



SAFETY DATA SHEET AMMONIUM CHLORIDE REVISION 4, DATE 15 JUL 19

1. IDENTIFICATION

Product Name	Ammonium Chloride
Other Names	Amchlor, Ammoneric; Ammonium muriate; Salmiac, Sal ammoniac
Uses	Industrial use.
Chemical Family	No Data Available
Chemical Formula	(NH ₄)Cl
Chemical Name	Ammonium chloride
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)

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
Serious Eye Damage/Irritation - Category 2A

Pictograms

Signal Word Warning

Hazard Statements **H302** Harmful if swallowed.
H319 Causes serious eye irritation.

Precautionary Statements	Prevention	P280	Wear eye protection/face protection.
		P270	Do not eat, drink or smoke when using this product.
		P264	Wash hands thoroughly after handling.
	Response	P337 + P313	If eye irritation persists: Get medical advice.
		P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
		P330	Rinse mouth.
Disposal	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
	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 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
Ammonium chloride	(NH ₄)Cl	12125-02-9	99 - 100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Call a Poison Centre or doctor/physician if you feel unwell. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Never give anything by mouth to an unconscious person.
Eye	IF IN EYES: Do not rub affected area! Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.
Advice to Doctor	Treat symptomatically.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of water until well after fire is out.
Flammability Conditions	Non-combustible; Material does not burn.
Extinguishing Media	If material is involved in a fire, use dry chemical, Carbon dioxide (CO ₂), foam or water spray for extinction.
Fire and Explosion Hazard	Gives off irritating or toxic fumes (or gases) in a fire.
Hazardous Products of Combustion	Fire or heat will produce irritating, corrosive and/or toxic gases, including Nitrogen oxides, ammonia, Hydrogen chloride.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Clean Up Procedures	Sweep up and shovel. Keep in suitable, closed 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	Wash away remainder with plenty of water.
Environmental Precautionary Measures	Discharge into the environment must be avoided. Do not let product enter drains.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
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. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust and aerosols. Avoid breathing dust/aerosols and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Take action to prevent static discharge.
Storage	Store in a cool, dry and well-ventilated place. Keep container tightly closed when not in use. Hygroscopic - Protect from moisture. Keep away from incompatible materials (see SECTION 10).
Container	Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	For Ammonium chloride (fume): - Safe Work Australia Exposure Standard: TWA = 10 mg/m ³ ; STEL = 20 mg/m ³ . - New Zealand WES: TWA = 10 mg/m ³ ; STEL = 20 mg/m ³ . - OSHA PEL/NIOSH REL: TWA = 10 mg/m ³ ; STEL = 20 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: Dust mask/respirator (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or goggles. - Hand protection: Handle with gloves. Recommended: Impervious gloves. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls, boots.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline powder, granules
Odour	Odourless
Colour	White
pH	4.0 - 5.8 (200 g/L @ 25°C)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	Decomposes
Melting Point	338 °C (decomposes)
Freezing Point	No Data Available
Solubility	Soluble in water
Specific Gravity	1.53
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	1.53 g/cm ³
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	Hygroscopic.
Potential for Dust Explosion	No information available.
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; Material does not burn.
Reactions That Release Gases or Vapours	Fire or heat will produce irritating, corrosive and/or toxic gases, including Nitrogen oxides, ammonia, Hydrogen chloride.
Release of Invisible Flammable Vapours and Gases	Reacts violently with ammonium nitrate and potassium chlorate causing fire and explosion hazard.

10. STABILITY AND REACTIVITY

General Information	The solution in water is a weak acid. Reacts violently with ammonium nitrate and potassium chlorate. This generates fire and explosion hazard.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	To avoid thermal decomposition, do not overheat. Protect from moisture.
Materials to Avoid	Incompatible/reactive with strong acids, strong bases, strong oxidizing agents, nitrites, nitrate compounds. Attacks copper and its compounds.
Hazardous Decomposition Products	Decomposes on heating. This produces toxic and irritating fumes (nitrogen oxides, ammonia and hydrogen chloride).
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	- Acute toxicity: Harmful if swallowed. Signs of toxicity reported in humans (at large doses) include nausea, vomiting, thirst, headaches, hyperventilation, progressive drowsiness, metabolic acidosis (the build-up of acid and hydrogen ions in
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the body) and hypokalaemia (potassium deficiency) [NICNAS].

- Skin corrosion/irritation: May cause skin irritation. Ammonium chloride was reported to not be irritating to the skin (Rabbits, 24 h) [NICNAS].

- Eye damage/irritation: Causes serious eye irritation.

- Respiratory/skin sensitisation: Ammonium chloride was not found to be sensitising to the skin (GPMT).

- Germ cell mutagenicity: The weight of evidence across the available studies indicates that Ammonium chloride is not genotoxic [NICNAS].

- Carcinogenicity: Ammonium chloride is not expected to be a carcinogen [NICNAS].

- Reproductive toxicity: Ammonium chloride is not expected to be a reproductive or developmental toxin [NICNAS].

- STOT (single exposure): Inhalation of dust or fume may cause respiratory irritation.

- STOT (repeated exposure): No information available.

- Aspiration toxicity: No information available.

Acute

Ingestion

Acute toxicity (Oral):

- LD50, Rat: 1,410 mg/kg [Supplier's SDS].

Carcinogen Category

None

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic toxicity:

- LC50, Fish (*Oncorhynchus mykiss*): 42.91 mg/L (96 h) [Supplier's SDS].

- EC50, Invertebrates (*Ceriodaphnia acanthina*): 98.5 mg/L (48 h) [Supplier's SDS].

*The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Persistence/Degradability

Inorganic product which cannot be eliminated from water by biological purification processes. Can be oxidized to nitrate, or reduced to nitrogen, by microorganisms.

Mobility

Adsorption to solid soil phase is possible.

Environmental Fate

Prevent entry into drains and waterways.

Bioaccumulation Potential

Accumulation in organisms is not to be expected.

Environmental Impact

No Data Available

13. DISPOSAL CONSIDERATIONS

General Information

Dispose of contents/container in accordance with local/regional/national regulations. The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing.

Special Precautions for Land Fill

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name

Ammonium Chloride

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 (Malaysia)

ADR Code

Proper Shipping Name	Ammonium Chloride
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 (Mexico)

NOMs

Proper Shipping Name	Ammonium Chloride
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 (New Zealand)

NZS5433

Proper Shipping Name	Ammonium Chloride
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	Ammonium Chloride
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	Ammonium Chloride
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	Ammonium Chloride
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 & 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	HSR002503 - Additives Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2020
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National/Regional Inventories

Australia (AIIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	235-186-4
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

AMCHLF1000, AMCHLF1001, AMCHLF1002, AMCHLF1003, AMCHLF1004, AMCHLF2000, AMCHLF3000, AMCHLF3010, AMCHLF4000, AMCHLF5000, AMCHLF5100, AMCHLF6000, AMCHLF6003, AMCHLF6004, AMCHLF6100, AMCHLF6200, AMCHLF6201, AMCHLF6500, AMCHLO0200, AMCHLO0300, AMCHLO0400, AMCHLO0401, AMCHLO0500, AMCHLO0501, AMCHLO0600, AMCHLO0700, AMCHLO0800, AMCHLO0900, AMCHLO1000, AMCHLO1001, AMCHLO1002, AMCHLO1003, AMCHLO1004, AMCHLO1005, AMCHLO1006, AMCHLO1007, AMCHLO1008, AMCHLO1009, AMCHLO1010, AMCHLO1011, AMCHLO1012, AMCHLO1013, AMCHLO1014, AMCHLO1015, AMCHLO1016, AMCHLO1017, AMCHLO1018, AMCHLO1019, AMCHLO1020, AMCHLO1021, AMCHLO1022, AMCHLO1023, AMCHLO1024, AMCHLO1025, AMCHLO1026, AMCHLO1027, AMCHLO1028, AMCHLO1029, AMCHLO1030, AMCHLO1031, AMCHLO1035, AMCHLO1036, AMCHLO1038, AMCHLO1039, AMCHLO1040, AMCHLO1043, AMCHLO1044, AMCHLO1045, AMCHLO1100, AMCHLO1101, AMCHLO1102, AMCHLO1200, AMCHLO1201, AMCHLO1202, AMCHLO1300, AMCHLO1301, AMCHLO1400, AMCHLO1401, AMCHLO1500, AMCHLO1501, AMCHLO1502, AMCHLO1503, AMCHLO1510, AMCHLO1511, AMCHLO1550, AMCHLO1600, AMCHLO1601, AMCHLO1602, AMCHLO1700, AMCHLO1701, AMCHLO1702, AMCHLO1710, AMCHLO1715, AMCHLO1717, AMCHLO1800, AMCHLO1801, AMCHLO1802, AMCHLO1803, AMCHLO1804, AMCHLO1805, AMCHLO1806, AMCHLO1807, AMCHLO1808, AMCHLO1809, AMCHLO1810, AMCHLO1811, AMCHLO1812, AMCHLO1813, AMCHLO1814, AMCHLO1815, AMCHLO1816, AMCHLO1900, AMCHLO1901, AMCHLO1902, AMCHLO1903, AMCHLO1904, AMCHLO2000, AMCHLO2001, AMCHLO2002, AMCHLO2003, AMCHLO2004, AMCHLO2005, AMCHLO2006, AMCHLO2007, AMCHLO2008, AMCHLO2009, AMCHLO2010, AMCHLO2011, AMCHLO2012, AMCHLO2013, AMCHLO2014, AMCHLO2015, AMCHLO2016, AMCHLO2017, AMCHLO2018, AMCHLO2019, AMCHLO2020, AMCHLO2021, AMCHLO2022, AMCHLO2023, AMCHLO2100, AMCHLO2101, AMCHLO2200, AMCHLO2300, AMCHLO2301, AMCHLO2302, AMCHLO2303, AMCHLO2304, AMCHLO2305, AMCHLO2400, AMCHLO2500, AMCHLO2501, AMCHLO2502, AMCHLO2503, AMCHLO2504, AMCHLO2505, AMCHLO2506, AMCHLO2600, AMCHLO2700, AMCHLO2800, AMCHLO2900, AMCHLO3000, AMCHLO3001, AMCHLO3010, AMCHLO3100, AMCHLO3200, AMCHLO3300, AMCHLO3400, AMCHLO3500, AMCHLO3501, AMCHLO3502, AMCHLO3600, AMCHLO3700, AMCHLO3800, AMCHLO3900, AMCHLO4000, AMCHLO4001, AMCHLO4002, AMCHLO4003, AMCHLO4004, AMCHLO4005, AMCHLO4100, AMCHLO4101, AMCHLO4102,

SAFETY DATA SHEET AMMONIUM CHLORIDE REVISION 4, DATE 15 JUL 19

AMCHLO4200, AMCHLO4201, AMCHLO4202, AMCHLO4210, AMCHLO4250, AMCHLO4255, AMCHLO4256, AMCHLO4257, AMCHLO4258, AMCHLO4259, AMCHLO4300, AMCHLO4301, AMCHLO4302, AMCHLO4303, AMCHLO4304, AMCHLO4305, AMCHLO4306, AMCHLO4307, AMCHLO4308, AMCHLO4310, AMCHLO4311, AMCHLO4313, AMCHLO4400, AMCHLO4500, AMCHLO4501, AMCHLO4502, AMCHLO4503, AMCHLO4504, AMCHLO4600, AMCHLO4700, AMCHLO4800, AMCHLO4900, AMCHLO5000, AMCHLO5001, AMCHLO5100, AMCHLO5200, AMCHLO5300, AMCHLO5400, AMCHLO5500, AMCHLO5501, AMCHLO5600, AMCHLO5700, AMCHLO5800, AMCHLO5900, AMCHLO6000, AMCHLO6001, AMCHLO6002, AMCHLO6003, AMCHLO6004, AMCHLO6010, AMCHLO6020, AMCHLO6040, AMCHLO6050, AMCHLO6100, AMCHLO6101, AMCHLO6200, AMCHLO6210, AMCHLO6300, AMCHLO6500, AMCHLO6600, AMCHLO6700, AMCHLO6701, AMCHLO6710, AMCHLO6711, AMCHLO7001, AMCHLO8000, AMCHLO9000, AMCHLO9001, AMCHLO9100, AMCHLO9101, AMCHLO9102, AMCHLO9103, AMCHLO9104, AMCHLO9105, AMCHLO9200, AMCHLO9201, AMCHLO9202, AMCHLO9203, AMCHLO9204, AMCHLO9205, AMCHLO9300, AMCHLO9301, AMCHLO9302, AMCHLO9303, AMCHLO9400, AMCHLO9500, AMCHLO9501, AMCHLO9502, AMCHLO9504, AMCHLO9532, AMCHLO9550, AMCHLO9552, AMCHLO9553, AMCHLO9600, AMCHLO9602, AMCHLO9603, AMCHLO9604, AMCHLO9605, AMCHLO9607, AMCHLO9608, AMCHLO9650, AMCHLO9700, AMCHLO9701, AMCHLO9705, AMCHLO9800, AMCHLO9900, AMCHLO9901, AMCHLO9902, AMCHLO9903, AMCHLO9904, AMCHLO9905, AMCHLO9906, AMCHLO9907, AMCHLO9908, AMCHLO9909, AMCHLO9910, AMCHLO9911, AMCHLO9912

Revision

4

Revision Date

15 Jul 2019

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

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