



**SAFETY DATA SHEET**  
**MONOAMMONIUM PHOSPHATE (MAP)**  
**REVISION 4, DATE 25 MAR 20**

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Monoammonium phosphate (MAP)</b>
<b>Other Names</b>	Ammonium dihydrogen orthophosphate; Ammonium dihydrogen phosphate; Monoammonium orthophosphate; Monoammonium phosphate + Zinc Blend
<b>Uses</b>	Used as an ingredient of fertilisers; as a component in dry chemical fire extinguishers; food/feed additive; yeast manufacture.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	Unspecified
<b>Chemical Name</b>	Phosphoric acid, monoammonium salt
<b>Product Description</b>	No Data Available

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

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

### Emergency Contact Details

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

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

## 2. HAZARD IDENTIFICATION



# SAFETY DATA SHEET MONOAMMONIUM PHOSPHATE (MAP) REVISION 4, DATE 25 MAR 20

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)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Monoammonium phosphate	H6NO4P	7722-76-1	<=100 %
Zinc	Zn	7440-66-6	0 - 1 %

## 4. FIRST AID MEASURES

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

Swallowed

IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention. Never give anything by mouth to an unconscious person.

Eye

IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Skin

IF ON SKIN: Remove contaminated clothing and shoes immediately. Flush skin with (warm) running water for several minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

Inhaled

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.

Advice to Doctor

Treat symptomatically.

Medical Conditions Aggravated by Exposure

No information available.

## 5. FIRE FIGHTING MEASURES

General Measures

If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions

Non-combustible; Material does not burn.

Extinguishing Media

If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Use extinguishing media appropriate to surrounding fire

	conditions.
<b>Fire and Explosion Hazard</b>	May evolve toxic fumes/gases when heated to decomposition.
<b>Hazardous Products of Combustion</b>	Fire or heat may produce irritating and/or toxic fumes, including phosphorus oxides, nitrogen oxides and ammonia.
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
<b>Personal Protective Equipment</b>	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
<b>Flash Point</b>	No Data Available
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	No Data Available

## 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	Collect material (sweep or vacuum up) and place in suitable, properly labelled containers for recycling or salvage (if uncontaminated) or disposal (see SECTION 13).
<b>Containment</b>	Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas.
<b>Decontamination</b>	After spill cleanup, wash area preventing runoff from entering drains.
<b>Environmental Precautionary Measures</b>	Prevent entry into drains and waterways. If environmental contamination has occurred, advise local emergency services.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
<b>Personal Precautionary Measures</b>	Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

<b>Handling</b>	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). To avoid thermal decomposition, do not overheat. Avoid contact with incompatible materials (see SECTION 10).
<b>Storage</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use. Avoid exposure to water/moisture. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store away from farm chemicals, e.g. insecticides, fungicides and herbicides.
<b>Container</b>	Keep in the original container. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No value assigned for this specific material by Safe Work Australia. For dusts from solid substances without specific occupational exposure standards: - Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m <sup>3</sup> , measured as inhalable dust. - New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m <sup>3</sup> ; TWA = 3 mg/m <sup>3</sup> (respirable).
<b>Exposure Limits</b>	No Data Available No information available.

**Biological Limits****Engineering Measures**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Personal Protection Equipment**

- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or where an inhalation risk exists. Recommended: Dust mask/particulate (P1) respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or dust-proof goggles.
- Hand protection: Handle with gloves. Recommended: Impervious gloves, e.g. rubber, PVC or neoprene.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Light-weight protective clothing; Safety shoes. Wear coveralls when using in large quantities or where heavy contamination is likely.

**Special Hazards Precautions**

No information available.

**Work Hygienic Practices**

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of work. Wash contaminated clothing and other protective equipment before storage or re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Solid
<b>Appearance</b>	Crystals, granules or powder
<b>Odour</b>	Odourless or slight-acidic
<b>Colour</b>	White or off-white
<b>pH</b>	4.2 - 5.0 (1% solution)
<b>Vapour Pressure</b>	<1 mmHg (@ 20 °C)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	Decomposes before boiling
<b>Melting Point</b>	190 - 197 °C
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Soluble in water (370 g/l) 25°C
<b>Specific Gravity</b>	1.80 - 1.81
<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>	1,100 kg/m <sup>3</sup> (20 °C)
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	>197 °C
<b>Density</b>	1.81 g/cm <sup>3</sup>
<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>	No Data Available
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No information available.

<b>Potential for Dust Explosion</b>	Product does not present an explosion hazard (inorganic substance).
<b>Fast or Intensely Burning Characteristics</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	Non-combustible; Material does not burn.
<b>Reactions That Release Gases or Vapours</b>	May evolve toxic fumes/gases when heated to decomposition, including phosphorus oxides, nitrogen oxides and ammonia.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	Reacts with alkalis releasing ammonia. Reacts with methenamine, causing slow evolution of formaldehyde. May be mildly corrosive to aluminium and steel.
<b>Chemical Stability</b>	Stable under recommended conditions of storage and handling.
<b>Conditions to Avoid</b>	Avoid dust formation. To avoid thermal decomposition, do not overheat. Avoid moisture.
<b>Materials to Avoid</b>	Incompatible/reactive with strong acids, alkalis, oxidising agents; copper and its alloys; methenamine, magnesium, hypochlorites.
<b>Hazardous Decomposition Products</b>	No decomposition if used and stored according to specifications. May evolve toxic fumes/gases when heated to decomposition, including phosphorus oxides, nitrogen oxides and ammonia.
<b>Hazardous Polymerisation</b>	Not expected to occur.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	<ul style="list-style-type: none"> <li>- Acute toxicity: This product is expected to be of low toxicity. May cause diarrhoea, nausea, vomiting, stomach cramps. Based on available data, the classification criteria are not met.</li> <li>- Skin corrosion/irritation: Not classified as a skin irritant. Prolonged or repeated contact may result in mild irritation.</li> <li>- Eye damage/irritation: Not classified as an eye irritant. Contact may result in mild irritation, lacrimation and redness.</li> <li>- Respiratory/skin sensitisation: Not classified as causing skin or respiratory sensitisation.</li> <li>- Germ cell mutagenicity: Not classified as a mutagen.</li> <li>- Carcinogenicity: Not classified as a carcinogen.</li> <li>- Reproductive toxicity: Not classified as a reproductive toxin.</li> <li>- STOT (single exposure): Not classified as causing organ damage from single exposure. However, over exposure may result in irritation of the nose and throat, with coughing.</li> <li>- STOT (repeated exposure): Not classified as causing organ damage from repeated exposure.</li> <li>- Aspiration toxicity: Not classified as causing aspiration.</li> </ul>
<b>Carcinogen Category</b>	None

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<p>Aquatic toxicity;</p> <ul style="list-style-type: none"> <li>- LC50, Freshwater fish (<i>Oncorhynchus mykiss</i>): &gt;85.9 mg/L (96 h) static [OECD Guideline 203].</li> <li>- EC50, Freshwater invertebrates (<i>Daphnia carinata</i>): 1,790 mg/L (72 h) Read-across, single-superphosphate [APHA-1975].</li> <li>- EC50, Freshwater algae (<i>Selenastrum capricornutum</i>): &gt;100 mg/L (72 h) Read-across, ammonium</li> </ul>
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dihydrogenorthophosphate [OECD 201].

Toxicity to microorganisms:

- EC50, Bacteria (Activated sludge, domestic), respiration rate: >100 mg/L (3 h) Read-across, diammonium hydrogenorthophosphate [OECD 209].

<b>Persistence/Degradability</b>	Ready biodegradation tests are not applicable since the substance is inorganic. In aqueous solution, ammonium dihydrogen orthophosphate is completely dissociated into the ammonium ion (NH <sub>4</sub> <sup>+</sup> ) and the phosphate anion (PO <sub>4</sub> <sup>3-</sup> ). Hydrolysis of the substance does not occur, and it is also not susceptible to photodegradation.
<b>Mobility</b>	This substance is highly water soluble and dissociating. Low potential for adsorption to soil (based on substance properties).
<b>Environmental Fate</b>	Product may act as a plant nutrient and cause eutrophication. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
<b>Bioaccumulation Potential</b>	Simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution; Such a substance has a low potential for bioaccumulation.
<b>Environmental Impact</b>	No Data Available

### 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Can be reused without reprocessing if uncontaminated. If contaminated with other materials, dispose of to an approved landfill site and in accordance with local/regional/national regulations.
<b>Special Precautions for Land Fill</b>	No information available.

### 14. TRANSPORT INFORMATION

#### Land Transport (Australia)

ADG Code

<b>Proper Shipping Name</b>	Monoammonium phosphate (MAP)
<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 LAND transport.

#### Land Transport (Malaysia)

ADR Code

<b>Proper Shipping Name</b>	Monoammonium phosphate (MAP)
<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

# SAFETY DATA SHEET MONOAMMONIUM PHOSPHATE (MAP) REVISION 4, DATE 25 MAR 20

Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (New Zealand)

NZS5433

Proper Shipping Name	Monoammonium phosphate (MAP)
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Land Transport (United States of America)

US DOT

Proper Shipping Name	Monoammonium phosphate (MAP)
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

## Sea Transport

IMDG Code

Proper Shipping Name	Monoammonium phosphate (MAP)
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

## Air Transport

IATA DGR

Proper Shipping Name	Monoammonium phosphate (MAP)
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available

# SAFETY DATA SHEET MONOAMMONIUM PHOSPHATE (MAP) REVISION 4, DATE 25 MAR 20

Special Provision	No Data Available
Comments	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)

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)
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## 15. REGULATORY INFORMATION

General Information	AMMONIUM PHOSPHATE is listed in Appendix B of the SUSMP (Low toxicity; Any use).
Poisons Schedule (Aust)	Not Scheduled

## Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Not Hazardous
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## National/Regional Inventories

Australia (AIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	231-764-5
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined



## 16. OTHER INFORMATION

## Related Product Codes

MOAMMB1000, MOAMMB1001, MOAMMB1002, MOAMMB1003, MOAMMB1004, MOAMMB1005, MOAMMB2000, MOAMMF1000, MOAMMF1001, MOAMMF1002, MOAMMF1003, MOAMMF1004, MOAMMF1005, MOAMMF1006, MOAMMF1007, MOAMMF1008, MOAMMF1009, MOAMMF1010, MOAMMF1011, MOAMMF1012, MOAMMF1013, MOAMMF1014, MOAMMF1015, MOAMMF1016, MOAMMF1020, MOAMMF1033, MOAMMF1040, MOAMMF1050, MOAMMF2000, MOAMMF2100, MOAMMF2101, MOAMMF2150, MOAMMF2500, MOAMMF3000, MOAMMF4000, MOAMMF4010, MOAMMO0002, MOAMMO0003, MOAMMO0004, MOAMMO0005, MOAMMO0006, MOAMMO0007, MOAMMO0008, MOAMMO0200, MOAMMO0201, MOAMMO0300, MOAMMO0301, MOAMMO0400, MOAMMO0500, MOAMMO0600, MOAMMO0700, MOAMMO0800, MOAMMO0801, MOAMMO0802, MOAMMO0805, MOAMMO0810, MOAMMO0812, MOAMMO0880, MOAMMO0891, MOAMMO0892, MOAMMO0893, MOAMMO0895, MOAMMO0898, MOAMMO0900, MOAMMO1000, MOAMMO1001, MOAMMO1002, MOAMMO1003, MOAMMO1004, MOAMMO1005, MOAMMO1006, MOAMMO1007, MOAMMO1008, MOAMMO1009, MOAMMO1010, MOAMMO1011, MOAMMO1012, MOAMMO1013, MOAMMO1014, MOAMMO1015, MOAMMO1016, MOAMMO1017, MOAMMO1018, MOAMMO1019, MOAMMO1020, MOAMMO1021, MOAMMO1022, MOAMMO1023, MOAMMO1024, MOAMMO1025, MOAMMO1026, MOAMMO1027, MOAMMO1028, MOAMMO1029, MOAMMO1044, MOAMMO1100, MOAMMO1200, MOAMMO1400, MOAMMO1500, MOAMMO1501, MOAMMO1550, MOAMMO1600, MOAMMO1601, MOAMMO1610, MOAMMO1650, MOAMMO1700, MOAMMO1800, MOAMMO1803, MOAMMO1804, MOAMMO1805, MOAMMO1808, MOAMMO1809, MOAMMO1810, MOAMMO1812, MOAMMO1813, MOAMMO1815, MOAMMO1816, MOAMMO1817, MOAMMO1818, MOAMMO1819, MOAMMO1820, MOAMMO1822, MOAMMO1823, MOAMMO1824, MOAMMO1825, MOAMMO1826, MOAMMO1827, MOAMMO1830, MOAMMO1900, MOAMMO2000, MOAMMO2001, MOAMMO2100, MOAMMO2101, MOAMMO2105, MOAMMO2200, MOAMMO2300, MOAMMO2400, MOAMMO2401, MOAMMO2450, MOAMMO2451, MOAMMO2500, MOAMMO2501, MOAMMO2600, MOAMMO2800, MOAMMO2805, MOAMMO2806, MOAMMO2810, MOAMMO2900, MOAMMO2905, MOAMMO3000, MOAMMO3100, MOAMMO3105, MOAMMO3300, MOAMMO3301, MOAMMO3305, MOAMMO3306, MOAMMO3310, MOAMMO3311, MOAMMO3315, MOAMMO3320, MOAMMO3350, MOAMMO3360, MOAMMO3380, MOAMMO3400, MOAMMO3500, MOAMMO3501, MOAMMO3502, MOAMMO3600, MOAMMO3700, MOAMMO3800, MOAMMO3900, MOAMMO4000, MOAMMO4001, MOAMMO4100, MOAMMO4200, MOAMMO4500, MOAMMO4600, MOAMMO4605, MOAMMO4610, MOAMMO4900, MOAMMO4905, MOAMMO4910, MOAMMO4911, MOAMMO4912, MOAMMO4920, MOAMMO4950, MOAMMO4985, MOAMMO5000, MOAMMO5001, MOAMMO5002, MOAMMO5100, MOAMMO5105, MOAMMO5106, MOAMMO5110, MOAMMO5112, MOAMMO5115, MOAMMO5116, MOAMMO5300, MOAMMO5400, MOAMMO5500, MOAMMO5600, MOAMMO5601, MOAMMO5700, MOAMMO5800, MOAMMO5801, MOAMMO5802, MOAMMO5803, MOAMMO5804, MOAMMO5805, MOAMMO5900, MOAMMO5901, MOAMMO5902, MOAMMO6000, MOAMMO6001, MOAMMO6002, MOAMMO6003, MOAMMO6004, MOAMMO6005, MOAMMO6006, MOAMMO6007, MOAMMO6100, MOAMMO6101, MOAMMO6102, MOAMMO6200, MOAMMO6201, MOAMMO6202, MOAMMO6300, MOAMMO6400, MOAMMO6401, MOAMMO6500, MOAMMO6501, MOAMMO6502, MOAMMO7000, MOAMMO7001, MOAMMO7002, MOAMMO7500, MOAMMO7600, MOAMMO7700, MOAMMO7905, MOAMMO8000, MOAMMO8200, MOAMMO8205, MOAMMO8210, MOAMMO8300, MOAMMO8400, MOAMMO8500, MOAMMO8510, MOAMMO8520, MOAMMO8600, MOAMMO8800, MOAMMO8850, MOAMMO8900, MOAMMO8905, MOAMMO8906, MOAMMO9000, MOAMMO9100, MOAMMO9200, MOAMMO9300, MOAMMO9400, MOAMMO9500, MOAMMO9501, MOAMMO9510, MOAMMO9520, MOAMMO9525, MOAMMO9550, MOAMMO9551, MOAMMO9552, MOAMMO9600, MOAMMO9601, MOAMMO9700, MOAMMO9701, MOAMMO9705, MOAMMO9706, MOAMMO9707, MOAMMO9710, MOAMMO9715, MOAMMO9725, MOAMMO9770, MOAMMO9771, MOAMMO9772, MOAMMO9773, MOAMMO9800, MOAMMO9801, MOAMMO9900

## Revision

4

## Revision Date

25 Mar 2020

## Key/Legend

&lt; Less Than

&gt; Greater Than

**AICS** Australian Inventory of Chemical Substances**atm** Atmosphere**CAS** Chemical Abstracts Service (Registry Number)**cm<sup>2</sup>** Square Centimetres**CO<sub>2</sub>** Carbon Dioxide**COD** 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

**LC<sub>50</sub>** LC stands for lethal concentration. LC<sub>50</sub> 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.

**LD<sub>50</sub>** LD stands for Lethal Dose. LD<sub>50</sub> 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