



# SAFETY DATA SHEET SORBITAN STEARATE REVISION 3, DATE 21 JAN 21

## 1. IDENTIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Name</b>        | <b>Sorbitan Stearate</b>                       |
| <b>Other Names</b>         | Sorbitan monostearate                          |
| <b>Uses</b>                | Industrial uses; Surfactant; Emulsifiers.      |
| <b>Chemical Family</b>     | No Data Available                              |
| <b>Chemical Formula</b>    | C <sub>24</sub> H <sub>46</sub> O <sub>6</sub> |
| <b>Chemical Name</b>       | Sorbitan, monooctadecanoate                    |
| <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<br>Minto NSW 2566<br>Australia   | +61-2-97333000  |
| Redox 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

|                              |  |
|------------------------------|--|
| <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) |
|---------------------------------------|---|

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

| Chemical Entity       | Formula  | CAS Number | Proportion  |
|-----------------------|----------|------------|-------------|
| Sorbitan monostearate | C24H46O6 | 1338-41-6  | >99 - 100 % |

## 4. FIRST AID MEASURES

## Description of necessary measures according to routes of exposure

|  |  |
|--|--|
| <b>Swallowed</b>                                 | IF SWALLOWED: Rinse mouth. Get medical advice/attention. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep the head lower than chest to avoid aspiration into the lungs. Never give anything by mouth to an unconscious or convulsing person.                     |
| <b>Eye</b>                                       | IF IN EYES: Immediately flush eyes with (warm) 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: Remove contaminated clothing and shoes immediately. Flush skin with (warm) running water for at least 15 minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.  |
| <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. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.  |
| <b>Advice to Doctor</b>                          | There is not known any specific antidote. Direct the treatment in accordance with the symptoms and clinical conditions of the patient.   |
| <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.  |
| <b>Flammability Conditions</b> | Combustible solid; May burn but does not ignite readily.<br>*Flame might be invisible in daylight.  |
| <b>Extinguishing Media</b>     | Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), foam or water spray for extinction. Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire. |

|   |   |
|---|---|
| <b>Fire and Explosion Hazard</b>          | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
| <b>Hazardous Products of Combustion</b>   | Fire may produce irritating and/or toxic fumes, including Carbon oxides.  |
| <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>                        | 225 °C [Closed cup]   |
| <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. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing. |
| <b>Clean Up Procedures</b>                  | Collect material (sweep or vacuum up) and keep in suitable, properly labelled containers for disposal (see SECTION 13). Avoid dispersal of dust in the air.  |
| <b>Containment</b>                          | Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.   |
| <b>Decontamination</b>                      | Wash the contaminated surface with water, which should be collected for disposal.  |
| <b>Environmental Precautionary Measures</b> | Prevent product from entering into soil and waterways. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.                            |
| <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. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). <b>WARNING!</b> May form combustible dust concentrations in air. Keep away from heat, sparks, open flames and other ignition sources - No smoking. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. |
| <b>Storage</b>   | Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers closed when not in use - check regularly for spills. Protect containers against physical damage. Keep away from heat, sparks, open flames and other ignition sources - No smoking. Keep away from incompatible materials (see SECTION 10).<br>*Avoid stacking and extruding to prevent compaction and agglomeration.   |
| <b>Container</b> | Keep in the original container or recommended packaging material, i.e. Polyethylene, Polypropylene, Stainless steel.   |

## 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:<br>- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m <sup>3</sup> (measured as inhalable dust).<br>- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m <sup>3</sup> ; TWA = 3 mg/m <sup>3</sup> (respirable dust). |
|----------------|---|

|                                      |  |
|--------------------------------------|--|
| <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> | <ul style="list-style-type: none"> <li>- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate filter respirator. In case of emergency or contact with high concentrations of the product, wear an air supplied mask or self contained breathing apparatus (refer to AS/NZS 1715 &amp; 1716).</li> <li>- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields; Chemical splash goggles.</li> <li>- Hand protection: Handle with gloves. Recommended: Protective gloves, e.g. Rubber or PVC.</li> <li>- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: PVC apron; Protective working clothes and safety shoes.</li> </ul> |
| <b>Special Hazards Precautions</b>   | No information available.  |
| <b>Work Hygienic Practices</b>       | Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                       |   |
|---------------------------------------|---|
| <b>Physical State</b>                 | Solid                                   |
| <b>Appearance</b>                     | Flakes                                  |
| <b>Odour</b>                          | Light, oil                              |
| <b>Colour</b>                         | Yellowish                               |
| <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>                  | 50 - 57 °C                              |
| <b>Freezing Point</b>                 | No Data Available                       |
| <b>Solubility</b>                     | Insoluble in water and mineral oil 25°C |
| <b>Specific Gravity</b>               | No Data Available                       |
| <b>Flash Point</b>                    | 225 °C [Closed cup]                     |
| <b>Auto Ignition Temp</b>             | No Data Available                       |
| <b>Evaporation Rate</b>               | No Data Available                       |
| <b>Bulk Density</b>                   | ~ 1,000 kg/m <sup>3</sup> (25 °C)       |
| <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>                      | 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>                                   | Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
| <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> | Water jets should not be used directly on igniting products because it may disperse the material and intensify the fire.  |
| <b>Properties That May Initiate or Contribute to Fire Intensity</b>   | Combustible solid; May burn but does not ignite readily.<br>*Flame might be invisible in daylight.  |
| <b>Reactions That Release Gases or Vapours</b>                        | Fire/decomposition may produce irritating and/or toxic fumes, including Carbon oxides.  |
| <b>Release of Invisible Flammable Vapours and Gases</b>               | No information available.   |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>General Information</b>              | No hazardous reactivity is expected.   |
| <b>Chemical Stability</b>               | Stable under normal conditions of use and storage.                                     |
| <b>Conditions to Avoid</b>              | Avoid high temperatures, ignition sources and prolonged exposure to the air.           |
| <b>Materials to Avoid</b>               | Incompatible/reactive with strong acids, strong oxidising agents, nitrates.            |
| <b>Hazardous Decomposition Products</b> | Fire/decomposition may produce irritating and/or toxic fumes, including Carbon oxides. |
| <b>Hazardous Polymerisation</b>         | Will not polymerize.   |

## 11. TOXICOLOGICAL INFORMATION

|                            |   |
|----------------------------|---|
| <b>General Information</b> | <p>Most important symptoms and effects, acute and delayed:</p> <ul style="list-style-type: none"> <li>- Ingestion: No acute toxic effects are known due to ingestion of this product.</li> <li>- Eye contact: May cause slight irritation.</li> <li>- Skin contact: It is unlikely that exposure to small amounts, for short periods can cause any toxic effect. Repeated and prolonged contact may cause irritation. Slightly to moderately irritating (Rabbit, 800 µg).</li> <li>- Inhalation: Due to low vapour pressure, unlikely to cause inhalation problems at room temperature. Vapours from the liquid at high temperatures or mist of the product in high concentrations may cause irritation of the respiratory system.</li> </ul> <p>Chronic effects: Not Classifiable as a human carcinogen.</p> |
| <b>Chronic</b>             |   |
| <b>Reproduction</b>        | <p>Reproductive toxicity:</p> <p>Effects on the newborn have been reported from the repeated or prolonged ingestion in rats. TDLo, rat: 635 g/kg (Multigeneration). TDLo, rat: 1270 g/kg (prior to copulation 84-day, 21-day, continuous). LOAEL, Wistar rat: 10.000 mg/kg/day [maternal toxicity based on lactation and laxative effects and decreased viability of offspring; reproductive toxicity based on decreased reproductive performance and pregnancy rate; developmental toxicity based on decreased growth of offspring]. NOAEL, Wistar rat: 5.000 mg/kg/day [maternal toxicity; reproductive toxicity; developmental toxicity].</p>  |
| <b>Other</b>               | <p>Repeated dose toxicity:</p> <ul style="list-style-type: none"> <li>- NOAEL, rat: 2600 mg/kg/day [based on kidney organ weight and total leucocyte count].</li> <li>- LOAEL, mouse: 5200 mg/kg/day [based on enlarged kidneys and nephrosis].</li> </ul>  |

|                            |  |
|----------------------------|--|
| <b>Mutagenicity</b>        | Germ cell mutagenicity:<br>No adequate gene mutation studies were available; however, an in vitro test with hamster lung cells, chromosomal aberrations occurred at all concentrations (ca. 0, 1100, 2200 or 4300 µg/mL) in the presence of metabolic activation. Not mutagenic to Salmonella typhimurium, with or without metabolic activation. Not induce in vitro transformation of hamster embryo cells at concentrations ranging from 1 to 300 µg/mL. |
| <b>Acute</b>               |  |
| <b>Ingestion</b>           | Acute toxicity (Oral):<br>- LD50, Rat: >15.9 g/kg [Supplier's SDS].  |
| <b>Carcinogen Category</b> | None   |

## 12. ECOLOGICAL INFORMATION

|                                  |  |
|----------------------------------|--|
| <b>Ecotoxicity</b>               | Aquatic toxicity:<br>- LC50, Fish (Orizas latipes): >1,000 mg/L (96 h).<br>- EC50, Crustacea (Daphnia magna): >1,000 mg/L (48 h).<br>- EC50, Algae (Pseudokirchnerella subcapitata): >1,000 mg/L (72 h). |
| <b>Persistence/Degradability</b> | Readily biodegradable (75 - 80% of its theoretical BOD over a 28-day period) [modified MITI test - OECD 301C].   |
| <b>Mobility</b>                  | It is expected to have high mobility in soil. Volatilization is considered low based on the estimated Henry's Law constants < 1.0×10E-10 atm.m <sup>3</sup> /mole.                                       |
| <b>Environmental Fate</b>        | Slightly hazardous to water - Avoid release to the environment.  |
| <b>Bioaccumulation Potential</b> | It is not expected to bioaccumulate in the environment.  |
| <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. The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. |
| <b>Special Precautions for Land Fill</b> | Packaging: Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned.  |

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

|                             |                   |
|-----------------------------|-------------------|
| <b>Proper Shipping Name</b> | Sorbitan Stearate |
| <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 |

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

**Land Transport (Malaysia)**

ADR Code

|                      |  |
|----------------------|--|
| Proper Shipping Name | Sorbitan Stearate                                      |
| 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 (New Zealand)**

NZS5433

|                      |  |
|----------------------|--|
| Proper Shipping Name | Sorbitan Stearate                                      |
| 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 | Sorbitan Stearate                                      |
| 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 | Sorbitan Stearate |
| 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 | Sorbitan Stearate                                     |
| 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 &amp; 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 | Not Hazardous |
|---------------|---------------|

**National/Regional Inventories**

|                         |                |
|-------------------------|----------------|
| Australia (AIC)         | Listed         |
| Canada (DSL)            | Listed         |
| Canada (NDSL)           | Not Determined |
| China (IECSC)           | Listed         |
| Europe (EINECS)         | Not Determined |
| Europe (REACH)          | Not Determined |
| Japan (ENCS/METI)       | Not Determined |
| Korea (KECI)            | Listed         |
| Malaysia (EHS Register) | Not Determined |



|  |                |
|--|----------------|
| 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

|                       |  |
|-----------------------|--|
| Related Product Codes | SOMOST1000, SOMOST1010, SOMOST1500, SOMOST2000   |
| Revision              | 3  |
| Revision Date         | 21 Jan 2021  |
| Key/Legend            | <p>&lt; Less Than<br/>&gt; Greater Than</p> <p><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<br/> <b>K</b> Kelvin<br/> <b>kg</b> Kilogram<br/> <b>kg/m<sup>3</sup></b> Kilograms per Cubic Metre<br/> <b>lb</b> Pound<br/> <b>LC50</b> 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.<br/> <b>LD50</b> 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.<br/> <b>ltr or L</b> Litre<br/> <b>m<sup>3</sup></b> Cubic Metre<br/> <b>mbar</b> Millibar<br/> <b>mg</b> Milligram<br/> <b>mg/24H</b> Milligrams per 24 Hours<br/> <b>mg/kg</b> Milligrams per Kilogram<br/> <b>mg/m<sup>3</sup></b> Milligrams per Cubic Metre<br/> <b>Misc or Miscible</b> Liquids form one homogeneous liquid phase regardless of the amount of either component present.<br/> <b>mm</b> Millimetre<br/> <b>mmH<sub>2</sub>O</b> Millimetres of Water<br/> <b>mPa.s</b> Millipascals per Second<br/> <b>N/A</b> Not Applicable<br/> <b>NIOSH</b> National Institute for Occupational Safety and Health<br/> <b>NOHSC</b> National Occupational Heath and Safety Commission</p> |

**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