

## 1. IDENTIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Name</b>        | <b>Sodium Carboxymethyl Cellulose</b>  |
| <b>Other Names</b>         | Carboxymethylcellulose, sodium salt; CELLULOSE GUM; Cellulose, carboxymethyl ether, sodium salt  |
| <b>Uses</b>                | Detergents; soaps; food products (dietetic foods and ice cream) where it acts as a water binder, thickener, suspending agent, and emulsion stabiliser; textile manufacturing (sizing); coating paper and paper board to lower porosity drilling muds; emulsion paints; protective colloid; pharmaceuticals; cosmetics. |
| <b>Chemical Family</b>     | No Data Available  |
| <b>Chemical Formula</b>    | C <sub>2</sub> H <sub>4</sub> O <sub>3</sub> .xNa.x  |
| <b>Chemical Name</b>       | Sodium Carboxymethyl Cellulose   |
| <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

**HSNO Classifications** Environmental Hazards **9.1C** Substances that are harmful in the aquatic environment

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

| Chemical Entity         | Formula           | CAS Number | Proportion |
|-------------------------|-------------------|------------|------------|
| Carboxymethyl cellulose | No Data Available | 9004-32-4  | >=72 %     |
| Sodium chloride         | No Data Available | 7647-14-5  | <=15 %     |
| Sodium glycolate        | No Data Available | 2836-32-0  | <=14 %     |
| Moisture (water)        | No Data Available | 7732-18-5  | <=8 %      |

## 4. FIRST AID MEASURES

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

|  |   |
|--|---|
| <b>Swallowed</b>                                 | Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms develop, seek medical attention.   |
| <b>Eye</b>                                       | Immediately flush eyes with plenty of water for 15 minutes, holding eyelids open. If irritation occurs, seek medical attention.                                     |
| <b>Skin</b>                                      | Remove contaminated clothing. Wash affected area with plenty of water. If irritation persists, seek medical attention. Wash heavily contaminated clothing.          |
| <b>Inhaled</b>                                   | Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if needed. |
| <b>Advice to Doctor</b>                          | Treat symptomatically based on judgement of doctor and individual reactions of patient.   |
| <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. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment. |
| <b>Flammability Conditions</b> | Combustible solid<br>Ignition Temperature: 250 deg.C  |

|   |  |
|---|--|
| <b>Extinguishing Media</b>                | In case of fire, appropriate extinguishing media include water spray, foam, dry chemical and carbon dioxide.   |
| <b>Fire and Explosion Hazard</b>          | May form flammable dust clouds in air.   |
| <b>Hazardous Products of Combustion</b>   | This product may generate carbon monoxide, carbon dioxide.   |
| <b>Special Fire Fighting Instructions</b> | Surfaces covered with this product can become extremely slippery upon application of water.  |
| <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>          | No Data Available  |
| <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>                  | In case of spill, do not blow material. Use vacuum equipment designed specifically for handling combustible dusts. The use of water is not recommended unless the spilled material is already wet. Wet material on a walking surface will be extremely slippery. Spills should be thoroughly flushed with water until non- slippery. |
| <b>Containment</b>                          | Stop leak if safe to do so. Isolate the danger area.   |
| <b>Decontamination</b>                      | The use of water is not recommended unless the spilled material is already wet. Wet material on a walking surface will be extremely slippery. Spills should be thoroughly flushed with water until non- slippery.  |
| <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. Avoid creating dust cloud in handling transfer and clean up.                                |
| <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. Protect from heat, sparks and flames. 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. 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</p> |
|----------------|---|

dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

|                                      |  |
|--------------------------------------|--|
| <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. Adequate ventilation should be provided so that exposure limits are not exceeded. |
| <b>Personal Protection Equipment</b> | RESPIRATOR: Use approved respiratory protection equipment when airborne exposure limits are exceeded (AS1715/1716).<br>EYES: Wear safety goggles (AS1336/1337).<br>HANDS: Wear protective gloves (AS2161).<br>CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).  |
| <b>Special Hazards Precautions</b>   | May form flammable dust clouds in air - ensure adequate ventilation; avoid generating dust; keep containers closed when not in use; check regularly for spills/leaks; keep away from heat, sparks, open flames, ignition sources.  |
| <b>Work Hygienic Practices</b>       | Avoid contact with eyes and skin and breathing in dust. Always wash hands before smoking, eating, drinking or using the toilet. 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>                     | Powder                                 |
| <b>Odour</b>                          | Free from objectionable odours         |
| <b>Colour</b>                         | White                                  |
| <b>pH</b>                             | 8.5 - 12 1% solution @ 28 deg.C        |
| <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>                  | No Data Available                      |
| <b>Freezing Point</b>                 | No Data Available                      |
| <b>Solubility</b>                     | Soluble                                |
| <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>                        | No Data Available                      |
| <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>                      | 20 - 120 (@ 28 °C)                     |
| <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>   | May form flammable dust clouds in air. |

|   |                           |
|---|---------------------------|
| <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>   | No information available. |
| <b>Reactions That Release Gases or Vapours</b>                        | No information available. |
| <b>Release of Invisible Flammable Vapours and Gases</b>               | No information available. |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>Chemical Stability</b>               | Product is stable under normal conditions of use, storage and temperature. |
| <b>Conditions to Avoid</b>              | Protect from heat, sparks and flames. Avoid dust generation.               |
| <b>Materials to Avoid</b>               | Avoid excess heat, strong oxidants.  |
| <b>Hazardous Decomposition Products</b> | Oxides of carbon.  |
| <b>Hazardous Polymerisation</b>         | Hazardous Polymerisation will not occur.                                   |

## 11. TOXICOLOGICAL INFORMATION

|                            |  |
|----------------------------|--|
| <b>General Information</b> | No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:<br>Ingestion: No adverse effects expected, however, large amounts may cause nausea and vomiting.<br>Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.<br>Skin contact: Repeated or prolonged skin contact may lead to irritation.<br>Inhalation: Breathing in dust may result in respiratory irritation. |
| <b>Carcinogen Category</b> | None   |

## 12. ECOLOGICAL INFORMATION

|                                  |   |
|----------------------------------|---|
| <b>Ecotoxicity</b>               | No Data Available                               |
| <b>Persistence/Degradability</b> | No information available.                       |
| <b>Mobility</b>                  | No information available.                       |
| <b>Environmental Fate</b>        | Not PBT, RQ <1, low concern to the environment. |
| <b>Bioaccumulation Potential</b> | Biodegradable.                                  |
| <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> | Contact a specialist disposal company or the local waste regulator for advice. Contaminated packaging can be re-used after emptying and cleaning. |

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | SODIUM CARBOXYMETHYLCELLULOSE                          |
| <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> | SODIUM CARBOXYMETHYLCELLULOSE                          |
| <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> | SODIUM CARBOXYMETHYLCELLULOSE                          |
| <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> | SODIUM CARBOXYMETHYLCELLULOSE |
| <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> | SODIUM CARBOXYMETHYLCELLULOSE                         |
| <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> | SODIUM CARBOXYMETHYLCELLULOSE                         |
| <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> | HSR006652 |
|----------------------|-----------|

### National/Regional Inventories

|                         |        |
|-------------------------|--------|
| <b>Australia (AICS)</b> | Listed |
|-------------------------|--------|

|  |                |
|--|----------------|
| Canada (DSL)                                   | Listed         |
| Canada (NDSL)                                  | Not Listed     |
| China (IECSC)                                  | Listed         |
| Europe (EINECS)                                | 618-378-6      |
| Europe (REACH)                                 | Not Determined |
| Japan (ENCS/METI)                              | 8-181/8-203    |
| Korea (KECI)                                   | KE-05354       |
| Malaysia (EHS Register)                        | Not Listed     |
| New Zealand (NZIoC)                            | Listed         |
| Philippines (PICCS)                            | Listed         |
| Switzerland (Giftliste 1)                      | Not Determined |
| Switzerland (Inventory of Notified Substances) | Not Determined |
| Taiwan (NCSR)                                  | Listed         |
| USA (TSCA)                                     | Listed         |

## 16. OTHER INFORMATION

|                              |  |
|------------------------------|--|
| <b>Related Product Codes</b> | CAMECE0100, CAMECE0700, CAMECE1000, CAMECE1001, CAMECE1002, CAMECE1003, CAMECE1004, CAMECE1005, CAMECE1006, CAMECE1007, CAMECE1008, CAMECE1009, CAMECE1010, CAMECE1011, CAMECE1100, CAMECE1200, CAMECE1300, CAMECE1301, CAMECE1400, CAMECE1500, CAMECE1800, CAMECE1801, CAMECE1802, CAMECE2000, CAMECE2100, CAMECE2101, CAMECE2300, CAMECE2500, CAMECE2600, CAMECE2700, CAMECE2800, CAMECE2900, CAMECE3000, CAMECE3001, CAMECE3010, CAMECE3100, CAMECE3200, CAMECE4000, CAMECE4100, CAMECE4500, CAMECE5000, CAMECE5600, CAMECE5700, CAMECE5701, CAMECE5800, CAMECE5900, CAMECE5920, CAMECE6000, CAMECE6500, CAMECE6600, CAMECE6700, CAMECE6701, CAMECE6702, CAMECE6703, CAMECE6704, CAMECE6705, CAMECE6706, CAMECE6707, CAMECE6708, CAMECE6709, CAMECE6710, CAMECE6711, CAMECE6712, CAMECE6713, CAMECE6714, CAMECE6715, CAMECE7000, CAMECE7200, CAMECE7700, CAMECE8000, CAMECE8200, CAMECE8300, CAMECE8400, CAMECE8500, CAMECE8600, CAMECE8800, CAMECE8900, CAMECE9000, CAMECE9100, CAMECE9200, CAMECE9300, CAMECE9400, CAMECE9500, CAMECE9600 |
| <b>Revision</b>              | 4  |
| <b>Revision Date</b>         | 19 Jan 2017  |
| <b>Reason for Issue</b>      | Upddate  |
| <b>Key/Legend</b>            | <p>&lt; Less Than<br/>&gt; 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<br/> <b>deg C (°C)</b> Degrees Celcius<br/> <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand<br/> <b>deg F (°F)</b> Degrees Farenheit<br/> <b>g</b> Grams<br/> <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre<br/> <b>g/l</b> Grams per Litre<br/> <b>HSNO</b> Hazardous Substance and New Organism<br/> <b>IDLH</b> Immediately Dangerous to Life and Health<br/> <b>immiscible</b> Liquids are insoluable in each other.<br/> <b>inHg</b> Inch of Mercury<br/> <b>inH<sub>2</sub>O</b> Inch of Water</p>   |



**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