

1. IDENTIFICATION

Product Name	Caustic Soda Liquid
Other Names	Caustic soda solution; Sodium hydroxide solution
Uses	Chemical manufacture; cleaning/washing agents/additives; adhesives; flotation agents; pH regulation; solvent; water treatment; photochemical; reducing agent; hydraulic fracturing.
Chemical Family	No Data Available
Chemical Formula	NaOH.H2O
Chemical Name	Sodium hydroxide, aqueous solution
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

Poisons Schedule (Aust)

Schedule 6

Globally Harmonised System

Hazard Classification	Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)		
Hazard Categories	Corrosive to Metals - Category 1 Skin Corrosion/Irritation - Category 1A Serious Eye Damage/Irritation - Category 1		
Pictograms			
Signal Word	Danger		
Hazard Statements	H290	May be corrosive to metals.	
	H314	Causes severe skin burns and eye damage.	
Precautionary Statements	Prevention	P260	Do not breathe gas/mist/vapours/spray.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
	Response	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
		P304 + P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P310	Immediately call a POISON CENTER or doctor.
		P363	Wash contaminated clothing before reuse.
		P390	Absorb spillage to prevent material-damage.
	Storage	P405	Store locked up.
		P406	Store in corrosive resistant container with a resistant inner liner.
	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)

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
Sodium hydroxide	NaOH	1310-73-2	>=5 - <=51.5 %
Water	H2O	7732-18-5	Balance %

4. FIRST AID MEASURES**Description of necessary measures according to routes of exposure**

Swallowed	IF SWALLOWED: Rinse mouth, then drink 1 or 2 glasses of water. Do NOT induce vomiting. For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Never give anything by mouth to an unconscious person. Transport to hospital or doctor without delay!
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 flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes. Transport to hospital or doctor without delay! *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 for at least 20 minutes. Immediately call a Poison Centre or doctor/physician for advice. Wash contaminated clothing and shoes before reuse. Transport to hospital or doctor without delay! *For minor skin contact, avoid spreading material on unaffected skin.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately 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. Transport to hospital or doctor without delay!
Advice to Doctor	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: Causes severe skin burns and eye damage. Sodium hydroxide burns are not immediately painful; onset of pain may be delayed minutes or hours. Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. Symptoms of overexposure include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	Alert Fire Brigade and tell them location and nature of hazard. Move containers from fire area if you can do it without risk. Cool containers with water spray until well after fire is out. Do not get water inside containers.
Flammability Conditions	Non-combustible; substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
Extinguishing Media	If material is involved in a fire, use dry chemical, Carbon dioxide (CO ₂), foam or water spray for extinction. Dike fire-control water for later disposal; do not scatter the material.
Fire and Explosion Hazard	Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated.
Hazardous Products of Combustion	Fire may produce irritating, corrosive and/or toxic gases.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may be corrosive and/or toxic and cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing - It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Flash Point	No Data Available

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Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	2R

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). Do not touch or walk through spilled material. Clean up all spills immediately! Do not breathe mist/vapours and prevent contact with eyes, skin and clothing.
Clean Up Procedures	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for disposal (see SECTION 13).
Containment	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas.
Decontamination	After cleaning, flush away traces with water. *Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
Environmental Precautionary Measures	Prevent entry into drains and waterways. Local authorities should be advised if significant spillages cannot be contained.
Evacuation Criteria	Spill or leak area should be isolated immediately. Evacuate personnel to safe areas. Keep unauthorised personnel away. Keep upwind and to higher ground.
Personal Precautionary Measures	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (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. Do not breathe mist/vapours and prevent contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator (see SECTION 8). CORROSIVE TO METALS: Absorb spillage to prevent material damage (see SECTION 6).
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers securely sealed. Check regularly for spills and leaks. Keep away from heat and sources of ignition - No smoking. Keep away from food/feedstuffs and incompatible materials (see SECTION 10). Store locked up.
Container	Keep only in the original container or corrosive resistant container/container with a resistant inner liner. Do NOT use aluminium, galvanised or tin-plated containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	COMPONENT: Sodium hydroxide (CAS No. 1310-73-2): - Safe Work Australia Exposure Standard: TWA = 2 mg/m ³ Peak limitation - New Zealand Workplace Exposure Standard: Ceiling = 2 mg/m ³ - NIOSH REL/OSHA PEL: Ceiling = 2 mg/m ³ *Immediately dangerous to life or health (IDLH) concentration: 10 mg/m ³
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.
Personal Protection Equipment	- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Suitable mist

respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Tight sealing safety goggles and, if splashes are likely to occur, face protection shield.

- Hand protection: Wear protective gloves. Recommended: Elbow length impervious gloves, e.g. PVC.

- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Overalls, PVC Apron, Rubber boots. When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

Special Hazards Precautions Do not allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off immediately all contaminated clothing - Do NOT allow clothing wet with material to stay in contact with skin. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear to slightly turbid liquid
Odour	Odourless or slight odour
Colour	Colourless
pH	14 (as supplied)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	ca. 145 °C
Melting Point	No Data Available
Freezing Point	ca. 12 °C
Solubility	Miscible with water
Specific Gravity	1.48 - 1.52
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
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	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
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	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.

Fast or Intensely Burning Characteristics	No information available.
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	Non-combustible; substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating, corrosive and/or toxic gases.
Release of Invisible Flammable Vapours and Gases	Contact with metals may evolve flammable hydrogen gas.

10. STABILITY AND REACTIVITY

General Information	May be corrosive to metals.
Chemical Stability	Product is considered stable. *Unstable in the presence of incompatible materials.
Conditions to Avoid	Avoid contact with incompatible materials. Keep away from heat and sources of ignition.
Materials to Avoid	Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. Avoid contact with copper, aluminium and their alloys.
Hazardous Decomposition Products	Fire/decomposition may produce irritating, corrosive and/or toxic gases. Contact with metals may evolve flammable hydrogen gas. *Reacts with ammonium salts, evolving ammonia gas. Reacts readily with various reducing sugars to produce carbon monoxide.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	<p>Information on toxicological effects:</p> <ul style="list-style-type: none"> - Acute toxicity: Sodium hydroxide has low to moderate acute dermal toxicity; however, the effects are expected to be due to pH changes. - Skin corrosion/irritation: Causes severe skin burns and eye damage. - Eye damage/irritation: Causes serious eye damage. - Respiratory/skin sensitisation: Sodium hydroxide is not considered a skin sensitiser. - Germ cell mutagenicity: Both the in vitro and the in vivo genotoxicity tests indicate no evidence for a mutagenic activity. - Carcinogenicity: No information available. - Reproductive toxicity: No information available. - STOT (single exposure): May cause respiratory irritation. - STOT (repeated exposure): No information available. - Aspiration toxicity: No information available. <p>Information on likely routes of exposure:</p> <ul style="list-style-type: none"> - Ingestion: Ingestion of sodium hydroxide may result in severe burns to the mouth, throat and stomach, pain, nausea and vomiting, swelling of the larynx and subsequent suffocation, perforation of the gastro-intestinal tract. - Eye contact: Causes serious eye damage. Direct contact with alkaline corrosives may produce pain and burns. Oedema, destruction of the epithelium, corneal opacification and iritis may occur. - Skin contact: The material can produce severe chemical burns following direct contact with the skin. Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep. - Inhalation: Inhalation of alkaline corrosives may produce irritation of the respiratory tract with coughing, choking, pain and mucous membrane damage. Pulmonary oedema may develop in more severe cases; this may be immediate or in
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most cases following a latent period of 5-72 hours.

Chronic effects: Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue.

Acute

Other

Acute toxicity (Dermal):
COMPONENT: Sodium hydroxide (CAS No. 1310-73-2):
- LD50, Rabbit: 1,350 mg/kg [Supplier's SDS].

Carcinogen Category

None

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity:
COMPONENT: Sodium hydroxide (CAS No. 1310-73-2):
- LC50, Fish (*Oncorhynchus mykiss*): 45.4 mg/L (96 h) [Supplier's SDS].

Persistence/Degradability

Biodegradation is not an applicable endpoint since the product is an inorganic chemical.

Mobility

No information available.

Environmental Fate

Prevent entry into drains and waterways.

Bioaccumulation Potential

No information available.

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information

Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
EPG	37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number	1824
Hazchem	2R
Pack Group	II
Special Provision	No Data Available

Land Transport (Fiji)

ADG Code

Proper Shipping Name	SODIUM HYDROXIDE SOLUTION
Class	8 Corrosive Substances

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Subsidiary Risk(s) No Data Available
EPG 37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number 1824
Hazchem 2R
Pack Group II
Special Provision No Data Available

Land Transport (Malaysia)

ADR Code

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
EPG 37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number 1824
Hazchem 2R
Pack Group II
Special Provision No Data Available

Land Transport (New Caledonia)

ADG Code

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
EPG 37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number 1824
Hazchem 2R
Pack Group II
Special Provision No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
EPG 37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number 1824
Hazchem 2R
Pack Group II
Special Provision No Data Available

Land Transport (Papua New Guinea)

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
EPG 37 Toxic And/Or Corrosive Substances Non-Combustible
UN Number 1824
Hazchem 2R

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Pack Group II
Special Provision No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
ERG 154 Substances - Toxic and/or Corrosive (Non-Combustible)
UN Number 1824
Hazchem 2R
Pack Group II
Special Provision No Data Available

Sea Transport

IMDG Code

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
UN Number 1824
Hazchem 2R
Pack Group II
Special Provision No Data Available
EMS F-A, S-B
Marine Pollutant No

Air Transport

IATA DGR

Proper Shipping Name SODIUM HYDROXIDE SOLUTION
Class 8 Corrosive Substances
Subsidiary Risk(s) No Data Available
UN Number 1824
Hazchem 2R
Pack Group II
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)

15. REGULATORY INFORMATION

General Information SODIUM HYDROXIDE
Poisons Schedule (Aust) Schedule 6

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR001576

National/Regional Inventories

Australia (AIRC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	Listed
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Listed
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**

CAUBUL1000, CAUSOB0300, CAUSOB0301, CAUSOB0400, CAUSOB0600, CAUSOB0900, CAUSOB1000, CAUSOB1001, CAUSOB1002, CAUSOB1003, CAUSOB1004, CAUSOB1005, CAUSOB1006, CAUSOB1007, CAUSOB1008, CAUSOB1009, CAUSOB1010, CAUSOB1011, CAUSOB1012, CAUSOB2000, CAUSOB2001, CAUSOB2002, CAUSOB2003, CAUSOB2004, CAUSOB2010, CAUSOB2015, CAUSOB2200, CAUSOB2500, CAUSOB2501, CAUSOB2502, CAUSOB2503, CAUSOB2510, CAUSOB2511, CAUSOB2700, CAUSOB2701, CAUSOB2702, CAUSOB2800, CAUSOB3000, CAUSOB3001, CAUSOB3200, CAUSOB3201, CAUSOB3300, CAUSOB3301, CAUSOB3500, CAUSOB3600, CAUSOB4000, CAUSOB4500, CAUSOB4600, CAUSOB4900, CAUSOB4901, CAUSOB4902, CAUSOB4903, CAUSOB4904, CAUSOB5000, CAUSOB5001, CAUSOB5100, CAUSOB5500, CAUSOB6000, CAUSOB6001, CAUSOB7000, CAUSOB7500, CAUSOB7501, CAUSOB7502, CAUSOB7700, CAUSOB8000, CAUSOB9000, CAUSOB9100, CAUSOB9400, CAUSOC1000, CAUSOC1001, CAUSOC1002, CAUSOC1100, CAUSOC2450, CAUSOC2500, CAUSOC2501, CAUSOC3000, CAUSOD0500, CAUSOD0600, CAUSOD0601, CAUSOD0700, CAUSOD0800, CAUSOD0900, CAUSOD1000, CAUSOD1001, CAUSOD1002, CAUSOD1003, CAUSOD1004, CAUSOD1005, CAUSOD1006, CAUSOD1007, CAUSOD1010, CAUSOD1020, CAUSOD1030, CAUSOD1050, CAUSOD1100, CAUSOD1101, CAUSOD1200, CAUSOD1300, CAUSOD1400, CAUSOD1500, CAUSOD1600, CAUSOD1700, CAUSOD1701, CAUSOD1702, CAUSOD1703, CAUSOD1708, CAUSOD1720, CAUSOD1750, CAUSOD1760, CAUSOD1800, CAUSOD1801, CAUSOD1802, CAUSOD1803, CAUSOD1804, CAUSOD1805, CAUSOD1806, CAUSOD1807, CAUSOD1808, CAUSOD1809, CAUSOD1810, CAUSOD1811, CAUSOD1812, CAUSOD1813, CAUSOD1814, CAUSOD1815, CAUSOD1816, CAUSOD1817, CAUSOD1818, CAUSOD1819, CAUSOD1820, CAUSOD1821, CAUSOD1822, CAUSOD1823, CAUSOD1824, CAUSOD1825, CAUSOD1826,

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Revision	6
Revision Date	28 Nov 2023
Reason for Issue	Updated SDS
Key/Legend	< Less Than > Greater Than AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO₂ Carbon Dioxide COD Chemical Oxygen Demand deg C (°C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of New Zealand deg F (°F) Degrees Farenheit g Grams g/cm³ 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 insoluable in each other. inHg Inch of Mercury inH₂O Inch of Water K Kelvin

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kg Kilogram
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