

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Urea</b>
<b>Other Names</b>	Carbamide
<b>Uses</b>	Use in the pharmaceutical, cosmetic and food industry. As an ingredient for nutrient solutions in biochemistry. As Food additive E 927 b (Carbamid).
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	CH <sub>4</sub> N <sub>2</sub> O
<b>Chemical Name</b>	Urea
<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 Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty 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>
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766

## 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

### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015



<b>HSNO Classifications</b>	Health Hazards	<b>6.3B</b>	Substances that are mildly irritating to the skin
		<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
Urea	No Data Available	57-13-6	<=100.0 %

### 4. FIRST AID MEASURES

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

<b>Swallowed</b>	Rinse mouth and then drink plenty of water. Do NOT induce vomiting. Seek medical attention.
<b>Eye</b>	Wash affected eyes for at least 15 minutes under running water with eyelids held open. It is a sensible precaution to seek medical advice.
<b>Skin</b>	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation occurs, seek medical attention.
<b>Inhaled</b>	Keep patient calm, remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of patient. Symptoms: No significant symptoms are expected due to the non-classification of the product.
<b>Medical Conditions Aggravated by Exposure</b>	No information available on medical conditions aggravated by exposure to this product.

### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Flammability Conditions</b>	Product is a non-flammable solid.
<b>Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Suitable extinguishing media: Water, Carbon dioxide (CO <sub>2</sub> ), Foam, Dry powder Unsuitable extinguishing media: High volume water jet
<b>Fire and Explosion Hazard</b>	The product itself does not burn.
<b>Hazardous Products of Combustion</b>	May evolve toxic gases (carbon/ nitrogen oxides, ammonia, hydrocarbons) when heated to decomposition.
<b>Special Fire Fighting Instructions</b>	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
<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).
<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>	>133 °C
<b>Hazchem Code</b>	No Data Available



**6. ACCIDENTAL RELEASE MEASURES**

<b>General Response Procedure</b>	Avoid accidents, clean up immediately. Slippery when spilt. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment.
<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 dispose of promptly.
<b>Containment</b>	Stop leak if safe to do so. Isolate the danger area.
<b>Environmental Precautionary Measures</b>	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.
<b>Evacuation Criteria</b>	Evacuate all unnecessary personnel.
<b>Personal Precautionary Measures</b>	Personnel involved in the clean up should wear full protective clothing as listed in section 8.

**7. HANDLING AND STORAGE**

<b>Handling</b>	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. 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. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep in closed storage rooms or in a room protected from atmospheric influences. Resistant and impermeable floor surface. The product can possibly indurate during long storage periods. 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>	<p>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).</p> <p>NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.</p> <p>These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p> <p>The following has also been provided by the supplier:</p> <p>DNEL - Workers:  dermal, acute, short term, systemic effects - 580 mg/kg  dermal, long term, systemic effects - 580 mg/kg  inhalative, acute, short term, systemic effects - 292 mg/m<sup>3</sup>  inhalative, long term, systemic effects - 292 mg/m<sup>3</sup></p> <p>DNEL - Consumers:  dermal, acute, short term, systemic effects - 580 mg/kg  dermal, long term, systemic effects - 580 mg/kg  inhalative, acute, short term, systemic effects - 125 mg/m<sup>3</sup>  inhalative, long term, systemic effects - 125 mg/m<sup>3</sup>  oral, acute, short term - 42 mg/kg  oral, long term, repeated exposure - 42 mg/kg</p> <p>PNEC - aquatic:  aquatic, freshwater - 0,047 mg/l</p>
<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>	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>	RESPIRATOR: Not required (AS1715/1716). EYES: Safety glasses with side shields (AS1336/1337). HANDS: Chemical resistant protective gloves: butyl rubber (butyl) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness polyvinylchloride (PVC) - 0.7 mm coating thickness (AS2161). CLOTHING: No special protective equipment required. Wash hands before breaks and at the end of workday (AS3765/2210).
<b>Work Hygienic Practices</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid
<b>Appearance</b>	Solid, Prills, Crystalline
<b>Odour</b>	Odourless
<b>Colour</b>	White
<b>pH</b>	9.1 10% Solution @ 20 deg C
<b>Vapour Pressure</b>	0.00002 hPa (@ No Data Available)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	Decomposition beginning at melting point
<b>Melting Point</b>	133 °C
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	1050 g/L 20°C
<b>Specific Gravity</b>	No Data Available
<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temp</b>	>133 °C
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	700 - 780 kg/m <sup>3</sup>
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	No Data Available
<b>Density</b>	No Data Available
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	60.06 g/mol
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	log Pow: -1.56 - -1.59
<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>	Surface tension: Based on chemical structure, surface activity is not to be expected. Fire promoting properties: not fire-propagating pKA: 0.1 (21 deg C)
<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
<b>Release of Invisible Flammable Vapours and Gases</b>	No Data Available

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	Corrosion to metals: Corrosive effect on: non-ferrous metals magnesium aluminum
<b>Chemical Stability</b>	Product is stable under normal conditions of use, storage and temperature.
<b>Conditions to Avoid</b>	Avoid uncontrolled heating. Avoid excessive temperatures (70 deg C).
<b>Materials to Avoid</b>	Violently with nitrites. With strong oxidising agents. Incompatible with oxidising agents (e.g. hypochlorites).
<b>Hazardous Decomposition Products</b>	May evolve toxic gases (ammonia, carbon/ nitrogen oxides, hydrocarbons) when heated to decomposition.
<b>Hazardous Polymerisation</b>	Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	LD50 (ingestion) 8471 mg/kg (rat) LD50 (intraperitoneal) > 5000 mg/kg (rat) LD50 (intravenous) 4600 mg/kg (mouse) LD50 (subcutaneous) 8200 mg/kg (rat) LDLo (intraperitoneal) 6608 mg/kg (mouse) LDLo (intravenous) 4800 mg/kg (rabbit) LDLo (subcutaneous) 3000 mg/kg (rabbit)
<b>Eyelrritant</b>	Irritant. Contact may result in irritation, lacrimation, pain and redness.
<b>Inhalation</b>	Low irritant. Over exposure may result in irritation of the nose and throat, with coughing.
<b>SkinIrritant</b>	Irritant. Contact may result in irritation, redness, pain and rash.
<b>Ingestion</b>	Low toxicity. Ingestion may result in gastrointestinal irritation, nausea and vomiting. Ingestion of large quantities may result in dizziness, drowsiness, excessive urine, weakness and confusion.
<b>Carcinogen Category</b>	No Data Available

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxicity to fish: Dose LC50: > 6810 mg/l Species: Leuciscus idus (Golden orfe) Exposure time: 96 h  Dose EC50: > 10000 mg/l Species: Daphnia magna (Water flea) Exposure time: 24 h  Toxicity to algae: Species: Scenedesmus quadricauda (Green algae) Exposure time: 192 h Dose: > 10000 mg/l
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Assessment of aquatic toxicity:  
There is a high probability that the product is not acutely harmful to aquatic organisms.

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:  
LC50 > 6,810 mg/l, *Leuciscus idus* (DIN 38412 Part 15)

Aquatic invertebrates:  
LC50 (48 h) > 10,000 mg/l, *Daphnia magna*  
Literature data.

Aquatic plants:  
(8 d) > 10,000 mg/l, *Scenedesmus quadricauda*  
Literature data.

Microorganisms/Effect on activated sludge:  
(16 h) > 10,000 mg/l, *Pseudomonas putida*  
Literature data. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Chronic toxicity to fish:  
Study does not need to be conducted.

Chronic toxicity to aquatic invertebrates:  
Study not necessary due to exposure considerations.

Soil living organisms:  
other soil dwelling worm  
Literature data.

Other terrestrial non-mammals:  
Study scientifically not justified.

**Persistence/Degradability**

Assessment biodegradation and elimination (H<sub>2</sub>O):  
Readily biodegradable (according to OECD criteria). The product has not been tested. The statement has been derived from products of a similar structure or composition.

Elimination information:  
96 % DOC reduction (16 d) (OECD 302B; ISO 9888; 88/302/EEC, part C) Biodegradable.

**Mobility**

Assessment transport between environmental compartments:  
Adsorption to solid soil phase is not expected.

**Environmental Fate**

Do NOT let product reach waterways, drains and sewers.

Assessment of stability in water:  
According to structural properties, hydrolysis is not expected/probable.

**Bioaccumulation Potential**

Does not bioaccumulate. This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

**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. Test for use in agriculture.

Waste from residues:

In accordance with the waste recycling/disposal regulations, has to be taken to an approved waste disposal facility. The classification of the waste has to be made according to its source in accordance with the European waste code regulations.

Contaminated packaging:

Disposal according to the regulations, contaminated packaging has to be treated in the same way as the substance itself. Packaging should be completely emptied, and then taken to an approved recycler after appropriate cleaning.



**14. TRANSPORT INFORMATION****Land Transport (New Zealand)**

NZS5433

<b>Proper Shipping Name</b>	UREA
<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

**Sea Transport**

IMDG Code

<b>Proper Shipping Name</b>	UREA
<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

**Air Transport**

IATA DGR

<b>Proper Shipping Name</b>	UREA
<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

**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>	HSR002808
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**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>	Not Determined
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ENCS/METI)</b>	Not Determined
<b>Korea (KECI)</b>	Not Determined
<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NZIoC)</b>	Not Determined
<b>Philippines (PICCS)</b>	Not Determined
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Not Determined
<b>USA (TSCA)</b>	Not Determined

**16. OTHER INFORMATION**

**Related Product Codes**

UREAAB1000, UREAAB1002, UREAAB1003, UREAAB1004, UREAAB1005, UREAAB1006, UREAAB1007, UREAAB1008, UREAAB1009, UREAAB1010, UREAAB1011, UREAAB1012, UREAAB1013, UREAAB1014, UREAAB1015, UREAAB1016, UREAAB1017, UREAAB1018, UREAAB1019, UREAAB1020, UREAAB1021, UREAAB1022, UREAAB1023, UREAAB1024, UREAAB1025, UREAAB1026, UREAAB1027, UREAAB1028, UREAAB1030, UREAAB2000, UREAAB2100, UREAAB3000, UREAAG1000, UREAAG1001, UREAAG1002, UREAAG1003, UREAAG1004, UREAAG1005, UREAAG1006, UREAAG1007, UREAAG1008, UREAAG1009, UREAAG1010, UREAAG1011, UREAAG1012, UREAAG1013, UREAAG1014, UREAAG1015, UREAAG1016, UREAAG1017, UREAAG1018, UREAAG1019, UREAAG1020, UREAAG1021, UREAAG1022, UREAAG1023, UREAAG1024, UREAAG1025, UREAAG1026, UREAAG1027, UREAAG1028, UREAAG1029, UREAAG1030, UREAAG1031, UREAAG1032, UREAAG1033, UREAAG1034, UREAAG1035, UREAAG1036, UREAAG1037, UREAAG1038, UREAAG1039, UREAAG1040, UREAAG1041, UREAAG1042, UREAAG1043, UREAAG1044, UREAAG1045, UREAAG1046, UREAAG1047, UREAAG1048, UREAAG1049, UREAAG1050, UREAAG1051, UREAAG1052, UREAAG1053, UREAAG1054, UREAAG1055, UREAAG1056, UREAAG1057, UREAAG1058, UREAAG1059, UREAAG1060, UREAAG1061, UREAAG1062, UREAAG1063, UREAAG1064, UREAAG1065, UREAAG1066, UREAAG1067, UREAAG1068, UREAAG1069, UREAAG1070, UREAAG1071, UREAAG1072, UREAAG1073, UREAAG1074, UREAAG1075, UREAAG1076, UREAAG1077, UREAAG1078, UREAAG1079, UREAAG1080, UREAAG1081, UREAAG1082, UREAAG1083, UREAAG1084, UREAAG1085, UREAAG1086, UREAAG1087, UREAAG1100, UREAAG1150, UREAAG1160, UREAAG1200, UREAAG1201, UREAAG1202, UREAAG1203, UREAAG1300, UREAAG1400, UREAAG1405, UREAAG1410, UREAAG1415, UREAAG1420, UREAAG1500, UREAAG1501, UREAAG1505, UREAAG1510, UREAAG1515, UREAAG1600, UREAAG1700, UREAAG1701, UREAAG1800, UREAAG1801, UREAAG1803, UREAAG1804, UREAAG1805, UREAAG1806, UREAAG1807, UREAAG1808, UREAAG1809, UREAAG1810, UREAAG1811, UREAAG1812, UREAAG1813, UREAAG1814, UREAAG1815, UREAAG1816, UREAAG1826, UREAAG1827, UREAAG1828, UREAAG1829, UREAAG1830, UREAAG1832, UREAAG1834, UREAAG1835, UREAAG1836, UREAAG1838, UREAAG1839, UREAAG1852, UREAAG1854, UREAAG1900, UREAAG2000, UREAAG2001, UREAAG2002, UREAAG2003, UREAAG2100, UREAAG2101, UREAAG2200, UREAAG2300, UREAAG2400, UREAAG2401, UREAAG2500, UREAAG2501, UREAAG2502, UREAAG2503, UREAAG2600, UREAAG2601, UREAAG2605, UREAAG2610, UREAAG2700, UREAAG2705, UREAAG2800, UREAAG2900, UREAAG3000, UREAAG3001, UREAAG3002, UREAAG3003, UREAAG3100, UREAAG3200, UREAAG3205, UREAAG3210, UREAAG3300, UREAAG3305, UREAAG3310, UREAAG3400, UREAAG3500, UREAAG3501, UREAAG3600, UREAAG3601, UREAAG3602, UREAAG3700, UREAAG3701, UREAAG3800, UREAAG3801, UREAAG3802, UREAAG3900, UREAAG3901,





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**Revision**

3

**Revision Date**

11 Nov 2014

**Reason for Issue**

Updated SDS

**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

