

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Phenothiazine</b>
<b>Other Names</b>	No Data Available
<b>Uses</b>	Polymerisation inhibitor; Pharmaceutical intermediate.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	C <sub>12</sub> H <sub>9</sub> NS
<b>Chemical Name</b>	10H-Phenothiazine
<b>Product Description</b>	No Data Available

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

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Suite 13A.03, Menara Summit Persiaran Kewajipan USJ1 47600 UEP Subang Jaya Selangor, 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	Australia – Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
National Poison Centre	Malaysia	+60-4-6536-999
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)**

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## 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 (Oral) - Category 5  
 Skin Corrosion/Irritation - Category 2  
 Specific Target Organ Toxicity (Single Exposure) - Category 1  
 Specific Target Organ Toxicity (Single Exposure) - Category 3  
 Specific Target Organ Toxicity (Repeated Exposure) - Category 2  
 Acute Hazard To The Aquatic Environment - Category 1  
 Long-term Hazard To The Aquatic Environment - Category 1

**Pictograms**

**Signal Word** Danger

**Hazard Statements**

**H303** May be harmful if swallowed.  
**H315** Causes skin irritation.  
**H335** May cause respiratory irritation.  
**H370** Causes damage to organs (liver, kidney, blood, nervous system, circulatory system).  
**H373** May cause damage to organs (blood) through prolonged or repeated exposure.  
**H410** Very toxic to aquatic life with long lasting effects.

<b>Precautionary Statements</b>	Prevention	<b>P280</b>	Wear protective gloves.
		<b>P260</b>	Do not breathe dusts or mists.
		<b>P273</b>	Avoid release to the environment.
		<b>P270</b>	Do not eat, drink or smoke when using this product.
		<b>P271</b>	Use only outdoors or in a well-ventilated area.
	Response	<b>P307 + P311</b>	IF exposed: Call a POISON CENTER or doctor/physician.
		<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of water.
		<b>P312</b>	Call a POISON CENTER or doctor if you feel unwell.
		<b>P391</b>	Collect spillage.
		<b>P304 + P340</b>	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
		<b>P332 + P313</b>	If skin irritation occurs: Get medical attention.
		<b>P362 + P364</b>	Take off contaminated clothing and wash it before reuse.
	Storage	<b>P403 + P233</b>	Store in a well-ventilated place. Keep container tightly closed.
		<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)

**Safe Work Australia**

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

**Hazard Classification**

Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

**HSNO Classifications**Health Hazards **6.3A**

Substances that are irritating to the skin

**6.9A**

Substances that are toxic to human target organs or systems

Environmental Hazards **9.1A**

Substances that are very ecotoxic in the aquatic environment

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

Chemical Entity	Formula	CAS Number	Proportion
Phenothiazine	C12H9NS	92-84-2	>=99.5 %

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

IF SWALLOWED: Rinse mouth. Call a Poison Centre or doctor/physician for advice. 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. Get medical advice/attention.

**Skin**

IF ON SKIN: Remove material from skin immediately - Wash off with plenty of soap and water (use polyethylene glycol, e.g. PEG-400 if available). Take off contaminated clothing and wash before reuse. Get medical advice/attention.

**Inhaled**

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. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim calm and warm - Obtain immediate medical care.

**Advice to Doctor**

If exposed, call a Poison Centre or doctor/physician. Treat symptomatically. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.

**Medical Conditions Aggravated by Exposure**

Repeated or prolonged contact may cause skin sensitization as well as photosensitisation.

**5. FIRE FIGHTING MEASURES****General Measures**

If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Dike fire-control water for later disposal.

**Flammability Conditions**

Combustible; May burn but does not ignite readily.

**Extinguishing Media**Use dry chemical, Carbon dioxide (CO<sub>2</sub>), foam or water spray for extinction. Do not scatter spilled material with high-pressure water streams.

<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, Nitrogen oxides, Sulfur oxides.
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control water - Runoff may pollute waterways.
<b>Personal Protective Equipment</b>	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
<b>Flash Point</b>	202 °C
<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 dust formation. Do not breathe dust/mist and avoid contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations (see SECTION 13).
<b>Containment</b>	Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud. Cover powder spill with plastic sheet or tarp to minimize spreading.
<b>Decontamination</b>	Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Environmental Precautionary Measures</b>	Spillages and decontamination runoff should be prevented from entering drains and watercourses.
<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>	Wear suitable protective equipment (see SECTION 8). *P3 filter respirator for harmful particles.

## 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 area. Handle in accordance with good industrial hygiene and safety practice. Avoid dust/mist/aerosol formation. Do not breathe dust/mist/aerosols and avoid contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). WARNING: May form combustible dust concentrations in air. Keep away from heat and sources of ignition - No smoking. Take precautionary measures against electrostatic charges - earthing necessary during loading operations.
<b>Storage</b>	Store in a cool, dark and well-ventilated place. Store under inert gas. Keep container tightly closed and dry. Avoid exposure to air and light. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
<b>Container</b>	Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	CHEMICAL: Phenothiazine (CAS No. 92-84-2): - Safe Work Australia Exposure Standard: TWA = 5 mg/m <sup>3</sup> ; Absorption through the skin may be a significant source of exposure (Sk).
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- New Zealand Workplace Exposure Standard: TWA = 5 mg/m<sup>3</sup>.
- NIOSH REL: TWA = 5 mg/m<sup>3</sup> [skin].

**Exposure Limits**

No Data Available

**Biological Limits**

No information available.

**Engineering Measures**

Use a closed system if possible, or with local exhaust ventilation if dust or aerosol will be generated.

**Personal Protection Equipment**

- Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended: P2 particle respirator; For higher level protection, use combination type ABEK-P2 respirator cartridges. Use respirators and components tested and approved under appropriate government standards (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Tightly fitting safety glasses; Face-shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.
- Hand protection: Wear protective gloves. Recommended: Nitrile rubber, butyl rubber gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Gloves should be discarded and replaced if there is any indication of degradation or chemical break-through.
- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Long-sleeved work clothing, as appropriate: Full chemical-protective suit, apron, boots. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance(s) at the specific workplace.

**Special Hazards Precautions**

No information available.

**Work Hygienic Practices**

Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Take off contaminated clothing and wash before reuse. Garments that cannot be cleaned must be destroyed/disposed of. Contaminated work clothing should not be allowed out of the workplace. 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>	Powder
<b>Odour</b>	Slight amine
<b>Colour</b>	Light yellow to greenish
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	8.9E-07 mmHg (@ No Data Available)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	290 °C
<b>Melting Point</b>	185.1 °C
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Hardly soluble in water - Soluble in acetone, ethanol
<b>Specific Gravity</b>	No Data Available
<b>Flash Point</b>	202 °C
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	No Data Available
<b>Density</b>	1.34 - 1.36 g/cm <sup>3</sup>
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	199.28 g/mol
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	Log Pow = 4.2

<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>	Air-sensitive; Light-sensitive.
<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>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	Combustible; May burn but does not ignite readily.
<b>Reactions That Release Gases or Vapours</b>	Combustion/thermal decomposition may produce irritating and/or toxic fumes, including Carbon oxides, Nitrogen oxides, Sulfur oxides.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	When handled and stored appropriately no dangerous reactions are known.
<b>Chemical Stability</b>	Stable under recommended conditions. No decomposition if used as prescribed.
<b>Conditions to Avoid</b>	Avoid dust/aerosol formation. Keep away from heat and sources of ignition.
<b>Materials to Avoid</b>	Incompatible/reactive with strong oxidising agents, acids.
<b>Hazardous Decomposition Products</b>	Combustion/thermal decomposition may produce irritating and/or toxic fumes, including Carbon oxides, Nitrogen oxides, Sulfur oxides.
<b>Hazardous Polymerisation</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	<ul style="list-style-type: none"> <li>- Acute toxicity: Not classified. May be harmful if swallowed.</li> <li>- Skin corrosion/irritation: Causes skin irritation, itching, redness, pain.</li> <li>- Eye damage/irritation: Not classified. May cause eye irritation, redness, pain. Photosensitization with direct sunlight may result from exposure to the substance and keratitis was also reported among workers handling the substance.</li> <li>- Respiratory/skin sensitisation: Classification not possible due to lack of data. Repeated or prolonged contact may cause skin sensitization as well as photosensitisation/skin photophobia (abnormal visual intolerance to light).</li> <li>- Germ cell mutagenicity: Not classified. Negative (in-vivo somatic cell mutagenicity test); Negative (Ames test).</li> <li>- Carcinogenicity: Classification not possible due to lack of data.</li> <li>- Reproductive toxicity: Classification not possible due to lack of data.</li> <li>- STOT (single exposure): Causes damage to organs (liver, kidney, blood system, cardiovascular system, nervous system). Accidental exposure (of humans) has caused hemolytic anaemia and toxic hepatitis; May cause abdominal cramps, tachycardia and renal damage; Cardiac arrest, hypotension, dysrhythmias, CNS depression and coma may occur. May cause respiratory irritation.</li> <li>- STOT (repeated exposure): May cause damage to organs through prolonged or repeated exposure (blood system).</li> </ul>
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- Aspiration toxicity: No information available.

**Acute**

<b>Ingestion</b>	Acute toxicity (Oral): - LD50, Rats: 5,000 mg/kg [ACGIH (2001)].
<b>Other</b>	Acute toxicity (Dermal): - LD50, Rabbits: ca. 9,400 mg/kg [IUCRID (2000)].
<b>Carcinogen Category</b>	None

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Aquatic toxicity: - EC50, Crustacea (Daphnia magna): 0.055 mg/L (48 h) Immobilisation test [OECD Guideline 202].
<b>Persistence/Degradability</b>	Not readily biodegradable; Phenothiazine is regarded as persistent.
<b>Mobility</b>	No information available.
<b>Environmental Fate</b>	Very toxic to aquatic life with long lasting effects - Prevent entry into soils, drains and waterways.
<b>Bioaccumulation Potential</b>	No potential for bioaccumulation; Low concentration.
<b>Environmental Impact</b>	No Data Available

**13. DISPOSAL CONSIDERATIONS**

<b>General Information</b>	Dispose of contents/container through a licensed disposal company and in accordance with local/regional/national regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
<b>Special Precautions for Land Fill</b>	Contaminated packaging: Dispose of as unused product.

**14. TRANSPORT INFORMATION****Land Transport (Australia)**

ADG Code

<b>Proper Shipping Name</b>	Phenothiazine
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	171 Substances (Low to Moderate Hazard)
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	AU01
<b>Comments</b>	Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs.

**Land Transport (Malaysia)**

ADR Code

## SAFETY DATA SHEET PHENOTHIAZINE REVISION 4, DATE 03 MAR 2022

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenothiazine)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	171 Substances (Low to Moderate Hazard)
<b>UN Number</b>	3077
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (New Zealand)

NZS5433

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenothiazine)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	171 Substances (Low to Moderate Hazard)
<b>UN Number</b>	3077
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (United States of America)

US DOT

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenothiazine)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>ERG</b>	171 Substances (Low to Moderate Hazard)
<b>UN Number</b>	3077
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenothiazine)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3077
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available
<b>EMS</b>	F-A, S-F
<b>Marine Pollutant</b>	Yes

### Air Transport

IATA DGR

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Phenothiazine)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available



UN Number	3077
Hazchem	2Z
Pack Group	III
Special Provision	No Data Available

**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)
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**15. REGULATORY INFORMATION**

General Information	No Data Available
Poisons Schedule (Aust)	6

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR002503 HSR003044 (Revoked)
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**National/Regional Inventories**

Australia (AIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	202-196-5
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (List of Classified Substances)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
Taiwan (TCSI)	Not Determined
USA (TSCA)	Listed
Mexico (INSQ)	Not Determined

## 16. OTHER INFORMATION

Related Product Codes	PHENOT0900, PHENOT1000, PHENOT1100, PHENOT2000, PHENOT2100, PHENOT3000, PHENOT3100
Revision	4
Revision Date	03 Mar 2022
Key/Legend	<p>&lt; Less Than &gt; 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>LC<sub>50</sub></b> 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.  <b>LD<sub>50</sub></b> 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.  <b>ltr or 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 or Miscible</b> Liquids form one homogeneous liquid phase regardless of the amount of either component present.  <b>mm</b> Millimetre  <b>mmH<sub>2</sub>O</b> Millimetres of Water  <b>mPa.s</b> Millipascals per Second  <b>N/A</b> Not Applicable  <b>NIOSH</b> National Institute for Occupational Safety and Health  <b>NOHSC</b> National Occupational Heath and Safety Commission  <b>OECD</b> Organisation for Economic Co-operation and Development  <b>Oz</b> Ounce  <b>PEL</b> Permissible Exposure Limit  <b>Pa</b> Pascal  <b>ppb</b> Parts per Billion  <b>ppm</b> Parts per Million  <b>ppm/2h</b> Parts per Million per 2 Hours  <b>ppm/6h</b> Parts per Million per 6 Hours  <b>psi</b> Pounds per Square Inch  <b>R</b> Rankine  <b>RCP</b> Reciprocal Calculation Procedure  <b>STEL</b> Short Term Exposure Limit  <b>TLV</b> Threshold Limit Value  <b>tne</b> Tonne  <b>TWA</b> Time Weighted Average  <b>ug/24H</b> Micrograms per 24 Hours</p>

**UN** United Nations

**wt** Weight