



# SAFETY DATA SHEET AMMONIUM SULPHATE REVISION 4, DATE 20 JUL 20

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Ammonium Sulphate</b>
<b>Other Names</b>	Ammonium sulfate (2:1); Diammonium sulfate; Diammonium sulphate
<b>Uses</b>	Fertiliser uses; Laboratory use; Food additive; Manufacture of substances.
<b>Chemical Family</b>	Inorganic salt
<b>Chemical Formula</b>	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>
<b>Chemical Name</b>	Sulfuric acid, diammonium salt
<b>Product Description</b>	No Data Available

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

Organisation	Location	Telephone
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.*

Organisation	Location	Telephone
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

**Poisons Schedule (Aust)**

Not Scheduled



## Globally Harmonised System

<b>Hazard Classification</b>	NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
<b>Signal Word</b>	None

## National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road &amp; 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)
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## Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

<b>Hazard Classification</b>	NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations
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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Ammonium sulphate	(NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7783-20-2	<=100 %

## 4. FIRST AID MEASURES

## Description of necessary measures according to routes of exposure

<b>Swallowed</b>	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting unless directed to do so by medical personnel. Get medical advice/attention if large amounts are ingested or if you feel unwell. Never give anything by mouth to an unconscious person.
<b>Eye</b>	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.
<b>Skin</b>	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
<b>Inhaled</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Medical Conditions Aggravated by Exposure</b>	No information available.

## 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
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<b>Flammability Conditions</b>	Non-combustible; Product itself does not burn.
<b>Extinguishing Media</b>	If material is involved in a fire, use dry chemical, Carbon dioxide (CO <sub>2</sub> ), foam or water spray for extinction. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Fire and Explosion Hazard</b>	Flammable ammonia gas may be released in a fire.
<b>Hazardous Products of Combustion</b>	Fire may produce irritating and/or toxic gases, including Ammonia, Nitrogen oxides (NO <sub>x</sub> ), Sulphur oxides (SO <sub>x</sub> ).
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may cause pollution.
<b>Personal Protective Equipment</b>	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only 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>	Sweep/shovel up and place it into suitable containers for later disposal (see SECTION 13). *Vacuuming or wet sweeping may be used to avoid dust dispersal.
<b>Containment</b>	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.
<b>Decontamination</b>	Rinse away residues with water.
<b>Environmental Precautionary Measures</b>	Prevent entry into drains and waterways.
<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. Use personal protective equipment as required (see SECTION 8).
<b>Storage</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Protect against physical damage. Protect against moisture. Keep away from incompatible materials (see SECTION 10).
<b>Container</b>	Keep in the original container. *Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No specific exposure standards are available for this product. 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> (total); TWA = 3 mg/m <sup>3</sup> (respirable). - OSHA PEL (Particulates not otherwise regulated): TWA = 15 mg/m <sup>3</sup> (total); TWA = 5 mg/m <sup>3</sup> (respirable).
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<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available.
<b>Engineering Measures</b>	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.
<b>Personal Protection Equipment</b>	<p>- Respiratory protection: In case of inadequate ventilation or with high concentrations, wear respiratory protection. Recommended: Dust mask/particulate respirator. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. <b>WARNING:</b> Air-purifying respirators do not protect workers in oxygen deficient atmospheres. Use respirators and components tested and approved under appropriate government standards (refer to AS/NZS 1715 &amp; 1716).</p> <p>- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields. Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Use equipment for eye protection tested and approved under appropriate government standards.</p> <p>- Hand protection: Handle with gloves. Recommended: Wear impervious gloves.</p> <p>- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Wear impervious protective clothing, incl. boots, lab coat, apron or coveralls, as appropriate. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance(s) at the specific workplace.</p>
<b>Special Hazards Precautions</b>	No information available.
<b>Work Hygienic Practices</b>	Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid
<b>Appearance</b>	Powder, flake, crystalline, granular
<b>Odour</b>	Odourless
<b>Colour</b>	White
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	No Data Available
<b>Melting Point</b>	>280 °C (decomposes)
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Soluble in water
<b>Specific Gravity</b>	No Data Available
<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>	No Data Available
<b>Density</b>	1.77 g/cm <sup>3</sup>
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	132.14 g/mol
<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

Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	No information available.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Non-combustible; Product itself does not burn.
Reactions That Release Gases or Vapours	Fire may produce irritating and/or toxic gases, including Ammonia, Nitrogen oxides (NOx), Sulphur oxides (SOx).
Release of Invisible Flammable Vapours and Gases	Flammable ammonia gas may be released in a fire.

## 10. STABILITY AND REACTIVITY

General Information	No information available.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Avoid dust formation.
Materials to Avoid	Incompatible/reactive with strong bases, strong oxidising agents.
Hazardous Decomposition Products	Fire or heat will produce irritating and/or toxic fumes, including Ammonia, Nitrogen oxides (NOx), Sulphur oxides (SOx).
Hazardous Polymerisation	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

General Information	Information on possible routes of exposure: <ul style="list-style-type: none"><li>- Ingestion: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhoea. It presents little toxicity unless large amounts are ingested, in which case, vomiting and diarrhoea are likely.</li><li>- Eye contact: May cause eye irritation, redness, and pain.</li><li>- Skin contact: May cause skin irritation. Symptoms include redness, itching, and pain.</li><li>- Inhalation: May cause irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.</li></ul> Chronic effects: No information available.
Acute	
Ingestion	Acute toxicity (Oral): <ul style="list-style-type: none"><li>- LD50, Rat: 4,250 mg/kg [Supplier's SDS].</li></ul>
Carcinogen Category	None

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No information available.
<b>Persistence/Degradability</b>	Due to the inorganic nature of the substance standard biodegradation testing systems are not applicable. In aqueous solution, ammonium sulfate is completely dissociated into the ammonium ion (NH <sub>4</sub> <sup>+</sup> ) and the sulfate anion (SO <sub>4</sub> <sup>2-</sup> ). Hydrolysis of ammonium sulfate does not occur.
<b>Mobility</b>	No information available.
<b>Environmental Fate</b>	Prevent entry into drains and waterways.
<b>Bioaccumulation Potential</b>	Based on the high water solubility and the ionic nature, ammonium sulfate is not expected to adsorb or bioaccumulate to a significant extent.
<b>Environmental Impact</b>	No Data Available

### 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Dispose of contents/container in accordance with local/regional/national regulations.
<b>Special Precautions for Land Fill</b>	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

### 14. TRANSPORT INFORMATION

#### Land Transport (Australia)

ADG Code

<b>Proper Shipping Name</b>	Ammonium Sulphate
<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 Code

<b>Proper Shipping Name</b>	Ammonium Sulphate
<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

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Proper Shipping Name	Ammonium Sulphate
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	Ammonium Sulphate
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	Ammonium Sulphate
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	Ammonium Sulphate
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
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)

**15. REGULATORY INFORMATION****General Information**

No Data Available

**Poisons Schedule (Aust)**

Not Scheduled

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

**Approval Code**

Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020 HSR002503  
\*HSR002770 (Revoked)

**National/Regional Inventories****Australia (AIIIC)**

Listed

**Canada (DSL)**

Not Determined

**Canada (NDSL)**

Not Determined

**China (IECSC)**

Not Determined

**Europe (EINECS)**

Not Determined

**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**

AMSULB0005, AMSULB0017, AMSULB0400, AMSULB0500, AMSULB0600, AMSULB1000, AMSULB1001, AMSULB1002, AMSULB1003, AMSULB1004, AMSULB1800, AMSULB2020, AMSULB3100, AMSULB3101, AMSULB4500, AMSULB4501, AMSULB7300, AMSULB8000, AMSULB9000, AMSULG0001, AMSULG0003, AMSULG0005, AMSULG0007, AMSULG0010,



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AMSULG0015, AMSULG0016, AMSULG0017, AMSULG0018, AMSULG0020, AMSULG0030, AMSULG0050, AMSULG0098, AMSULG0400, AMSULG0600, AMSULG0700, AMSULG0701, AMSULG0702, AMSULG0720, AMSULG0721, AMSULG1000, AMSULG1001, AMSULG1002, AMSULG1003, AMSULG1004, AMSULG1005, AMSULG1017, AMSULG1020, AMSULG1023, AMSULG1042, AMSULG1044, AMSULG1046, AMSULG1062, AMSULG2010, AMSULG2020, AMSULG2021, AMSULG2022, AMSULG2600, AMSULG2605, AMSULG2800, AMSULG3200, AMSULG3300, AMSULG3400, AMSULG3405, AMSULG3600, AMSULG5300, AMSULG5400, AMSULG6000, AMSULG6001, AMSULG6015, AMSULG9000, AMSULP0001, AMSULP0003, AMSULP0005, AMSULP0007, AMSULP0008, AMSULP0010, AMSULP0011, AMSULP0012, AMSULP0013, AMSULP0015, AMSULP0016, AMSULP0020, AMSULP0023, AMSULP0031, AMSULP0032, AMSULP0042, AMSULP0050, AMSULP0071, AMSULP0075, AMSULP0076, AMSULP0085, AMSULP0087, AMSULP0088, AMSULP0090, AMSULP0093, AMSULP0094, AMSULP0095, AMSULP0096, AMSULP0098, AMSULP0099, AMSULP0142, AMSULP0400, AMSULP0500, AMSULP0590, AMSULP0595, AMSULP0599, AMSULP0600, AMSULP0601, AMSULP0604, AMSULP0605, AMSULP0606, AMSULP0607, AMSULP0608, AMSULP0700, AMSULP0800, AMSULP0900, AMSULP0901, AMSULP1000, AMSULP1001, AMSULP1002, AMSULP1003, AMSULP1004, AMSULP1005, AMSULP1006, AMSULP1007, AMSULP1008, AMSULP1009, AMSULP1010, AMSULP1011, AMSULP1013, AMSULP1014, AMSULP1015, AMSULP1016, AMSULP1017, AMSULP1018, AMSULP1019, AMSULP1020, AMSULP1021, AMSULP1022, AMSULP1023, AMSULP1024, AMSULP1025, AMSULP1026, AMSULP1027, AMSULP1028, AMSULP1029, AMSULP1030, AMSULP1031, AMSULP1032, AMSULP1033, AMSULP1034, AMSULP1035, AMSULP1036, AMSULP1037, AMSULP1038, AMSULP1039, AMSULP1040, AMSULP1041, AMSULP1042, AMSULP1043, AMSULP1044, AMSULP1045, AMSULP1046, AMSULP1047, AMSULP1048, AMSULP1049, AMSULP1050, AMSULP1051, AMSULP1052, AMSULP1053, AMSULP1054, AMSULP1055, AMSULP1060, AMSULP1062, AMSULP1075, AMSULP1095, AMSULP1099, AMSULP1100, AMSULP1101, AMSULP1102, AMSULP1103, AMSULP1104, AMSULP1105, AMSULP1107, AMSULP1109, AMSULP1110, AMSULP1111, AMSULP1113, AMSULP1114, AMSULP1115, AMSULP1117, AMSULP1118, AMSULP1119, AMSULP1120, AMSULP1124, AMSULP1125, AMSULP1126, AMSULP1127, AMSULP1128, AMSULP1129, AMSULP1132, AMSULP1140, AMSULP1142, AMSULP1144, AMSULP1146, AMSULP1147, AMSULP1148, AMSULP1149, AMSULP1150, AMSULP1151, AMSULP1153, AMSULP1155, AMSULP1156, AMSULP1159, AMSULP1169, AMSULP1170, AMSULP1200, AMSULP1201, AMSULP1250, AMSULP1253, AMSULP1256, AMSULP1300, AMSULP1301, AMSULP1400, AMSULP1401, AMSULP1500, AMSULP1600, AMSULP1601, AMSULP1700, AMSULP1701, AMSULP1800, AMSULP1801, AMSULP1802, AMSULP1803, AMSULP1804, AMSULP1805, AMSULP1806, AMSULP1807, AMSULP1808, AMSULP1809, AMSULP1810, AMSULP1811, AMSULP1812, AMSULP1813, AMSULP1814, AMSULP1815, AMSULP1816, AMSULP1817, AMSULP1818, AMSULP1819, AMSULP1820, AMSULP1830, AMSULP1900, AMSULP2000, AMSULP2001, AMSULP2005, AMSULP2010, AMSULP2011, AMSULP2012, AMSULP2013, AMSULP2015, AMSULP2018, AMSULP2019, AMSULP2020, AMSULP2021, AMSULP2022, AMSULP2024, AMSULP2025, AMSULP2026, AMSULP2030, AMSULP2035, AMSULP2100, AMSULP2101, AMSULP2200, AMSULP2201, AMSULP2300, AMSULP2400, AMSULP2500, AMSULP2501, AMSULP2600, AMSULP2601, AMSULP2602, AMSULP2700, AMSULP2701, AMSULP2702, AMSULP2800, AMSULP2801, AMSULP2802, AMSULP2900, AMSULP3000, AMSULP3001, AMSULP3002, AMSULP3003, AMSULP3004, AMSULP3100, AMSULP3101, AMSULP3200, AMSULP3300, AMSULP3400, AMSULP3405, AMSULP3500, AMSULP3501, AMSULP3504, AMSULP3505, AMSULP3506, AMSULP3507, AMSULP3508, AMSULP3509, AMSULP3510, AMSULP3515, AMSULP3517, AMSULP3525, AMSULP3900, AMSULP4000, AMSULP4500, AMSULP4501, AMSULP4600, AMSULP4700, AMSULP4800, AMSULP5000, AMSULP5100, AMSULP5200, AMSULP5300, AMSULP5400, AMSULP6000, AMSULP6001, AMSULP6100, AMSULP6300, AMSULP6500, AMSULP6600, AMSULP6800, AMSULP6900, AMSULP7000, AMSULP7200, AMSULP7300, AMSULP7400, AMSULP7500, AMSULP7501, AMSULP7505, AMSULP7600, AMSULP7700, AMSULP7701, AMSULP7800, AMSULP8000, AMSULP8001, AMSULP8100, AMSULP8500, AMSULP8600, AMSULP8700, AMSULP9000, AMSULP9010, AMSULP9500, AMSULP9501, AMSULP9502, AMSULP9503, AMSULP9600, AMSULP9700, AMSULP9800, AMSULP9900

### Revision

4

### Revision Date

20 Jul 2020

### Key/Legend

< Less Than

> 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**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