



# SAFETY DATA SHEET ETHOXY PROPANOL REVISION 5, DATE 18 MAY 21

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Ethoxy Propanol</b>
<b>Other Names</b>	1-Ethoxy-2-propanol
<b>Uses</b>	Solvent for Industrial/Professional use.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>
<b>Chemical Name</b>	2-Propanol, 1-ethoxy-
<b>Product Description</b>	No Data Available

### 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** Flammable Liquids - Category 3  
 Serious Eye Damage/Irritation - Category 2A  
 Specific Target Organ Toxicity (Single Exposure) - Category 3

**Pictograms**

**Signal Word** Warning

**Hazard Statements**

<b>H226</b>	Flammable liquid and vapour.
<b>H319</b>	Causes serious eye irritation.
<b>H336</b>	May cause drowsiness or dizziness.

<b>Precautionary Statements</b>	Prevention	<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
		<b>P261</b>	Avoid breathing fumes/mists/vapours/spray.
		<b>P240</b>	Ground and bond container and receiving equipment.
		<b>P241</b>	Use explosion-proof electrical/ventilating/lighting and all other equipment.
		<b>P242</b>	Use non-sparking tools.
		<b>P243</b>	Take action to prevent static discharges.
		<b>P235</b>	Keep cool.
		<b>P271</b>	Use only outdoors or in a well-ventilated area.
	Response	<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.
		<b>P370 + P378</b>	In case of fire: Use carbon dioxide (CO2), dry chemical, alcohol resistant foam or water spray for extinction.
		<b>P337 + P313</b>	If eye irritation persists: Get medical advice.
		<b>P312</b>	Call a POISON CENTER or doctor if you feel unwell.
		<b>P303 + P361 + P353</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
		<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>P304 + P340</b>	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
	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** Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

## HSNO Classifications

Physical  
Hazards**3.1C**

Flammable liquid - medium hazard

Health Hazards **6.4A**

Substances that are irritating to the eye

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

Chemical Entity	Formula	CAS Number	Proportion
2-Propanol, 1-ethoxy-	C5H12O2	1569-02-4	<=100 %

## 4. FIRST AID MEASURES

## Description of necessary measures according to routes of exposure

## Swallowed

IF SWALLOWED: Rinse mouth with water. Do not induce vomiting. Get immediate medical advice/attention. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. 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 (or hair): Remove contaminated clothing and shoes immediately. Immediately flush skin and hair with running water for at least 15 minutes; Wash skin with soap and water. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

\*In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.

## Inhaled

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Inhalation may cause central nervous system effects! Call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

## Advice to Doctor

Show this safety data sheet (SDS) to the doctor in attendance. Treat symptomatically. Keep victim calm and warm. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Medical Conditions Aggravated by Exposure** No information available.

## 5. FIRE FIGHTING MEASURES

## General Measures

Evacuate area. Do not attempt to take action without suitable protective equipment. If safe to do so, move undamaged containers from fire area. Cool container with water spray until well after fire is out. Contain the extinguishing fluids by bunding.

## Flammability Conditions

FLAMMABLE LIQUID & VAPOUR: Will be easily ignited by heat, sparks or flames.

## Extinguishing Media

Use dry chemical, Carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam or water spray for extinction - Do not use straight streams. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient.

## Fire and Explosion Hazard

Risk of violent reaction or explosion! Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapour explosion hazard indoors, outdoors or in sewers. Containers may explode when heated. Many liquids are lighter than water.

## Hazardous Products of Combustion

Fire may produce irritating, corrosive and/or toxic gases, including Carbon oxides (CO, CO<sub>2</sub>), Organic compounds.

<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may cause pollution. Runoff to sewer may create fire or explosion hazard!
<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>	40 °C [ASTM D 93]
<b>Lower Explosion Limit</b>	1.3 %
<b>Upper Explosion Limit</b>	12 %
<b>Auto Ignition Temperature</b>	255 °C
<b>Hazchem Code</b>	•3Y

## 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used in handling the product must be earthed. Do not touch or walk through spilled material. Avoid breathing vapour/aerosol and contact with eyes, skin and clothing. *Ensure procedures and training for emergency decontamination and disposal are in place. Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.
<b>Clean Up Procedures</b>	Recover large spills by pumping (use an explosion proof or hand pump). Absorb small spillage or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal (see SECTION 13). *Use clean, non-sparking tools to collect absorbed material.
<b>Containment</b>	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike far ahead of large spill for later disposal. *A vapour-suppressing foam may be used to reduce vapours. Water spray may reduce vapour, but may not prevent ignition in closed spaces.
<b>Decontamination</b>	No information available.
<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. Evacuate personnel to a safe area. Keep unauthorised personnel away. Keep upwind and to higher ground.
<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 - Use only outdoors or in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/aerosols and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). FLAMMABLE LIQUID & VAPOUR: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Ground and bond container and receiving equipment. Use explosion-proof equipment and non-sparking tools. Take action to prevent static discharges. Avoid mixing with incompatible materials (see SECTION 10). Do not use compressed air for filling, discharging or handling.
<b>Storage</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed - After use replace the closing cap immediately. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep away from food/feedstuffs and incompatible materials (see SECTION 10). Keep in an area equipped with solvent-resistant flooring. Store locked up. *Product is hygroscopic. For prolonged storage, it is recommended to keep the product under a nitrogen atmosphere.
<b>Container</b>	Keep in the original container, Stainless steel or Steel. *Unsuitable material: Plastic articles; Butyl caoutchouc (butyl rubber); NR (natural rubber, natural latex); NBR (Nitrile rubber).

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>General</b>	Contains no substances with occupational exposure limit values. *DNEL/DMEL (workers): - Inhalation (Acute, systemic effects): 317 mg/m <sup>3</sup>
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	Predicted No Effect Concentrations (PNECs): - Water (Freshwater): 10 mg/l - Water (Marine): 1 mg/l - Sewage Treatment Plant (STP): 1,250 mg/l - Sediment (Freshwater): 37.6 mg/kg - Sediment (Marine water): 3.76 mg/kg - Soil: 2.4 mg/kg - Secondary poisoning: 142 mg/kg food
<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. *Use explosion-proof electrical/ventilating/lighting equipment.
<b>Personal Protection Equipment</b>	- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Filter type A (Organic vapour); The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Tightly fitting safety goggles. - Hand protection: Wear protective gloves. Recommended: Wear chemically resistant gloves, e.g. Butyl caoutchouc (butyl rubber), Neoprene, NBR (Nitrile rubber). - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Solvent-resistant protective clothing. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance(s) at the specific workplace.
<b>Special Hazards Precautions</b>	Avoid release to the environment. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time).
<b>Work Hygienic Practices</b>	Smoking, eating and drinking should be prohibited in the application area. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odour</b>	Characteristic, ether-like
<b>Colour</b>	Clear
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	1.2 Pa (@ 20 °C)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	136 °C
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	ca. -70 °C
<b>Solubility</b>	Completely miscible with water - Soluble in organic solvents
<b>Specific Gravity</b>	0.897
<b>Flash Point</b>	40 °C [ASTM D 93]
<b>Auto Ignition Temp</b>	255 °C
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available

Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	0.897 g/cm <sup>3</sup>
Specific Heat	No Data Available
Molecular Weight	104.1 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	<1
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	57.7 %
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	Risk of violent reaction or explosion!
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	FLAMMABLE LIQUID & VAPOUR: Will be easily ignited by heat, sparks or flames.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating, corrosive and/or toxic gases, including Carbon oxides (CO, CO <sub>2</sub> ), Organic compounds.
Release of Invisible Flammable Vapours and Gases	Vapours may form explosive mixtures with air.

## 10. STABILITY AND REACTIVITY

General Information	Product is hygroscopic. May react with oxygen to form explosive peroxides.
Chemical Stability	The product is stable under storage at normal ambient temperatures.
Conditions to Avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect from sunlight and exposure to air.
Materials to Avoid	Incompatible/reactive with strong oxidizing agents, atmospheric oxygen, acids and bases.
Hazardous Decomposition Products	Fire/decomposition may produce irritating, corrosive and/or toxic gases, including Carbon oxides (CO, CO <sub>2</sub> ), Organic compounds.
Hazardous Polymerisation	Hazardous polymerisation may occur upon depletion of inhibitor.

## 11. TOXICOLOGICAL INFORMATION

General Information	<ul style="list-style-type: none"><li>- Acute toxicity: Not classified (Based on available data, the classification criteria are not met). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.</li><li>- Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met). May cause redness and swelling of the skin. Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.</li></ul>
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- Eye damage/irritation: Causes serious eye irritation; erythema (redness).
- Respiratory/skin sensitisation: Not classified (Based on available data, the classification criteria are not met).
- Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met).
- Carcinogenicity: Not classified (Based on available data, the classification criteria are not met).
- Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met).
- STOT (single exposure): May cause drowsiness or dizziness (central nervous system effects); burning sensation, breathing difficulties, coughing. Possible effects include headache, dizziness, cramp, unconsciousness and death.
- STOT (repeated exposure): Not classified (Based on available data, the classification criteria are not met).
- Aspiration toxicity: Not classified (Based on available data, the classification criteria are not met).

**Acute**

<b>Ingestion</b>	Acute toxicity (Oral): - LD50, Rat: >5,000 mg/kg
<b>Other</b>	Acute toxicity (Dermal): - LD50, Rabbit: >5,000 mg/kg
<b>Inhalation</b>	Acute toxicity (Inhalation): - LC50, Rat: >10,000 ppm (4 h).
<b>Carcinogen Category</b>	None

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Aquatic toxicity: - LC50, Fish: >100 mg/l - LC50, Crustacea (Daphnia): >100 mg/l - EC50, Algae/aquatic plants: >100 mg/l
<b>Persistence/Degradability</b>	Readily biodegradable.
<b>Mobility</b>	The product is water soluble. Highly mobile in soils.
<b>Environmental Fate</b>	The product is not classified as dangerous for the environment.
<b>Bioaccumulation Potential</b>	The product has low potential for bioaccumulation.
<b>Environmental Impact</b>	No Data Available

**13. DISPOSAL CONSIDERATIONS**

<b>General Information</b>	If recycling is not possible, dispose of contents/container in accordance with local/regional/national regulations.
<b>Special Precautions for Land Fill</b>	Empty containers retain residue and can be dangerous. Do not burn, or use a cutting torch on, the empty drum. Do not puncture or incinerate.

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

ADG Code

<b>Proper Shipping Name</b>	ALCOHOLS, N.O.S. (1-Ethoxy-2-propanol)
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	14 Liquids - Highly Flammable
<b>UN Number</b>	1987

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<b>Hazchem</b>	•3Y
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (Malaysia)

ADR Code

<b>Proper Shipping Name</b>	ALCOHOLS N.O.S. (1-Ethoxy-2-propanol)
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	14 Liquids - Highly Flammable
<b>UN Number</b>	1987
<b>Hazchem</b>	•3Y
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (New Zealand)

NZS5433

<b>Proper Shipping Name</b>	ALCOHOLS, N.O.S. (1-Ethoxy-2-propanol)
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	14 Liquids - Highly Flammable
<b>UN Number</b>	1987
<b>Hazchem</b>	•3Y
<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>	ALCOHOLS, N.O.S. (1-Ethoxy-2-propanol)
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>ERG</b>	127 Flammable Liquids (Polar / Water-Miscible)
<b>UN Number</b>	1987
<b>Hazchem</b>	•3Y
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	ALCOHOLS, N.O.S. (1-Ethoxy-2-propanol)
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	1987
<b>Hazchem</b>	•3Y
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available
<b>EMS</b>	F-E, S-D
<b>Marine Pollutant</b>	No



Air Transport

IATA DGR

Proper Shipping Name	ALCOHOLS, N.O.S. (1-Ethoxy-2-propanol)
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
UN Number	1987
Hazchem	•3Y
Pack Group	III
Special Provision	No Data Available

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)
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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	HSR001218 (Reissued)
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National/Regional Inventories

Australia (AIIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	216-374-5
Europe (REACH)	01-2119462792-32-
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined

Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

## 16. OTHER INFORMATION

Related Product Codes	ETPROP0700, ETPROP1000, ETPROP1001, ETPROP1002, ETPROP1003, ETPROP1004, ETPROP1005, ETPROP1006, ETPROP1007, ETPROP3000, ETPROP4000, ETPROP9900
Revision	5
Revision Date	18 May 2021
Key/Legend	<p>&lt; Less Than &gt; Greater Than</p> <p><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</p>

**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