

### 1. IDENTIFICATION

<b>Product Name</b>	<b>Bisphenol A, Epoxy Resin</b>
<b>Other Names</b>	BE-186 Series; BE-188 Series; bisphenol A, (chloromethyl)oxirane polymer; bisphenol A, epichlorohydrin polymer; epichlorohydrin, bisphenol A resin
<b>Uses</b>	Coatings; Thinners, diluents; Paints; Adhesives; Casting, potting, encapsulation of electrical components; Protective coating, laminating and civil engineering.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	(C <sub>15</sub> H <sub>16</sub> O <sub>2</sub> .C <sub>3</sub> H <sub>5</sub> ClO) <sub>x</sub>
<b>Chemical Name</b>	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
<b>Product Description</b>	Reaction product: bisphenol-A-(epichlorohydrin) epoxy resin (number average molecular weight <=700).

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

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

### Emergency Contact Details

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

Organisation	Location	Telephone
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

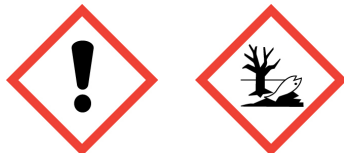
### 2. HAZARD IDENTIFICATION

**Poisons Schedule (Aust)** Schedule 5

### Globally Harmonised System

<b>Hazard Classification</b>	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)
<b>Hazard Categories</b>	Serious Eye Damage/Irritation - Category 2A Skin Corrosion/Irritation - Category 2 Sensitisation (Skin) - Category 1 Long-term Hazard To The Aquatic Environment - Category 2

**Pictograms**



**Signal Word** Warning

<b>Hazard Statements</b>		<b>H315</b>	Causes skin irritation.	
		<b>H317</b>	May cause an allergic skin reaction.	
		<b>H319</b>	Causes serious eye irritation.	
		<b>H411</b>	Toxic to aquatic life with long lasting effects.	
<b>Precautionary Statements</b>	Prevention	<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray.	
		<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.	
		<b>P273</b>	Avoid release to the environment.	
		<b>P280</b>	Wear protective gloves/eye protection/face protection.	
		Response	<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of soap and water.
			<b>P305 + P351 + P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	<b>P333 + P313</b>		If skin irritation or rash occurs: Get medical advice/attention.	
	<b>P337 + P313</b>		If eye irritation persists: Get medical advice/attention.	
	Disposal	<b>P362</b>	Take off contaminated clothing and wash before reuse.	
		<b>P391</b>	Collect spillage.	
		<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** 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

<b>HSNO Classifications</b>	Health Hazards	<b>6.3B</b>	Substances that are mildly irritating to the skin
		<b>6.4A</b>	Substances that are irritating to the eye
		<b>6.5B</b>	Substances that are contact sensitisers
		<b>6.9B</b>	Substances that are harmful to human target organs or systems
	Environmental Hazards	<b>9.1B</b>	Substances that are ecotoxic in the aquatic environment

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Bisphenol A (epichlorohydrin) epoxy resin	(C15H16O2.C3H5ClO)x	25068-38-6	100 %

### 4. FIRST AID MEASURES

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

<b>Swallowed</b>	If swallowed: Call a Poison Centre or doctor/physician if you feel unwell.
<b>Eye</b>	Eye contact: Immediately flush eyes with running water for several minutes, occasionally lifting the upper and lower eyelids. 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>	Skin contact: Remove contaminated clothing and shoes immediately. Flush skin with running water for several minutes; wash with plenty of soap and water. If skin irritation or rash 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. Call a Poison Centre or doctor/physician if experiencing respiratory symptoms, or if you feel unwell.
<b>Advice to Doctor</b>	Treat symptomatically. Monitor circulation.
<b>Medical Conditions Aggravated by Exposure</b>	May cause an allergic skin reaction.

### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
<b>Flammability Conditions</b>	May burn but does not ignite readily.
<b>Extinguishing Media</b>	In case of fire: Use water spray, alcohol-resistant foam, powder or Carbon dioxide for extinction. Do NOT use water with full jet.
<b>Fire and Explosion Hazard</b>	Do not inhale explosion gases or combustion gases. Containers may explode when heated.
<b>Hazardous Products of Combustion</b>	Fire may produce irritating and/or toxic fumes: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Phenols.
<b>Special Fire Fighting Instructions</b>	Runoff from fire control or dilution water may pollute waterways. Do not allow to enter sewers/surface or ground water.
<b>Personal Protective Equipment</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (including fire fighting helmet, coat, trousers, boots, and gloves).
<b>Flash Point</b>	266 °C (@ 1013 hPa)
<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>	•3Z

### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or walk through spilled material. Avoid contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	Absorb with earth, sand or other non-combustible material and transfer to suitable containers for later disposal. See Section 13 for disposal information.
<b>Containment</b>	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.

<b>Decontamination</b>	No information available.
<b>Environmental Precautionary Measures</b>	Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unprotected/unauthorised personnel away.
<b>Personal Precautionary Measures</b>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 for information on personal protective clothing/equipment.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Safety showers and eyewash fountains should be provided within the immediate work area for emergency use. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin and clothing. Ensure good ventilation/exhaustion at the workplace. Take precautionary measures against electrostatic discharge. Avoid temperature above 300 °C. - Potentially violent decomposition can occur above 350 °C.
<b>Storage</b>	Store in a cool, dry, well-ventilated place. Keep containers tightly closed. Keep away from heat and sources of ignition. Protect from direct sunlight. Keep away from incompatible materials (amines, acids, alkalis and oxidising agents).
<b>Container</b>	Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	Contains no substances with occupational exposure limit values. DNELs, Workers: - Dermal (acute exposure, systemic effects): 8.33 mg/kg bw/day. - Inhalation (acute exposure, systemic effects): 12.25 mg/m <sup>3</sup> - Dermal (chronic exposure, systemic effects): 8.33 mg/kg bw/day. - Inhalation (chronic exposure, systemic effects): 12.25 mg/m <sup>3</sup> DNELs Consumers: - Dermal (acute exposure, systemic effects): 3.571 mg/kg bw/day. - Oral (acute exposure, systemic effects): 0.75 mg/kg bw/day. - Dermal (chronic exposure, systemic effects): 3.571 mg/kg bw/day. - Oral (chronic exposure, systemic effects): 0.75 mg/kg bw/day.
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	Predicted No Effect Concentrations (PNECs): - Freshwater: 0.006 mg/l (with assessment factor of 50). - Marine water: 0.0006 mg/l (with assessment factor of 500). - Intermittent release: 0.018 mg/l (with assessment factor of 100). - Freshwater sediments: 0.996 mg/kg sediment dw - Marine sediments: 0.0996 mg/kg sediment dw - Soil: 0.196 mg/kg soil dw - Sewage treatment plant (STP): 10 mg/l (with assessment factor of 10).
<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>	- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Tightly sealed goggles/Safety glasses with side shields. - Hand protection: Wear protective gloves. The glove material has to be impermeable and resistant to the product/substance/preparation. Recommended: Butyl rubber (BR), Nitrile rubber (NBR), PVC, Neoprene or ethyl vinyl alcohol laminate (EVAL) gloves. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. The type of protective clothing must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Recommended: Protective suit.
<b>Special Hazards Precautions</b>	No information available.
<b>Work Hygienic Practices</b>	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Be sure to clean skin thoroughly after work and before breaks. Ensure that washing facilities are available at the work place.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odour</b>	Mild
<b>Colour</b>	Light yellow
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	4.6 E-8 Pa (@ 25 °C)
<b>Relative Vapour Density</b>	<1 g/cm <sup>3</sup> Air = 1
<b>Boiling Point</b>	320 °C
<b>Melting Point</b>	-16 °C (@ 1013 hPa)
<b>Freezing Point</b>	-16 °C
<b>Solubility</b>	6.9 mg/l water 20°C
<b>Specific Gravity</b>	No Data Available
<b>Flash Point</b>	266 °C (@ 1013 hPa)
<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>	1.16 - 1.18 g/cm <sup>3</sup> [ASTM D 4052]
<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>	LogPow = 3.242
<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>	25 °C
<b>Viscosity</b>	7,000 - 10,000 cps (BE-186 Series) - 11,000 - 15,000 cps (BE-188 Series) (@ 25 °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>	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>	May burn but does not ignite readily.
<b>Reactions That Release Gases or Vapours</b>	Fire may produce irritating and/or toxic fumes: Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Phenols.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	This product is stable under the recommended uses and storage conditions.
<b>Conditions to Avoid</b>	Avoid temperatures above 300 °C - Potentially violent decomposition can occur above 350 °C.
<b>Materials to Avoid</b>	Possibility of hazardous reactions with: amines, acids, alkalis and oxidising agents.
<b>Hazardous Decomposition Products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Phenols.
<b>Hazardous Polymerisation</b>	Masses of more than one pound (0.5 kg) of product plus an aliphatic amine will cause irreversible polymerisation with considerable heat build-up.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	<p>Acute toxicity: Low acute toxicity based on results from animal tests following oral and dermal exposure.</p> <p>Skin corrosion/irritation: Causes skin irritation (Rabbit) [OECD 404].</p> <p>Eye damage/irritation: Causes serious eye irritation (Rabbit) [OECD 405].</p> <p>Respiratory/skin sensitisation: May cause an allergic skin reaction (Mouse, Local Lymph Node Assay) [OECD 429].</p> <p>Germ cell mutagenicity: Not classified, based on available data.</p> <p>Carcinogenicity: Not classified, based on available data.</p> <p>Reproductive toxicity: Not classified, based on available data.</p> <p>STOT - single exposure: Not classified, based on available data.</p> <p>STOT - repeated exposure: Not classified, based on available data.</p> <p>Aspiration toxicity: Not classified, based on available data.</p>
<b>Acute</b>	
<b>Ingestion</b>	<p>Acute toxicity - Oral:</p> <ul style="list-style-type: none"> <li>- LD50, Rat: &gt;2,000 mg/kg</li> </ul>
<b>Other</b>	<p>Acute toxicity - Dermal:</p> <ul style="list-style-type: none"> <li>- LD50, Rat: &gt;2,000 mg/kg</li> </ul>
<b>Carcinogen Category</b>	None

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<p>Aquatic toxicity:</p> <ul style="list-style-type: none"> <li>- LC50, fish (semi-static): 1.2 mg/l (96 h) [EPA-660/3-75-009].</li> <li>- LC50, invertebrate (static): 2.7 mg/l (48 h) [EPA-660/3-75-009].</li> <li>- EC50, algae (static): 9.4 mg/l (48 h) [EPA-660/3-75-009].</li> <li>- IC50, microorganism (static): &gt;100 mg/l (3 h).</li> <li>- NOEC, invertebrate (semi-static): 0.3 mg/l (21 d) [OECD 211].</li> <li>- NOEC, algae (static): 4.2 mg/l (72 h) [EPA-660/3-75-009].</li> </ul>
<b>Persistence/Degradability</b>	<p>NOT easily biodegradable.</p> <ul style="list-style-type: none"> <li>- Degradation: 12 % (28 d) [OECD 302B].</li> <li>- Rate of hydrolysis: 117 hr @ 25 °C [OECD 211].</li> </ul>
<b>Mobility</b>	<ul style="list-style-type: none"> <li>- Partition coefficient, soil, organic carbon/water (K<sub>oc</sub>): 445 at 20 °C</li> </ul>
<b>Environmental Fate</b>	<p>Toxic to aquatic life with long lasting effects - Avoid release to the environment; Collect spillage. Hazardous for water</p> <ul style="list-style-type: none"> <li>- Do not allow product to reach ground water, water course or sewage system.</li> </ul>
<b>Bioaccumulation Potential</b>	<ul style="list-style-type: none"> <li>- Bioconcentration factor (BCF): 31</li> <li>- Partition coefficient, n-octanol/water (log Pow): 3.242 @ 25 °C (est.)</li> </ul>
<b>Environmental Impact</b>	No Data Available

## 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	<p>Disposal must be made according to official regulations. Must NOT be disposed together with household garbage.</p> <p>Do NOT allow product to reach sewer system.</p>
<b>Special Precautions for Land Fill</b>	No information available.

## 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

<b>Proper Shipping Name</b>	Bisphenol A Epoxy Resin
<b>Class</b>	C2 Combustible Liquids - Flash Point >93°C, Closed Cup, Not Excluded Flammable
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	•3Z
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	AU01

### Land Transport (Malaysia)

ADR

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<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, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<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, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
<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>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<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, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

**National Transport Commission (Australia)**

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

<b>Dangerous Goods Classification</b>	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>	Schedule 5

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

<b>Approval Code</b>	HSR003180
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**National/Regional Inventories**

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Not Determined
<b>Canada (NDSL)</b>	Not Determined
<b>China (IECSC)</b>	Not Determined
<b>Europe (EINECS)</b>	Not Determined
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ENCS/METI)</b>	Not Determined



<b>Korea (KECI)</b>	Not Determined
<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Not Determined
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Not Determined
<b>USA (TSCA)</b>	Not Determined

## 16. OTHER INFORMATION

<b>Related Product Codes</b>	EPRESI1400, EPRESI1800, EPRESI2200, EPRESI2201, EPRESI2202, EPRESI2203, EPRESI2204, EPRESI2205, EPRESI2208, EPRESI2300, EPRESI2400, EPRESI2500, EPRESI2501, EPRESI2502, EPRESI2503, EPRESI2600, EPRESI2601, EPRESI2700, EPRESI2800, EPRESI2801, EPRESI2802, EPRESI2803, EPRESI2804, EPRESI2805, EPRESI2806, EPRESI3800, EPRESI3801, EPRESI3802, EPRESI8300, EPRESI8301, EPRESI8302, EPRESI8700, EPRESI8800, EPRESI8900, EPRESI9200, EPRESI9201, EPRESI9202
<b>Revision</b>	4
<b>Revision Date</b>	05 Jan 2017
<b>Reason for Issue</b>	updated sds
<b>Key/Legend</b>	<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>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 present.  <b>mm</b> Millimetre  <b>mmH<sub>2</sub>O</b> Millimetres of Water  <b>mPa.s</b> Millipascals per Second</p>

**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