



# Safety Data Sheet

## Oxalic Acid Revision

5, 22/08/2024

### 1. IDENTIFICATION

Product Name	Oxalic acid, dihydrate
Other Names	No Data Available
Uses	There are no uses advised against.
Chemical Family	No Data Available
Chemical Formula	C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> .2H <sub>2</sub> O
Chemical Name	Ethanedioic acid, dihydrate
Product Description	No Data Available

#### Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Aurora Cleaning Supplies	F1 / 5 Bungaleen Court Dandenong South VIC 3175	03 9768 2669

#### Emergency Contact Details

*For emergencies only; DO NOT contact these companies for general product advice.*

Organisation	Location	Telephone
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
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#### Globally Harmonised System

**Hazard Classification**

Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Hazard Categories**

Acute Toxicity (Oral) - Category 4  
 Acute Toxicity (Dermal) - Category 4  
 Serious Eye Damage/Irritation - Category 1

**Pictograms****Signal Word**

Danger

**Hazard Statements**

**H302** Harmful if swallowed.  
**H312** Harmful in contact with skin.  
**H318** Causes serious eye damage.

**Precautionary Statements**

Prevention

**P270** Do not eat, drink or smoke when using this product.

Response

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P312** Call a POISON CENTER or doctor if you feel unwell.

**P330** Rinse mouth.

**P302 + P352** IF ON SKIN: Wash with plenty of water/...

**P363** Wash contaminated clothing before reuse.

**P305 + P351 + P338 + P310** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

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**

NOT 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

**6.1D**

Substances that are acutely toxic - Harmful

**8.3A**

Substances that are corrosive to ocular tissue

Environmental Hazards

**9.3B**

Substances that are ecotoxic to terrestrial vertebrates

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

Chemical Entity	Formula	CAS Number	Proportion
Oxalic acid, dihydrate	C <sub>2</sub> H <sub>2</sub> O <sub>4</sub> .2H <sub>2</sub> O	6153-56-6	<=100 %

## 4. FIRST AID MEASURES

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

<b>Swallowed</b>	IF SWALLOWED: Rinse mouth, then drink plenty of water. Do NOT induce vomiting. Call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.
<b>Eye</b>	IF IN EYES: Immediately flush eyes continuously with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Immediately call a Poison Centre or doctor/physician for advice. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a Poison Information Centre or a doctor, or for at least 15 minutes.
<b>Skin</b>	IF ON SKIN (or hair): Remove contaminated clothing and shoes immediately. Flush skin and hair with running water for at least 15 minutes; Wash with plenty of soap and water. Get medical advice/attention. Wash contaminated clothing and shoes before reuse.
<b>Inhaled</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is difficult.
<b>Advice to Doctor</b>	Treat symptomatically. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.
<b>Medical Conditions Aggravated by Exposure</b>	No information available.

## 5. FIRE FIGHTING MEASURES

<b>General Measures</b>	If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.
<b>Flammability Conditions</b>	Combustible material; May burn but does not ignite readily.
<b>Extinguishing Media</b>	Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), foam or water spray for extinction. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Fire and Explosion Hazard</b>	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
<b>Hazardous Products of Combustion</b>	Fire or heat will produce irritating, toxic and/or corrosive gases, including Carbon monoxide, Carbon dioxide, Formic acid.
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
<b>Personal Protective Equipment</b>	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection.
<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 self-ignition below 400 °C
<b>Hazchem Code</b>	No Data Available

## 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
<b>Clean Up Procedures</b>	Collect material (sweep or vacuum up) and place into suitable containers for later disposal (see SECTION 13). Avoid dispersal of dust in the air (i.e. clearing dusty surfaces with compressed air). Non-sparking tools should be used.
<b>Containment</b>	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
<b>Decontamination</b>	Wash away remainder with plenty of water.
<b>Environmental Precautionary Measures</b>	Prevent entry into drains and waterways.
<b>Evacuation Criteria</b>	Spill or leak area should be isolated immediately. Keep unauthorised personnel away.
<b>Personal Precautionary Measures</b>	Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

<b>Handling</b>	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
<b>Storage</b>	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Avoid exposure to air and moisture (hygroscopic). Keep away from heat and sources of ignition - No smoking. Keep away from food/feedstuffs and incompatible materials (see SECTION 10).
<b>Container</b>	Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	No specific exposure standards are available for this product. For Oxalic acid (CAS No. 144-62-7): - Safe Work Australia (SWA) Exposure Standard: TWA = 1 mg/m <sup>3</sup> ; STEL = 2 mg/m <sup>3</sup> . - New Zealand Workplace Exposure Standard (WES): TWA = 1 mg/m <sup>3</sup> ; STEL = 2 mg/m <sup>3</sup> . - NIOSH REL: TWA = 1 mg/m <sup>3</sup> ; ST = 2 mg/m <sup>3</sup> . - OSHA PEL: TWA = 1 mg/m <sup>3</sup> . - Immediately dangerous to life or health (IDLH) concentration: 500 mg/m <sup>3</sup> .
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available.
<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.
<b>Personal Protection Equipment</b>	- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic vapour/particulate (filter type A/P) respirator (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Face shield and safety glasses. - Hand protection: Wear protective gloves. Recommended: Impervious gloves, e.g. Nitrile, neoprene, natural rubber, polyvinyl. - Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Standard work clothes, long pants, long sleeves, coveralls, safety shoes.
<b>Special Hazards Precautions</b>	No information available.
<b>Work Hygienic Practices</b>	Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Solid
<b>Appearance</b>	Crystals or powder
<b>Odour</b>	Odourless
<b>Colour</b>	Uncoloured or white
<b>pH</b>	~0.7 (50 g/l)
<b>Vapour Pressure</b>	0.0312 Pa (@ 25 °C)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	>160 °C (Sublimes)
<b>Melting Point</b>	>160 °C (Sublimes)
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	108 g/L in water 25°C
<b>Specific Gravity</b>	0.813 [EU A.3 method]

<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temp</b>	No self-ignition below 400 °C
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	>160 °C
<b>Density</b>	No Data Available
<b>Specific Heat</b>	No Data Available
<b>Molecular Weight</b>	No Data Available
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Particle Size</b>	No Data Available
<b>Partition Coefficient</b>	-1.7 (23 °C) [OECD Guideline 107]
<b>Saturated Vapour Concentration</b>	No Data Available
<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	No Data Available
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	No information available.
<b>Potential for Dust Explosion</b>	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
<b>Fast or Intensely Burning Characteristics</b>	No information available.
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No information available.
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No information available.
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	Combustible material; May burn but does not ignite readily.
<b>Reactions That Release Gases or Vapours</b>	Fire or heat will produce irritating, toxic and/or corrosive gases, including Carbon monoxide, Carbon dioxide, Formic acid.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	The substance in solution is a medium-strong acid. Reacts violently with oxidants causing fire and explosion hazard. Reacts with silver compounds, forming explosive silver oxalate. Attacks some forms of plastic.
<b>Chemical Stability</b>	Stable under normal conditions of use and storage.
<b>Conditions to Avoid</b>	Avoid generating dust. Avoid exposure to air and moisture. Keep away from heat and sources of ignition.
<b>Materials to Avoid</b>	Incompatible/reactive with alkalis, alkaline solutions, ammonia, acid chlorides, halogenates, oxidising agents, metals.
<b>Hazardous Decomposition Products</b>	Fire or heat will produce irritating, toxic and/or corrosive gases, including Carbon monoxide, Carbon dioxide, Formic acid.
<b>Hazardous Polymerisation</b>	Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	- Acute toxicity: Harmful if swallowed and in contact with skin. Corrosive on ingestion; May cause effects on Calcium balance. Signs of toxicity include nausea and vomiting, headaches, abdominal pain, diarrhoea, bloody stool, numbness and tingling of fingers and toes, muscular irritability, tetany, convulsions, shock, cardiac irregularities and
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circulatory collapse [NICNAS].

- Skin corrosion/irritation: Not irritating to skin. No skin irritation (Rabbit) [OECD TG 404].
- Eye damage/irritation: Causes serious eye damage. Irreversible effects on the eye (Rabbit) [OECD TG 405].
- Respiratory/skin sensitisation: Oxalic acid is not a skin sensitiser [OECD Guideline 429].
- Germ cell mutagenicity: Not considered to be genotoxic [NICNAS].
- Carcinogenicity: No evidence of carcinogenicity [NICNAS].
- Reproductive toxicity: Does not show specific reproductive or developmental toxicity [NICNAS].
- STOT (single exposure): Corrosion and irritant effects of the mouth and digestive tract, skin, eyes and respiratory tract have been reported following exposure to either the solid or concentrated solutions of oxalic acid [NICNAS].
- STOT (repeated exposure): May cause harmful cumulative effects (reduced thyroid function, renal toxicity, kidney damage/stone formation) following repeated oral exposure.
- Aspiration toxicity: No information available.

<b>Acute</b>	
<b>Ingestion</b>	Acute toxicity (Oral): - LD50, Rat: >375 mg/kg bw. [Supplier's SDS].
<b>Other</b>	Acute toxicity (Dermal): - LD50, Rabbit: >20,000 mg/kg bw. [Supplier's SDS].
<b>Carcinogen Category</b>	None

12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Aquatic toxicity: - LC50, Fish (Leuciscus idus): 160 mg/l (96 h) [Supplier's SDS]. - EC50, Crustacea (Daphnia magna): 162.2 mg/l (48 h) [Supplier's SDS].
<b>Persistence/Degradability</b>	Readily biodegradable.
<b>Mobility</b>	No information available.
<b>Environmental Fate</b>	Prevent entry into drains and waterways.
<b>Bioaccumulation Potential</b>	No information available.
<b>Environmental Impact</b>	No Data Available

13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Dispose of contents/container via a licensed disposal company and in accordance with local/regional/national regulations. Must not be disposed together with household garbage.
<b>Special Precautions for Land Fill</b>	Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

Land Transport (Australia)  
ADG Code

<b>Proper Shipping Name</b>	Oxalic acid, dihydrate
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

**Land Transport (Malaysia)**

ADR Code

<b>Proper Shipping Name</b>	Oxalic acid, dihydrate
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

**Land Transport (New Zealand)**

NZS5433

<b>Proper Shipping Name</b>	Oxalic acid, dihydrate
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

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

US DOT

<b>Proper Shipping Name</b>	Oxalic acid, dihydrate
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for LAND transport.

**Sea Transport**

IMDG Code

<b>Proper Shipping Name</b>	Oxalic acid, dihydrate
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>EMS</b>	No Data Available
<b>Marine Pollutant</b>	No
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for SEA transport.

**Air Transport**

IATA DGR

<b>Proper Shipping Name</b>	Oxalic acid, dihydrate
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	No Data Available
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	No Data Available
<b>Comments</b>	NON-DANGEROUS GOODS: Not regulated for AIR transport.

**National Transport Commission (Australia)**

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

<b>Dangerous Goods Classification</b>	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**

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

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

<b>Approval Code</b>	HSR002503
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**National/Regional Inventories**

<b>Australia (AIC)</b>	Listed
<b>Canada (DSL)</b>	Not Determined
<b>Canada (NDSL)</b>	Not Determined
<b>China (IECSC)</b>	Not Determined
<b>Europe (EINECS)</b>	205-634-3
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ENCS/METI)</b>	Not Determined
<b>Korea (KECI)</b>	Not Determined
<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NZIoC)</b>	Listed
<b>Philippines (PICCS)</b>	Not Determined
<b>Switzerland (Giftliste 1)</b>	Not Determined



Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Not Determined

## 16. OTHER INFORMATION

Related Product Codes	OXACID1000, OXACID1001, OXACID1002, OXACID1003, OXACID1004, OXACID1005, OXACID1006, OXACID1007, OXACID1008, OXACID1009, OXACID1010, OXACID1011, OXACID1012, OXACID1013, OXACID1014, OXACID1015, OXACID1016, OXACID1017, OXACID1018, OXACID1019, OXACID1020, OXACID1021, OXACID1500, OXACID1501, OXACID1502, OXACID1503, OXACID1510, OXACID1515, OXACID1800, OXACID1801, OXACID1802, OXACID1803, OXACID2000, OXACID2001, OXACID2500, OXACID3000, OXACID3001, OXACID3500, OXACID4000, OXACID4500, OXACID5000, OXACID5001, OXACID5002, OXACID5003, OXACID5004, OXACID5005, OXACID5006, OXACID5007, OXACID5008, OXACID5009, OXACID5010, OXACID5011, OXACID5012, OXACID5013, OXACID5014, OXACID5015, OXACID5016, OXACID5017, OXACID5018, OXACID5019, OXACID5020, OXACID5021, OXACID5022, OXACID5023, OXACID5024, OXACID5025, OXACID5026, OXACID5027, OXACID5028, OXACID5029, OXACID5030, OXACID5031, OXACID5032, OXACID5033, OXACID5034, OXACID5035, OXACID5036, OXACID5037, OXACID5038, OXACID5039, OXACID5040, OXACID5500, OXACID6000, OXACID6001, OXACID6002, OXACID7000, OXACID8000, OXACID8200, OXACID8300, OXACID8350, OXACID8400, OXACID8450, OXACID8500, OXACID8501, OXACID8510, OXACID8566, OXACID8599, OXACID8600, OXACID8601, OXACID8602, OXACID8700, OXACID8800, OXACID8815, OXACID8820, OXACID8850, OXACID8900, OXACID8925, OXACID9000, OXACID9500, OXACID9900
Revision	5
Revision Date	22/08/2024
Reason for Issue	Update sds
Key/Legend	<p>&lt; Less Than &gt; Greater Than  <b>AICS</b> Australian Inventory of Chemical Substances  <b>atm</b> Atmosphere  <b>CAS</b> Chemical Abstracts Service (Registry Number)  <b>cm<sup>2</sup></b> Square Centimetres  <b>CO<sub>2</sub></b> Carbon Dioxide  <b>COD</b> Chemical Oxygen Demand  <b>deg C (°C)</b> Degrees Celcius  <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand  <b>deg F (°F)</b> Degrees Fahrenheit  <b>g</b> Grams  <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre  <b>g/l</b> Grams per Litre  <b>HSNO</b> Hazardous Substance and New Organism  <b>IDLH</b> Immediately Dangerous to Life and Health  <b>immiscible</b> Liquids are insoluable in each other.  <b>inHg</b> Inch of Mercury  <b>inH<sub>2</sub>O</b> Inch of Water  <b>K</b> Kelvin  <b>kg</b> Kilogram  <b>kg/m<sup>3</sup></b> Kilograms per Cubic Metre  <b>lb</b> Pound  <b>LC50</b> 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.  <b>LD50</b> 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.  <b>ltr</b> or <b>L</b> Litre  <b>m<sup>3</sup></b> Cubic Metre  <b>mbar</b> Millibar  <b>mg</b> Milligram  <b>mg/24H</b> Milligrams per 24 Hours  <b>mg/kg</b> Milligrams per Kilogram  <b>mg/m<sup>3</sup></b> Milligrams per Cubic Metre  <b>Misc</b> or <b>Miscible</b> Liquids form one homogeneous liquid phase regardless of the amount of either component present.  <b>mm</b> Millimetre  <b>mmH<sub>2</sub>O</b> Millimetres of Water  <b>mPa.s</b> Millipascals per Second  <b>N/A</b> Not Applicable  <b>NIOSH</b> National Institute for Occupational Safety and Health  <b>NOHSC</b> National Occupational Heath and Safety Commission</p>

**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