



# SAFETY DATA SHEET BENZYL ALCOHOL REVISION 5, DATE 01 NOV 22

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Benzyl Alcohol</b>
<b>Other Names</b>	Benzene carbinol; Hydroxytoluene; Phenylcarbinol; Phenylmethanol
<b>Uses</b>	Solvent; Photosensitive agent and other photo-chemicals; Flow improver; Laboratory chemical; Personal care products; Paints, coatings, inks; Viscosity adjuster.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	C <sub>7</sub> H <sub>8</sub> O
<b>Chemical Name</b>	Benzene methanol
<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	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)**

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 (Oral) - Category 4  
Acute Toxicity (Inhalation) - Category 4  
Serious Eye Damage/Irritation - Category 2A

**Pictograms**

**Signal Word** Warning

**Hazard Statements** **H302 + H332** Harmful if swallowed or if inhaled.  
**H319** Causes serious eye irritation.

<b>Precautionary Statements</b>	Prevention	<b>P261</b>	Avoid breathing mist/vapours/spray.
		<b>P280</b>	Wear eye protection/face protection.
		<b>P264</b>	Wash hands thoroughly after handling.
		<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>P312</b>	Call a POISON CENTER or doctor if you feel unwell.
		<b>P337 + P313</b>	If eye irritation persists: Get medical advice.
		<b>P330</b>	Rinse mouth.
		<b>P304 + P340</b>	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
	Disposal	<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>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

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



Chemical Entity	Formula	CAS Number	Proportion
Benzyl alcohol	C7H8O	100-51-6	<=100 %

#### 4. FIRST AID MEASURES

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

<b>Swallowed</b>	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Call a Poison Centre or doctor/physician for advice. 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.
<b>Eye</b>	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.
<b>Skin</b>	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
<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. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
<b>Advice to Doctor</b>	Treat symptomatically. *Most important symptoms and effects, both acute and delayed: Harmful if swallowed and if inhaled. Causes serious eye irritation.
<b>Medical Conditions Aggravated by Exposure</b>	Sensitization to benzyl alcohol occurs very rarely, mainly in patients with stasis dermatitis.

#### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. Dike fire-control water for later disposal.
<b>Flammability Conditions</b>	Combustible liquid; May burn but does not ignite readily.
<b>Extinguishing Media</b>	Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction. Do not scatter spilled material with high-pressure water streams.
<b>Fire and Explosion Hazard</b>	When heated, vapours may form explosive mixtures with air! Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapours may travel to source of ignition and flash back. Containers may explode when heated.
<b>Hazardous Products of Combustion</b>	Fire may produce irritating and/or toxic gases, including Carbon oxides.
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may cause pollution.
<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>	100.4 °C [Closed cup]
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	436 °C
<b>Hazchem Code</b>	No Data Available

#### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid
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	breathing vapours and contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	Absorb with earth, sand or other non-combustible material and transfer to a suitable, properly labelled container for disposal (see SECTION 13).
<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.
<b>Decontamination</b>	Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.
<b>Environmental Precautionary Measures</b>	Prevent entry into drains and waterways. Inform respective authorities in case of seepage into watercourse, soil, sewage systems or the environment.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Evacuate personnel to safe areas. Keep unauthorised/unprotected personnel away.
<b>Personal Precautionary Measures</b>	Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

<b>Handling</b>	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Combustible liquid: Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharges. Ground and bond container and receiving equipment.
<b>Storage</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid exposure to air. Protect from light. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10).
<b>Container</b>	Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No specific exposure standards are available for this product.
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available.
<b>Engineering Measures</b>	<p>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.</p> <p>*Use explosion-proof electrical/ventilating/lighting equipment.</p>
<b>Personal Protection Equipment</b>	<ul style="list-style-type: none"><li>- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapour/particulate respirator (refer to AS/NZS 1715 &amp; 1716).</li><li>- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical goggles.</li><li>- Hand protection: Handle with gloves. Recommended: Impervious gloves.</li><li>- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, Protective shoes or boots.</li></ul>
<b>Special Hazards Precautions</b>	No information available.
<b>Work Hygienic Practices</b>	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling, before breaks and at the end of work. Take off contaminated clothing and wash it before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Odour</b>	Slight, aromatic



<b>Colour</b>	Colourless
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	7 Pa (@ 20 °C)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	205.3 °C
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	-15.4 °C
<b>Solubility</b>	40 g/L in water - Easily soluble in alcohol, ether 25°C
<b>Specific Gravity</b>	1.045
<b>Flash Point</b>	100.4 °C [Closed cup]
<b>Auto Ignition Temp</b>	436 °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>	1.05 log P(o/w)
<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>	5.84 mPa.s (@ 20 °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/decomposition may produce irritating and/or toxic gases, including Carbon oxides.
<b>Release of Invisible Flammable Vapours and Gases</b>	When heated, vapours may form explosive mixtures with air!

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	Sensitive to air: Oxidation to Benzaldehyde.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from heat and sources of ignition. Avoid exposure to air. Avoid exposure to light.



<b>Materials to Avoid</b>	Incompatible/reactive with strong oxidising agents, acids, Aluminium, Iron.
<b>Hazardous Decomposition Products</b>	Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides.
<b>Hazardous Polymerisation</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### General Information

Information on toxicological effects:

- Acute toxicity: Harmful if swallowed or if inhaled. Benzyl alcohol is toxic to neonates and is associated with the gasping syndrome.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met. Not irritating (Rabbit) [OECD 404]. The chemical is reported to slightly irritate the skin in animal studies. The effects were not sufficient to warrant hazard classification [NICNAS].
- Serious eye damage/irritation: Causes serious eye irritation. Irritating (Rabbit) [OECD 405].
- Respiratory/skin sensitisation: Based on available data, the classification criteria are not met. Not sensitising (Mouse) [OECD 429]. While the chemical gave both positive and negative responses in animal studies, the maximisation test conducted was negative. No sensitisation has been reported with the chemical among workers who used it over several decades. Therefore, the weight of evidence approach would indicate that the chemical is not a skin sensitizer in humans [NICNAS].
- Germ cell mutagenicity: Based on available data, the classification criteria are not met. In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative [Supplier's SDS]. The weight of the evidence of the in vitro and in vivo genotoxicity data indicates that the chemical does not have mutagenic or clastogenic potential [NICNAS].
- Carcinogenicity: Based on available data, the classification criteria are not met. The available information indicates that the chemical is not likely to have carcinogenic potential [NICNAS].
- Reproductive toxicity: Based on available data, the classification criteria are not met. The chemical does not show specific reproductive or developmental toxicity [NICNAS].
- STOT (single exposure): Based on available data, the classification criteria are not met.
- STOT (repeated exposure): Based on available data, the classification criteria are not met. The chemical is not considered to cause serious damage to health from repeated oral exposure. Limited information indicates that the chemical is not likely to cause serious damage to health from repeated inhalation exposure [NICNAS].
- Aspiration toxicity: Based on available data, the classification criteria are not met.

Information on likely routes of exposure:

- Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Very high concentrations can result in toxic effects including respiratory failure, vasodilation, hypotension, convulsions, and paralysis.
- Eye contact: Causes serious eye irritation. May cause redness and tearing of the eyes.
- Skin contact: Causes mild skin irritation. Danger of cutaneous absorption.
- Inhalation: Harmful if inhaled.

Chronic effects: No information available.

### Acute

#### Ingestion

- Acute toxicity (Oral):
- LD50, Rat: 1,620 mg/kg bw. [Supplier's SDS].

#### Inhalation

- Acute toxicity (Inhalation):
- LC50, Rat: >4,178 mg/m<sup>3</sup> (4 h) [Supplier's SDS].

### Chronic

#### Reproduction

- Reproductive toxicity (Oral):
- Fertility, NOAEL (Rat): >750 mg/kg bw/day [Supplier's SDS].
  - Development, NOAEL (Rat): 175 mg/kg bw/day [Supplier's SDS].

#### Ingestion

- Repeated dose toxicity (Oral):
- NOAEL (Rat): 400 mg/kg bw/day [OECD 451; Supplier's SDS].

#### Inhalation

- Repeated dose toxicity (Inhalation):
- NOAEC (Rat): 1,072 mg/m<sup>3</sup> [OECD 412; Supplier's SDS].

### Carcinogen Category

None



**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Aquatic toxicity: - LC50, Fish (Pimephales promelas): 460 mg/L (96 h) [Supplier's SDS]. - EC50, Crustacea (Daphnia magna): 230 mg/L (48 h) [OECD 202; Supplier's SDS]. - EC50, Algae (Pseudokirchneriella subcapitata): 770 mg/L (72 h) [OECD 201; Supplier's SDS]. - NOEC, Crustacea (Daphnia magna): 51 mg/L (21 d) [OECD 211; Supplier's SDS].
<b>Persistence/Degradability</b>	Product is readily biodegradable.
<b>Mobility</b>	Koc: 15.7 (calculated).
<b>Environmental Fate</b>	Slightly hazardous to water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
<b>Bioaccumulation Potential</b>	The substance has low potential for bioaccumulation. *Bioconcentration factor (BCF): 1.37 (calculated).
<b>Environmental Impact</b>	No Data Available

**13. DISPOSAL CONSIDERATIONS**

<b>General Information</b>	Dispose of as hazardous waste in accordance with local/regional/national regulations. Do not dispose of with household waste. Do not empty into drains.
<b>Special Precautions for Land Fill</b>	Non-contaminated packages may be recycled.

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

ADG Code

<b>Proper Shipping Name</b>	Benzyl alcohol
<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>	Benzyl alcohol
<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



## SAFETY DATA SHEET BENZYL ALCOHOL REVISION 5, DATE 01 NOV 22

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

### Land Transport (New Zealand)

NZS5433

Proper Shipping Name	Benzyl alcohol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

### Land Transport (United States of America)

US DOT

Proper Shipping Name	Benzyl alcohol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

### Sea Transport

IMDG Code

Proper Shipping Name	Benzyl alcohol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.

### Air Transport

IATA DGR

Proper Shipping Name	Benzyl alcohol
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available



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

**National Transport Commission (Australia)**

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

Dangerous Goods Classification	NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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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	HSR001039
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**National/Regional Inventories**

Australia (AIIIC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Listed
China (IECSC)	Listed
Europe (EINECS)	202-859-9
Europe (REACH)	01-2119492630-38
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Listed
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Listed
USA (TSCA)	Listed



## 16. OTHER INFORMATION

## Related Product Codes

BEALCO0900, BEALCO0901, BEALCO0902, BEALCO0903, BEALCO0904, BEALCO0905, BEALCO0906, BEALCO0907, BEALCO0908, BEALCO0909, BEALCO0910, BEALCO0911, BEALCO0912, BEALCO0913, BEALCO0914, BEALCO0915, BEALCO0916, BEALCO1000, BEALCO1001, BEALCO1002, BEALCO1003, BEALCO1004, BEALCO1005, BEALCO1006, BEALCO1007, BEALCO1008, BEALCO1009, BEALCO1010, BEALCO1011, BEALCO1012, BEALCO1013, BEALCO1200, BEALCO1300, BEALCO1400, BEALCO1500, BEALCO1501, BEALCO1502, BEALCO1503, BEALCO2000, BEALCO2001, BEALCO2002, BEALCO2300, BEALCO2400, BEALCO2500, BEALCO2501, BEALCO2502, BEALCO2510, BEALCO2600, BEALCO2800, BEALCO3000, BEALCO3001, BEALCO3002, BEALCO3100, BEALCO3500, BEALCO3501, BEALCO3600, BEALCO4000, BEALCO4500, BEALCO5000, BEALCO5500, BEALCO6000, BEALCO6500, BEALCO6501, BEALCO6502, BEALCO6503, BEALCO6600, BEALCO6601, BEALCO6602, BEALCO7000, BEALCO7300, BEALCO7400, BEALCO7500, BEALCO7510, BEALCO7515, BEALCO7600, BEALCO8000, BEALCO9000, BEALCO9200, BEALCO9800, BEALCO9900

## Revision

5

## Revision Date

01 Nov 2022

## Key/Legend

&lt; Less Than

&gt; Greater Than

**AICS** Australian Inventory of Chemical Substances**atm** Atmosphere**CAS** Chemical Abstracts Service (Registry Number)**cm<sup>2</sup>** Square Centimetres**CO<sub>2</sub>** Carbon Dioxide**COD** Chemical Oxygen Demand**deg C (°C)** Degrees Celcius**EPA (New Zealand)** Environmental Protection Authority of New Zealand**deg F (°F)** Degrees Fahrenheit**g** Grams**g/cm<sup>3</sup>** Grams per Cubic Centimetre**g/l** Grams per Litre**HSNO** Hazardous Substance and New Organism**IDLH** Immediately Dangerous to Life and Health**immiscible** Liquids are insoluble in each other.**inHg** Inch of Mercury**inH<sub>2</sub>O** Inch of Water**K** Kelvin**kg** Kilogram**kg/m<sup>3</sup>** Kilograms per Cubic Metre**lb** Pound**LC<sub>50</sub>** 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.**LD<sub>50</sub>** 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.**ltr or L** Litre**m<sup>3</sup>** Cubic Metre**mbar** Millibar**mg** Milligram**mg/24H** Milligrams per 24 Hours**mg/kg** Milligrams per Kilogram**mg/m<sup>3</sup>** Milligrams per Cubic Metre**Misc or Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component 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