



# Safety Data Sheet Mineral Base Oil/White Mineral Oil Revision 3, Date 31 Jul 18

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Mineral Base Oil/White Mineral Oil</b>
<b>Other Names</b>	Base Oil 70N; Hydrotreated (mild) light paraffinic distillate; Mineral oil, petroleum distillates, hydrotreated light paraffinic; Phazol 7; Yubase 3
<b>Uses</b>	Manufacture of lubricants.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	Unspecified
<b>Chemical Name</b>	Distillates, petroleum, hydrotreated light paraffinic
<b>Product Description</b>	Petroleum hydrocarbons. The DMSO extract by IP 346 of this substance is less than 3%.

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

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

### Emergency Contact Details

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

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

## 2. HAZARD IDENTIFICATION

**Poisons Schedule (Aust)** Not Scheduled

### Globally Harmonised System



**Hazard Classification**

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Hazard Categories**

Acute Toxicity (Inhalation) - Category 4  
Aspiration Hazard - Category 1

**Pictograms****Signal Word**

Danger

**Hazard Statements**

**H332** Harmful if inhaled.  
**H304** May be fatal if swallowed and enters airways.

**Precautionary Statements**

Prevention	<b>P261</b>	Avoid breathing mist/vapours/spray.
	<b>P271</b>	Use only outdoors or in a well-ventilated area.
Response	<b>P301 + P310</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
	<b>P331</b>	Do NOT induce vomiting.
	<b>P312</b>	Call a POISON CENTER or doctor if you feel unwell.
	<b>P304 + P340</b>	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
Storage	<b>P405</b>	Store locked up.
Disposal	<b>P501</b>	Dispose of contents/container in accordance with local / regional / national / international regulations.

**National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification**

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

Chemical Entity	Formula	CAS Number	Proportion
Distillates, petroleum, hydrotreated light paraffinic	Unspecified	64742-55-8	100 %

**4. FIRST AID MEASURES****Description of necessary measures according to routes of exposure****Swallowed**

IF SWALLOWED: Immediately call a Poison Centre or doctor/physician. Rinse mouth, then drink small quantities of water. Do NOT induce vomiting. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep victim calm and warm - Obtain immediate medical care. Never give anything by mouth to an unconscious person.

**Eye**

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

**Skin**

IF ON SKIN: Remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15 minutes. In case of gross contamination, drench contaminated clothing and skin with plenty of water before removing clothes (or wear gloves). Get medical advice/attention if skin irritation occurs or if you feel unwell. 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. Call a Poison Centre or doctor/physician for advice if large quantities have been inhaled or if you feel unwell. Apply resuscitation if victim is not breathing - Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device. Administer oxygen if breathing is difficult. Keep victim calm and warm - Obtain immediate medical care.
<b>Advice to Doctor</b>	No specific treatment; Treat symptomatically. No action shall be taken involving any personal risk or without suitable training. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.
<b>Medical Conditions Aggravated by Exposure</b>	No information available.

## 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Avoid getting water inside containers.
<b>Flammability Conditions</b>	Combustible liquid; May burn but does not ignite readily.
<b>Extinguishing Media</b>	Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), foam or water spray for extinction - Do not use water jets (may cause splattering and spread the fire). Simultaneous use of foam and water on the same surface is to be avoided, as water destroys the foam.
<b>Fire and Explosion Hazard</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous Products of Combustion</b>	Fire may produce irritating, toxic and/or corrosive fumes. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.
<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) in combination with normal firefighting clothing (full fire kit).
<b>Flash Point</b>	>=190 °C [Closed cup]
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	260 - 371 °C
<b>Hazchem Code</b>	No Data Available

## 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	No action shall be taken involving any personal risk or without suitable training. Alert emergency personnel. Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	Move containers from spill area. Collect free product by suitable means for recovery, recycling or safe disposal, or absorb with earth, sand or other non-combustible material and transfer to a suitable container for disposal (see SECTION 13).
<b>Containment</b>	Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. If necessary dike the product with dry earth, sand or similar non-combustible materials. Large spillages may be cautiously covered with foam, if available, to limit fire risk.
<b>Decontamination</b>	No information available.
<b>Environmental Precautionary Measures</b>	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground.
<b>Personal Precautionary Measures</b>	Use personal protective equipment as required (see SECTION 8). Large spill: Wear self-contained breathing apparatus (SCBA) and chemical splash suit.

## 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 - Use only outdoors or in a well-ventilated place. Handle in accordance with good industrial hygiene and safety practice. Do not ingest. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). Combustible liquid: Keep away from heat and all sources of ignition - No smoking. Take precautionary measures against static discharge. Avoid splash filling of bulk volumes when handling hot liquid product. Avoid release to the environment.
<b>Storage</b>	Store in a cool, dry and well-ventilated place, protected from direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and all sources of ignition - No smoking. Keep away from food/drink and incompatible materials (see SECTION 10). Store locked up. Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Use appropriate containment to avoid environmental contamination.
<b>Container</b>	Keep in the original container or an approved alternative made from a compatible material, i.e. mild steel, stainless steel. Do not store in unlabelled containers. Empty containers retain product residue and can be hazardous. Do not reuse container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No specific exposure standards are available for this product. - Safe Work Australia Exposure Standard for Oil mist, refined mineral: TWA = 5 mg/m <sup>3</sup> . - New Zealand WES for Oil mist, mineral: TWA = 5 mg/m <sup>3</sup> (Sampled by a method that does not collect vapour); STEL = 10 mg/m <sup>3</sup> .
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### Exposure Limits

### Biological Limits

Material	Type	Limit Info
Distillates, petroleum, hydrotreated light paraffinic	TLV/STEL	10mg/m <sup>3</sup> mist
	TLV/TWA	5mg/m <sup>3</sup> mist

<b>Engineering Measures</b>	Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. - Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
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<b>Personal Protection Equipment</b>	- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if a risk assessment indicates this is necessary. Recommended: Use a properly fitted, organic vapour/particulate filter respirator complying with an approved standard. - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. - Hand protection: Handle with gloves. Recommended: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Personal protective equipment for the body, including appropriate footwear and any additional skin protection measures, should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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<b>Special Hazards Precautions</b>	No information available.
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<b>Work Hygienic Practices</b>	Ensure that proper housekeeping measures are in place. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove contaminated clothing and protective equipment before entering eating areas. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Odour</b>	Hydrocarbon (slight)
<b>Colour</b>	Colourless

<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	<=0.01 kPa (@ Room temperature)
<b>Relative Vapour Density</b>	>=5 Air = 1
<b>Boiling Point</b>	290 - 450 °C
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	No Data Available
<b>Specific Gravity</b>	0.83
<b>Flash Point</b>	>=190 °C [Closed cup]
<b>Auto Ignition Temp</b>	260 - 371 °C
<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>	3.9 - 6 (log Pow)
<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>	0.0199 - 8.47 cm <sup>2</sup> /s (@ 40 °C)
<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>	Not applicable.
<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>	Combustible liquid; May burn but does not ignite readily.
<b>Reactions That Release Gases or Vapours</b>	Fire may produce irritating, toxic and/or corrosive fumes. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Chemical Stability</b>	The product is stable.
<b>Conditions to Avoid</b>	Keep away from heat and all sources of ignition.
<b>Materials to Avoid</b>	Incompatible/reactive with oxidising agents.
<b>Hazardous Decomposition Products</b>	Fire may produce irritating, toxic and/or corrosive fumes. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds.

**Hazardous Polymerisation**

No information available.

**11. TOXICOLOGICAL INFORMATION****General Information**

- Acute toxicity: Harmful if inhaled. Ingestion may cause nausea, vomiting and diarrhoea.
- Skin corrosion/irritation: Non-irritating to weakly irritating (Rabbits, humans). May cause dry skin and/or irritation in case of repeated or prolonged exposure.
- Eye damage/irritation: May cause slight irritation; Practically non-irritating.
- Respiratory/skin sensitisation: Not considered to be a dermal sensitiser; Not expected to cause respiratory sensitisation.
- Germ cell mutagenicity: Non-mutagenic.
- Carcinogenicity: The DMSO extract by IP 346 of this substance is less than 3% (typical 0.2 % with maximum 0.5 %). Consequently it is not classified as a carcinogen.
- Reproductive toxicity: No effects on reproductive parameters.
- STOT (single exposure): Inhalation at ambient temperature is unlikely because of the low vapour pressure of the substance; May cause irritation of the respiratory tract due to excessive fumes, mist or vapour exposure.
- STOT (repeated exposure): This substance is not classified for repeat-dose toxicity.
- Aspiration toxicity: May be fatal if swallowed and enters airways.

**Acute****Ingestion**

Acute toxicity (Oral):  
 - LD50, Rat: >5,000 mg/kg

**Other**

Acute toxicity (Dermal):  
 - LD50, Rabbit: >2,000 mg/kg

**Inhalation**

Acute toxicity (Inhalation - Dust/mist):  
 - LC50, Rat: 3,900 mg/m<sup>3</sup> (3.9 mg/l) 4 h.

**Carcinogen Category**

None

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Aquatic toxicity:  
 - LC50, Fish: >100 mg/l (96 h).  
 - EC50, Daphnia: >100 mg/l (48 h).  
 - IC50, Algae: >100 mg/l (72 h).

**Persistence/Degradability**

Inherently biodegradable.

**Mobility**

No information available.

**Environmental Fate**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Bioaccumulation Potential**

High bioaccumulative potential (log Pow: 3.9 - 6).

**Environmental Impact**

No Data Available

**13. DISPOSAL CONSIDERATIONS****General Information**

The generation of waste should be avoided or minimised wherever possible. Dispose of surplus, non-recyclable solutions and any by-products via a licensed waste disposal contractor and in accordance with local/regional/national regulations. This material and its container must be disposed of in a safe way. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Special Precautions for Land Fill**

Packaging disposal: Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty containers or liners may retain some product residues. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

**14. TRANSPORT INFORMATION**

**Land Transport (Australia)**

ADG Code

<b>Proper Shipping Name</b>	Mineral Base Oil/White Mineral Oil (Phazol 7)
<b>Class</b>	C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable
<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>	Mineral Base Oil/White Mineral Oil (Phazol 7)
<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>	Mineral Base Oil/White Mineral Oil (Phazol 7)
<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>	Mineral Base Oil/White Mineral Oil (Phazol 7)
<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>	Mineral Base Oil/White Mineral Oil (Phazol 7)
<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>	Mineral Base Oil/White Mineral Oil (Phazol 7)
<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 &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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**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>	Not Assessed
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**National/Regional Inventories**

<b>Australia (AIIIC)</b>	Listed
<b>Canada (DSL)</b>	Listed
<b>Canada (NDSL)</b>	Not Determined



<b>China (IECSC)</b>	Listed
<b>Europe (EINECS)</b>	Listed - 265-158-7
<b>Europe (REACH)</b>	01-2119487077-29-0022
<b>Japan (ENCS/METI)</b>	Listed
<b>Korea (KECI)</b>	Serial - KE-12553
<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Listed
<b>Switzerland (Giftliste 1)</b>	Listed
<b>Switzerland (Inventory of Notified Substances)</b>	Listed
<b>Taiwan (NCSR)</b>	Not Determined
<b>USA (TSCA)</b>	Listed

## 16. OTHER INFORMATION

<b>Related Product Codes</b>	WHIOIL1401, WHIOIL9100, WHIOIL9200, WHIOIL9300, WHIOIL9400, WHIOIL9401, WHIOIL9500, WHIOIL9501, WHIOIL9600, WHIOIL9700, WHIOIL9800
<b>Revision</b>	3
<b>Revision Date</b>	31 Jul 2018
<b>Key/Legend</b>	<p> <b>&lt;</b> Less Than  <b>&gt;</b> Greater Than  <b>AICS</b> Australian Inventory of Chemical Substances  <b>atm</b> Atmosphere  <b>CAS</b> Chemical Abstracts Service (Registry Number)  <b>cm<sup>2</sup></b> Square Centimetres  <b>CO<sub>2</sub></b> Carbon Dioxide  <b>COD</b> Chemical Oxygen Demand  <b>deg C (°C)</b> Degrees Celcius  <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand  <b>deg F (°F)</b> Degrees Farenheit  <b>g</b> Grams  <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre  <b>g/l</b> Grams per Litre  <b>HSNO</b> Hazardous Substance and New Organism  <b>IDLH</b> Immediately Dangerous to Life and Health  <b>immiscible</b> Liquids are insoluable in each other.  <b>inHg</b> Inch of Mercury  <b>inH<sub>2</sub>O</b> Inch of Water  <b>K</b> Kelvin  <b>kg</b> Kilogram  <b>kg/m<sup>3</sup></b> Kilograms per Cubic Metre  <b>lb</b> Pound  <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.  <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.  <b>ltr</b> or <b>L</b> Litre  <b>m<sup>3</sup></b> Cubic Metre  <b>mbar</b> Millibar  <b>mg</b> Milligram  <b>mg/24H</b> Milligrams per 24 Hours  <b>mg/kg</b> Milligrams per Kilogram  <b>mg/m<sup>3</sup></b> Milligrams per Cubic Metre  <b>Misc</b> or <b>Miscible</b> Liquids form one homogeneous liquid phase regardless of the amount of either component </p>

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