

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Perchloroethylene</b>
<b>Other Names</b>	1,1,2,2-Tetrachloroethylene; Ethene, Tetrachloro-; Ethylene tetrachloride; PCE; Tetrachloroethylene
<b>Uses</b>	Manufacture of substance, Use of substance as intermediate, Use in cleaning agents, Distribution of substance, Formulation & (re)packing of substances and mixtures, Heat transfer fluid.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	C <sub>2</sub> Cl <sub>4</sub>
<b>Chemical Name</b>	Perchloroethylene
<b>Product Description</b>	No Data Available

### 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)** 6

### 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>	Carcinogenicity - Category 2 Long-term Hazard To The Aquatic Environment - Category 2 Acute Toxicity (Oral) - Category 5 Acute Toxicity (Inhalation) - Category 4 Skin Corrosion/Irritation - Category 2 Serious Eye Damage/Irritation - Category 2A Specific Target Organ Toxicity (Repeated Exposure) - Category 2

**Pictograms**



**Signal Word** Warning

<b>Hazard Statements</b>	<b>H303</b>	May be harmful if swallowed.
	<b>H315</b>	Causes skin irritation.
	<b>H319</b>	Causes serious eye irritation.
	<b>H332</b>	Harmful if inhaled.
	<b>H351</b>	Suspected of causing cancer.
	<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
	<b>H411</b>	Toxic to aquatic life with long lasting effects.

<b>Precautionary Statements</b>	Prevention	<b>P201</b>	Obtain special instructions before use.	
		<b>P202</b>	Do not handle until all safety precautions have been read and understood.	
		<b>P260</b>	Do not breathe fume/gas/mist/vapours/spray.	
		<b>P264</b>	Wash ... thoroughly after handling.	
		<b>P271</b>	Use only outdoors or in a well-ventilated area.	
		<b>P273</b>	Avoid release to the environment.	
		<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.	
		Response	<b>P302 + P352</b>	IF ON SKIN: Wash with plenty of soap and water.
			<b>P304 + P340</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
			<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>P308 + P313</b>	IF exposed or concerned: Get medical advice/ attention.
			<b>P332 + P313</b>	If skin irritation occurs: Get medical advice/attention.
			<b>P337 + P313</b>	If eye irritation persists: Get medical advice/attention.
			<b>P362</b>	Take off contaminated clothing and wash before reuse.
Storage	<b>P391</b>	Collect spillage.		
	<b>P405</b>	Store locked up.		
Disposal	<b>P501</b>	Dispose of contents/container in accordance with local / regional / national / international regulations.		

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

<b>HSNO Classifications</b>	Health Hazards	<b>6.1E</b>	Substances that are acutely toxic –May be harmful, Aspiration hazard
		<b>6.3A</b>	Substances that are irritating to the skin
		<b>6.4A</b>	Substances that are irritating to the eye

	<b>6.7A</b>	Substances that are known or presumed human carcinogens
	<b>6.9B</b>	Substances that are harmful to human target organs or systems
Environmental Hazards	<b>9.1A</b>	Substances that are very ecotoxic in the aquatic environment
	<b>9.3B</b>	Substances that are ecotoxic to terrestrial vertebrates
	<b>9.1B</b>	Substances that are ecotoxic in the aquatic environment
	<b>9.2C</b>	Substances that are harmful in the soil environment

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Tetrachloroethylene	No Data Available	127-18-4	100.0 %

### 4. FIRST AID MEASURES

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

<b>Swallowed</b>	General Information: Remove affected person from source of contamination. General first aid, rest, warmth and fresh air. Place unconscious person on the side in the recovery position and ensure breathing can take place.  DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention immediately!
<b>Eye</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.
<b>Skin</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Inhaled</b>	Remove victim immediately from source of exposure. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues. Perform artificial respiration if breathing has stopped.
<b>Advice to Doctor</b>	Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
<b>Medical Conditions Aggravated by Exposure</b>	No information available on medical conditions aggravated by exposure to this product.

### 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	Avoid breathing fire vapours. Keep run-off water out of sewers and water sources. Dike for water control. Keep people away. Isolate fire and deny unnecessary entry.
<b>Flammability Conditions</b>	Product is a non-flammable liquid.
<b>Extinguishing Media</b>	Use fire-extinguishing media appropriate for surrounding materials. Use water to keep fire exposed containers cool and disperse vapours. Do not use water jet as an extinguisher, as this will spread the fire. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.
<b>Hazardous Products of Combustion</b>	Hydrogen chloride (HCl). Phosgene (COCl <sub>2</sub> ).
<b>Special Fire Fighting Instructions</b>	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
<b>Personal Protective Equipment</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit.
<b>Flash Point</b>	No Data Available

<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>	2Z

## 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Avoid accidents, clean up immediately. Slippery when spilt. Personnel involved in the clean up should wear full protective clothing as listed in section 8. Eliminate all sources of ignition. Increase ventilation. Use clean, non-sparking tools and equipment.
<b>Clean Up Procedures</b>	Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect the material and transfer to a suitable, labelled chemical waste container and dispose of promptly as hazardous waste.
<b>Containment</b>	Stop leak if safe to do so.
<b>Environmental Precautionary Measures</b>	Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Authority.
<b>Evacuation Criteria</b>	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.
<b>Personal Precautionary Measures</b>	Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing as listed in section 8.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Do not use in confined spaces without adequate ventilation and/or respirator. Avoid inhalation of vapours/spray and contact with skin and eyes. Do not swallow. Container must be kept tightly closed. Provide good ventilation. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.
<b>Storage</b>	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep away from heat, sparks and open flame. Keep out of direct sunlight. This product has a UN classification of 1897 and a Dangerous Goods Class 6.1 (Toxic) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
<b>Container</b>	Container type/package must comply with all applicable local legislation. Store in original packaging as approved by manufacturer. Unsuitable containers: aluminium.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	The following exposure standard has been established by The Australian Safety and Compensation Council (ASCC); Tetrachloroethylene CAS 127-18-4: TWA = 50ppm (340mg/m <sup>3</sup> ) STEL = 150ppm (1020mg/m <sup>3</sup> ) NOTE: The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available on biological limit values for this product.
<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. Adequate ventilation should be provided so that exposure limits are not exceeded.
<b>Personal Protection Equipment</b>	RESPIRATOR: If ventilation is insufficient, suitable respiratory protection must be provided. Chemical respirator with organic vapour cartridge (AS1715/1716). EYES: Wear approved safety goggles (AS1336/1337).

HANDS: The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. When prolonged or repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes) is recommended (AS2161).

CLOTHING: Chemical-resistant coveralls, an apron and safety footwear (AS3765/2210).

#### Work Hygienic Practices

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. DO NOT SMOKE IN WORK AREA!

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odour</b>	Chlorinated hydrocarbons.
<b>Colour</b>	Colourless
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	2.5 kPa (@ 25 °C)
<b>Relative Vapour Density</b>	5.8 Air = 1
<b>Boiling Point</b>	121 °C 760 mmHg
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	-22 °C
<b>Solubility</b>	0.015 g/100g Water 20°C
<b>Specific Gravity</b>	1.619
<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temp</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	1631 Kg/m <sup>3</sup>
<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>	166 g/mol
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	2.53
<b>Saturated Vapour Concentration</b>	No Data Available
<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	0.52 cSt (@ 25 °C)
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	Solubility: Slightly soluble in water. Soluble in: Organic solvents. Volatility Description: Volatile. Critical Temperature (deg C): 347
<b>Potential for Dust Explosion</b>	Product is a liquid.
<b>Fast or Intensely Burning Characteristics</b>	No Data Available
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No Data Available
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No Data Available
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	No Data Available

**Reactions That Release Gases or Vapours** No Data Available

**Release of Invisible Flammable Vapours and Gases** No Data Available

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal temperature conditions and recommended use.

**Conditions to Avoid** Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

**Materials to Avoid** Strong oxidising substances. Strong reducing agents. Avoid contact with metals such as: zinc powders, aluminium powders, magnesium powders, potassium, sodium Amines.

**Hazardous Decomposition Products** Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>).

**Hazardous Polymerisation** No specific reactivity hazards associated with this product. Will not polymerise.

## 11. TOXICOLOGICAL INFORMATION

**General Information** Oral LD50 Rat: >3000 mg/Kg  
Dermal LD50 Rabbits: >10000 mg/Kg

Inhalation LC50 Rats/4hr: >20 mg/L - There is no evidence that the material can lead to respiratory hypersensitivity. Has demonstrated the potential for contact allergy in mice  
Negative.  
Negative.  
This substance has been shown to increase the incidence of tumors in certain strains of mice and rats. Other long-term inhalation studies in rats failed to show tumorigenic response. Human data are limited and have not established an association between exposure and cancer. Has been toxic to the fetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals. In humans, effects have been reported on the following organs: central nervous system. In animals, effects have been reported on the following organs: central nervous system, kidney, liver. Observations in animals include anesthetic or narcotic effects. Based on physical properties, not likely to be an aspiration hazard.

General Information:  
Known or suspected carcinogen for humans.

Health Warnings:  
Anaesthetic in high concentrations.

Route of entry:  
Ingestion. Inhalation.

**EyeIrritant** May cause temporary eye irritation.

**Ingestion** Gastrointestinal symptoms, including upset stomach. Nausea, vomiting. Central nervous system depression.

**Inhalation** Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness; nausea or vomiting; headache; unconsciousness.

**SkinIrritant** Irritating to skin. May cause sensitisation by skin contact. Skin irritation. Mild dermatitis, allergic skin rash.

**Carcinogen Category** 3

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Fish (Onchorhynchus mykiss (Rainbow trout)) LC50/96hr: 5mg/L  
Aquatic Invertebrates (Daphnia magna) EC50/48hr: 8.5mg/L  
Aquatic Plants (Chlamydomonas reinhardtii) EC50/72hr: 3.64mg/L  
Microorganisms (Nitrosomonas ) EC50/24hr: 112mg/L

Not Classified as PBT/vPvB by current EU criteria.

<b>Persistence/Degradability</b>	The product is not readily biodegradable.
<b>Mobility</b>	Adsorption/Desorption: Soil Koc ~ 141 Coefficient Henry's Law Constant 2.11 Pa m <sup>3</sup> /mol
<b>Environmental Fate</b>	Do NOT let product reach waterways, drains and sewers.
<b>Bioaccumulation Potential</b>	Bioconcentration potential is low. Bioaccumulation Factor: BCF 49 Lepomis macrochirus (Bluegill) Partition Coefficient 2.53
<b>Environmental Impact</b>	No Data Available

### 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
<b>Special Precautions for Land Fill</b>	Contact a specialist disposal company or the local waste regulator for advice.

### 14. TRANSPORT INFORMATION

#### Land Transport (Australia)

ADG Code

<b>Proper Shipping Name</b>	TETRACHLOROETHYLENE
<b>Class</b>	6.1 Toxic and Infectious Substances - Toxic Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	37 Toxic And/Or Corrosive Substances Non-Combustible
<b>UN Number</b>	1897
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

#### Land Transport (Malaysia)

ADR

<b>Proper Shipping Name</b>	TETRACHLOROETHYLENE
<b>Class</b>	6.1 Toxic and Infectious Substances - Toxic Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	37 Toxic And/Or Corrosive Substances Non-Combustible
<b>UN Number</b>	1897
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

#### Land Transport (New Zealand)

NZS5433

<b>Proper Shipping Name</b>	TETRACHLOROETHYLENE
<b>Class</b>	6.1 Toxic and Infectious Substances - Toxic Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	37 Toxic And/Or Corrosive Substances Non-Combustible

<b>UN Number</b>	1897
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

#### Land Transport (United States of America)

US DOT

<b>Proper Shipping Name</b>	TETRACHLOROETHYLENE
<b>Class</b>	6.1 Toxic and Infectious Substances - Toxic Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>ERG</b>	160 Halogenated Solvents
<b>UN Number</b>	1897
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

#### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	TETRACHLOROETHYLENE
<b>Class</b>	6.1 Toxic and Infectious Substances - Toxic Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	1897
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available
<b>EMS</b>	FA,SA
<b>Marine Pollutant</b>	Yes

#### Air Transport

IATA DGR

<b>Proper Shipping Name</b>	TETRACHLOROETHYLENE
<b>Class</b>	6.1 Toxic and Infectious Substances - Toxic Substances
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	1897
<b>Hazchem</b>	2Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### 15. REGULATORY INFORMATION

<b>General Information</b>	No Data Available
<b>Poisons Schedule (Aust)</b>	6

#### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

<b>Approval Code</b>	HSR001551
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## National/Regional Inventories

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Listed
<b>Canada (NDSL)</b>	Not Determined
<b>China (IECSC)</b>	Listed
<b>Europe (EINECS)</b>	204-825-9
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ENCS/METI)</b>	Listed
<b>Korea (KECI)</b>	Listed
<b>Malaysia (EHS Register)</b>	Listed
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Listed
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Listed
<b>USA (TSCA)</b>	Listed

## 16. OTHER INFORMATION

**Related Product Codes** PECHLO0200, PECHLO0400, PECHLO0500, PECHLO0600, PECHLO0700, PECHLO0800, PECHLO0900, PECHLO0901, PECHLO0902, PECHLO1000, PECHLO1001, PECHLO1002, PECHLO1003, PECHLO1004, PECHLO1005, PECHLO1006, PECHLO1007, PECHLO1008, PECHLO1009, PECHLO1010, PECHLO1011, PECHLO1012, PECHLO1013, PECHLO1014, PECHLO1015, PECHLO1016, PECHLO1017, PECHLO1018, PECHLO1019, PECHLO1020, PECHLO1021, PECHLO1022, PECHLO1023, PECHLO1100, PECHLO1101, PECHLO1102, PECHLO1103, PECHLO1200, PECHLO1300, PECHLO1400, PECHLO1500, PECHLO1600, PECHLO1700, PECHLO1701, PECHLO1705, PECHLO1707, PECHLO1800, PECHLO1801, PECHLO1802, PECHLO1803, PECHLO1804, PECHLO1805, PECHLO1806, PECHLO1807, PECHLO1808, PECHLO1809, PECHLO1810, PECHLO1811, PECHLO1812, PECHLO1813, PECHLO1814, PECHLO1815, PECHLO1816, PECHLO1817, PECHLO1818, PECHLO1819, PECHLO1820, PECHLO1821, PECHLO1822, PECHLO1823, PECHLO1824, PECHLO1825, PECHLO1900, PECHLO2000, PECHLO2001, PECHLO2002, PECHLO2100, PECHLO2200, PECHLO2202, PECHLO2300, PECHLO2700, PECHLO3000, PECHLO3001, PECHLO3010, PECHLO3011, PECHLO3012, PECHLO3020, PECHLO3021, PECHLO3100, PECHLO4000, PECHLO5000, PECHLO6000, PECHLO7700, PECHLO8000, PECHLO9000, PECHLO9001

**Revision**

3

**Revision Date**

10 Feb 2016

**Key/Legend**

< Less Than

> 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