOTA1825, MOPOTA2000, MOPOTA2100, MOPOTA2101, MOPOTA2200, MOPOTA2500, MOPOTA2510, MOPOTA2800, MOPOTA2801, MOPOTA2802, MOPOTA2805, MOPOTA2862, MOPOTA3000, MOPOTA3001, MOPOTA3002, MOPOTA3300, MOPOTA3301, MOPOTA3305, MOPOTA3306, MOPOTA3310, MOPOTA3312, MOPOTA3315, MOPOTA3320, MOPOTA3325, MOPOTA3350, MOPOTA3355, MOPOTA3360, MOPOTA3362, MOPOTA3500, MOPOTA4000, MOPOTA4001, MOPOTA4500, MOPOTA4501, MOPOTA5000, MOPOTA5100, MOPOTA5102, MOPOTA5105, MOPOTA5106, MOPOTA5110, MOPOTA5115, MOPOTA5120, MOPOTA5155, MOPOTA5500, MOPOTA6000, MOPOTA6001, MOPOTA6300, MOPOTA6400, MOPOTA6401, MOPOTA6500, MOPOTA6600, MOPOTA6700, MOPOTA6800, MOPOTA6801, MOPOTA6802, MOPOTA6803, MOPOTA6804, MOPOTA6805, MOPOTA6806, MOPOTA6807, MOPOTA6808, MOPOTA7000, MOPOTA7001, MOPOTA7500, MOPOTA7600, MOPOTA8000, MOPOTA8100, MOPOTA8200, MOPOTA9000, MOPOTA9001, MOPOTA9002, MOPOTA9100, MOPOTA9101, MOPOTA9200, MOPOTA9300, MOPOTA9500, MOPOTA9501, MOPOTA9600, MOPOTA9700, MOPOTA9705, MOPOTA9770, MOPOTA9771, MOPOTA9772, MOPOTA9773, MOPOTA9800 |
| <b>Revision</b>              | 2  |
| <b>Revision Date</b>         | 10 May 2014  |
| <b>Reason for Issue</b>      | updated sds  |
| <b>Key/Legend</b>            | < Less Than<br>> Greater Than<br><b>AICS</b> Australian Inventory of Chemical Substances<br><b>atm</b> Atmosphere<br><b>CAS</b> Chemical Abstracts Service (Registry Number)<br><b>cm<sup>2</sup></b> Square Centimetres<br><b>CO<sub>2</sub></b> Carbon Dioxide<br><b>COD</b> Chemical Oxygen Demand  |



**deg C (°C)** Degrees Celcius  
**EPA (New Zealand)** Environmental Protection Authority of New Zealand  
**deg F (°F)** Degrees Farenheit  
**g** Grams  
**g/cm<sup>3</sup>** Grams per Cubic Centimetre  
**g/l** Grams per Litre  
**HSNO** Hazardous Substance and New Organism  
**IDLH** Immediately Dangerous to Life and Health  
**immiscible** Liquids are insoluable in each other.  
**inHg** Inch of Mercury  
**inH<sub>2</sub>O** Inch of Water  
**K** Kelvin  
**kg** Kilogram  
**kg/m<sup>3</sup>** Kilograms per Cubic Metre  
**lb** Pound  
**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.  
**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.  
**ltr** or **L** Litre  
**m<sup>3</sup>** Cubic Metre  
**mbar** Millibar  
**mg** Milligram  
**mg/24H** Milligrams per 24 Hours  
**mg/kg** Milligrams per Kilogram  
**mg/m<sup>3</sup>** Milligrams per Cubic Metre  
**Misc** or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.  
**mm** Millimetre  
**mmH<sub>2</sub>O** Millimetres of Water  
**mPa.s** Millipascals per Second  
**N/A** Not Applicable  
**NIOSH** National Institute for Occupational Safety and Health  
**NOHSC** National Occupational Health and Safety Commission  
**OECD** Organisation for Economic Co-operation and Development  
**Oz** Ounce  
**PEL** Permissible Exposure Limit  
**Pa** Pascal  
**ppb** Parts per Billion  
**ppm** Parts per Million  
**ppm/2h** Parts per Million per 2 Hours  
**ppm/6h** Parts per Million per 6 Hours  
**psi** Pounds per Square Inch  
**R** Rankine  
**RCP** Reciprocal Calculation Procedure  
**STEL** Short Term Exposure Limit  
**TLV** Threshold Limit Value  
**tne** Tonne  
**TWA** Time Weighted Average  
**ug/24H** Micrograms per 24 Hours  
**UN** United Nations  
**wt** Weight