



SAFETY DATA SHEET METHYL ISOBUTYL CARBINOL REVISION 3, DATE 16 JUN 23

1. IDENTIFICATION

Product Name	Methyl Isobutyl Carbinol
Other Names	4-methylpentan-2-ol; Methylisobutyl carbinol; MIBC
Uses	Industrial solvent. Used in lubricants, in oil and gas field drilling and production operations, used in laboratories, in paints, in mining, functional fluids, polymer processing, coatings, for wafer cleaning in the electronics industry, as a solvent in coating products in semiconductor industry.
Chemical Family	No Data Available
Chemical Formula	C ₆ H ₁₄ O
Chemical Name	2-Pentanol, 4-methyl-
Product Description	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



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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

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

H335

May cause respiratory irritation.

AUH066

Repeated exposure may cause skin dryness or cracking

Precautionary Statements

Prevention

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P261

Avoid breathing mist/vapours/spray.

P240

Ground and bond container and receiving equipment.

P241

Use explosion-proof electrical/ventilating/lighting and all other equipment.

P242

Use non-sparking tools.

P243

Take action to prevent static discharges.

P271

Use only outdoors or in a well-ventilated area.

Response

P370 + P378

In case of fire: Alcohol resistant foam is the preferred fire-fighting medium but, if it is not available, normal foam can be used.

P337 + P313

If eye irritation persists: Get medical advice.

P312

Call a POISON CENTER or doctor if you feel unwell.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304 + P340

IF INHALED: Remove victim to fresh air and keep comfortable for breathing.

Storage

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

P403 + P235

Store in a well-ventilated place. Keep cool.

P405

Store locked up.

Disposal

P501

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

Health Hazards **6.1C**

Substances that are acutely toxic- Toxic

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Methylisobutyl carbinol	C6H14O	108-11-2	>=99 - 100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed

IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a Poison Centre or doctor/physician for advice. If vomiting occurs spontaneously, keep head below hips to 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.

*Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin

IF ON SKIN (or hair): Remove and isolate contaminated clothing and shoes. Immediately flush skin and hair with running water (and soap, if available) for at least 15 minutes. 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. Call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

Advice to Doctor

Treat symptomatically and supportively. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

*Most important symptoms and effects, both acute and delayed: Can cause central nervous system depression.

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness; Blood disorders; Dermatitis; Blurred vision.

Medical Conditions Aggravated by Exposure

Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

5. FIRE FIGHTING MEASURES

General Measures

Clear fire area of all non-emergency personnel. If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out - Beware of re-ignition!

Flammability Conditions

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

Extinguishing Media

Use dry chemical, Carbon dioxide (CO₂), foam or water spray for extinction - Do not use water jets. 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 will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas. Vapour explosion hazard indoors, outdoors or in sewers! Many liquids are lighter than water. Containers may explode when heated.
Hazardous Products of Combustion	Fire will produce irritating, corrosive and/or toxic gases, including Carbon oxides, organic vapours.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may cause pollution. Runoff to sewer may create fire or explosion hazard! Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	40.5 - 41 °C [Closed cup]
Lower Explosion Limit	1.0 %
Upper Explosion Limit	5.5 %
Auto Ignition Temperature	305 °C
Hazchem Code	•3Y

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	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. Clear spills immediately! Avoid breathing vapours and contact with eyes, skin and clothing.
Clean Up Procedures	Absorb or cover with dry earth, sand or other non-combustible material. Use clean, non-sparking tools to collect absorbed material and transfer to containers for disposal (see SECTION 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Dike far ahead of large spill for later disposal. *Vapour-suppressing foam may be used to control vapours. Water spray may reduce vapour, but may not prevent ignition in closed spaces.
Decontamination	Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.
Environmental Precautionary Measures	Spillages and decontamination runoff should be prevented from entering drains and watercourses. Local authorities should be advised if significant spillages cannot be contained.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep upwind and to higher ground. Keep unauthorised personnel away. *Large spill: Immediately contact Police or Fire Brigade; Consider initial downwind evacuation of areas within at least 300 m.
Personal Precautionary Measures	Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling	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 formation of aerosols. Prevent vapour accumulation. Avoid breathing mist/vapours 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/bond container and receiving equipment. Use explosion-proof equipment and non-sparking tools. Take precautionary measures against static discharge. Do NOT use compressed air for filling, discharging or handling operations.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up. Ensure that all local regulations regarding handling and storage facilities are followed.

Container

Keep in the original container or suitable material, i.e. Stainless steel; Carbon steel. Unsuitable material(s): Plastic materials; Aluminium if >50°C.

*Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**General**

For Methyl isobutyl carbinol (CAS No. 108-11-2):

- Safe Work Australia Exposure Standard: TWA = 25 ppm (104 mg/m³); STEL = 40 ppm (167 mg/m³); Absorption through the skin may be a significant source of exposure (Sk).
- New Zealand Workplace Exposure Standard [Next review 2023]: TWA = 25 ppm (104 mg/m³); STEL = 40 ppm (167 mg/m³); Skin absorption (skin).
- NIOSH REL: TWA = 25 ppm (100 mg/m³); STEL = 40 ppm (165 mg/m³) [skin].
- OSHA PEL: TWA = 25 ppm (100 mg/m³) [skin].
- Immediately dangerous to life or health (IDLH) concentration: 400 ppm.

Exposure Limits

No Data Available

Biological Limits

No information available.

Engineering Measures

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 an explosion proof exhaust ventilation system.

Personal Protection Equipment

- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Respirator with filter for organic vapour; Full-face supplied air respirator for high or unknown exposures (refer to AS/NZS 1715 & 1716).
 - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Tightly fitting safety goggles; Wear full face shield if splashes are likely to occur (refer to AS/NZS 1715 & 1716).
 - Hand protection: Wear protective gloves. Recommended: Impervious gloves, e.g. Butyl rubber; Nitrile rubber (refer to AS/NZS 2161.1).
 - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Choose body protection according to the amount and concentration of the hazardous substance(s) at the work place. For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure.
- *Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.

Special Hazards Precautions

The vapour is heavier than air. Beware of accumulation in pits and confined spaces.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Always wash hands after handling the material and before eating, drinking and/or smoking. Use clean, well-maintained personal protection equipment. Remove and wash contaminated clothing. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical State**

Liquid

Appearance

Clear liquid

Odour

Mild to pungent, alcohol-like

Colour

Colourless

pH

No Data Available

Vapour Pressure

0.42 kPa (@ 20 °C)

Relative Vapour Density

3.5 Air = 1

Boiling Point

131 - 133 °C

Melting Point

No Data Available

Freezing Point

-90 °C

Solubility	Moderately soluble in water (1.6% at 20°C)
Specific Gravity	0.805 - 0.810
Flash Point	40.5 - 41 °C [Closed cup]
Auto Ignition Temp	305 °C
Evaporation Rate	0.28 (nBuAc = 1)
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	102.17 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	1.68 log Kow (at 20°C)
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	5.2 mPa.s (@ 20 °C)
Volatile Percent	No Data Available
VOC Volume	No Data Available
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	CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient.
Properties That May Initiate or Contribute to Fire Intensity	FLAMMABLE LIQUID & VAPOUR: Will be easily ignited by heat, sparks or flames. May become electrostatically charged.
Reactions That Release Gases or Vapours	Fire/decomposition will produce irritating, corrosive and/or toxic gases, including Carbon oxides, organic vapours.
Release of Invisible Flammable Vapours and Gases	Vapours will form explosive mixtures with air. Vapour explosion hazard indoors, outdoors or in sewers!

10. STABILITY AND REACTIVITY

General Information	No hazardous reaction is expected when handled and stored according to provisions.
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Prevent vapour accumulation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharge.
Materials to Avoid	Incompatible/reactive with strong oxidising agents, acid catalysts ((sulphuric acid, hydrochloric acid, oxalic acid), Iodine, bases, Acetic anhydride, Hydrogen peroxide (concentrated solutions).
Hazardous Decomposition Products	Fire/decomposition will produce irritating, corrosive and/or toxic gases, including Carbon oxides, organic vapours.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION**General Information**

- Acute toxicity: May be harmful if swallowed and if inhaled. The chemical exhibited typical organic solvent effects in rats following acute inhalation exposure with anaesthetic effects occurring at high vapour concentrations.
- Skin corrosion/irritation: Can cause moderate skin irritation.
- Eye damage/irritation: Causes serious eye irritation.
- Respiratory/skin sensitisation: No sensitising effects known.
- Germ cell mutagenicity: Not considered to be genotoxic. Non mutagenic (Ames test).
- Carcinogenicity: Not considered to be carcinogenic. No indications for a carcinogenic potential.
- Reproductive toxicity: Not expected to be a specific reproductive or developmental toxin. No adverse effect on reproduction (Rat).
- STOT (single exposure): May cause respiratory irritation. Can cause central nervous system depression, Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
- STOT (repeated exposure): Following repeated application of the chemical, severe drying of the skin with some sloughing and cracking could occur.
- Aspiration toxicity: No information available.

Acute**Ingestion**

- Acute toxicity (Oral):
- LD50, Rat: 2,590 mg/kg bw. [Supplier's SDS].
 - LD50, Rat: 2,950 mg/kg bw. [Supplier's SDS].

Other

- Acute toxicity (Dermal):
- LD50, Rabbit: 2,870 mg/kg bw. [Supplier's SDS].
 - LD50, Rabbit: >3,870 ml/kg bw. [Supplier's SDS].

Inhalation

- Acute toxicity (Inhalation):
- LC50, Rat: 16 mg/L (4 h) [Supplier's SDS].
 - LC50, Rat (male/female): >16,000 mg/m³ (4 h) [ECHA].
- *One female rat exposed to 16,000 mg/m³ died at termination of exposure.

Carcinogen Category

None

12. ECOLOGICAL INFORMATION**Ecotoxicity**

- Aquatic toxicity:
- LC50, Fish (Pimephales promelas): 92.4 mg/L (96 h) [Supplier's SDS].
 - EC50, Crustacea (Daphnia magna): 337 mg/L (48 h) [Supplier's SDS].
 - ErC50, Algae/aquatic plants (Pseudokirchneriella subcapitata): 334 mg/L (96 h) [Supplier's SDS].
- Toxicity to microorganisms:
- EC50, Sewage (domestic): >100 mg/L (3 h) [Supplier's SDS].

Persistence/Degradability

Readily biodegradable (85 %, 28 d) [Supplier's SDS].

Mobility

Very low potential for geo-accumulation.

*log K_{oc}: <3

Environmental Fate

Harmful to aquatic life - Discharge into environment must be avoided.

Bioaccumulation Potential

Very low potential for bioaccumulation.

*Bioconcentration factor: 0.5

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS**General Information**

Recover or recycle, if possible. Waste product should not be allowed to contaminate soil or water. Disposal should be in accordance with applicable regional, national, and local laws and regulations. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

*It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.

Special Precautions for Land Fill

Contaminated packaging: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code	
Proper Shipping Name	METHYL ISOBUTYL CARBINOL
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
EPG	17 Liquids - Flammable, Toxic
UN Number	2053
Hazchem	•3Y
Pack Group	III
Special Provision	No Data Available

Land Transport (Malaysia)

ADR Code	
Proper Shipping Name	METHYL ISOBUTYL CARBINOL
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
EPG	17 Liquids - Flammable, Toxic
UN Number	2053
Hazchem	•3Y
Pack Group	III
Special Provision	No Data Available

Land Transport (New Zealand)

NZS5433	
Proper Shipping Name	METHYL ISOBUTYL CARBINOL
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
EPG	17 Liquids - Flammable, Toxic
UN Number	2053
Hazchem	•3Y
Pack Group	III
Special Provision	No Data Available

Land Transport (United States of America)

US DOT	
Proper Shipping Name	METHYL ISOBUTYL CARBINOL
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
ERG	129 Flammable Liquids (Polar / Water-Miscible / Noxious)

UN Number	2053
Hazchem	•3Y
Pack Group	III
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	METHYL ISOBUTYL CARBINOL
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
UN Number	2053
Hazchem	•3Y
Pack Group	III
Special Provision	No Data Available
EMS	F-E, S-D
Marine Pollutant	No

Air Transport

IATA DGR

Proper Shipping Name	METHYL ISOBUTYL CARBINOL
Class	3 Flammable Liquids
Subsidiary Risk(s)	No Data Available
UN Number	2053
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	HSR001193
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National/Regional Inventories

Australia (AIIIC)	Listed
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Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	203-551-7
Europe (REACH)	Not Determined
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	MEISCA1015, MEISCA1020, MEISCA1025, MEISCA1030, MEISCA1035, MEISCA1040, MEISCA1041, MEISCA1044, MEISCA1048, MEISCA1049, MEISCA1053, MEISCA1054, MEISCA1057, MEISCA1070, MEISCA1400, MEISCA1410, MEISCA1420, MEISCA1500, MEISCA1510, MEISCA1520, MEISCA2010, MEISCA2020, MEISCA2095, MEISCA7000, MEISCA7010, MEISCA8300, MEISCA8310, MEISCA8320
Revision	3
Revision Date	16 Jun 2023
Reason for Issue	Updated SDS
Key/Legend	<p>< Less Than</p> <p>> Greater Than</p> <p>AICS Australian Inventory of Chemical Substances</p> <p>atm Atmosphere</p> <p>CAS Chemical Abstracts Service (Registry Number)</p> <p>cm² Square Centimetres</p> <p>CO₂ Carbon Dioxide</p> <p>COD Chemical Oxygen Demand</p> <p>deg C (°C) Degrees Celcius</p> <p>EPA (New Zealand) Environmental Protection Authority of New Zealand</p> <p>deg F (°F) Degrees Farenheit</p> <p>g Grams</p> <p>g/cm³ Grams per Cubic Centimetre</p> <p>g/l Grams per Litre</p> <p>HSNO Hazardous Substance and New Organism</p> <p>IDLH Immediately Dangerous to Life and Health</p> <p>immiscible Liquids are insoluable in each other.</p> <p>inHg Inch of Mercury</p> <p>inH₂O Inch of Water</p> <p>K Kelvin</p> <p>kg Kilogram</p>

kg/m³ Kilograms per Cubic Metre

lb Pound

LC50 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.

LD50 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.

ltr or **L** Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH₂O 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