



**SAFETY DATA SHEET**  
**CHLORHEXIDINE DIGLUCONATE SOLUTION**  
**REVISION 4, DATE 18 DEC 20**

## 1. IDENTIFICATION

<b>Product Name</b>	<b>Chlorhexidine Digluconate Solution</b>
<b>Other Names</b>	Chlorhexidine gluconate, >10 - 24% in a non-hazardous diluent
<b>Uses</b>	Antiseptic, disinfectant; Formulation of cosmetic products, perfumes, pharmaceutical products, washing, cleaning and personal hygiene products, medical devices.
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	Unspecified
<b>Chemical Name</b>	D-Gluconic acid, compound with N,N"-bis(4-chlorophenyl)-3,12-diimino-2,4,11,13-tetraazatetradecanediimidamide (2:1)
<b>Product Description</b>	No Data Available

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

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
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.*

<b>Organisation</b>	<b>Location</b>	<b>Telephone</b>
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 7



**Redox Ltd**  
**Corporate Office Sydney**  
Locked Bag 15 Minto NSW 2566 Australia  
2 Swettenham Road Minto NSW 2566 Australia  
All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

**Phone** +61 2 9733 3000  
**Fax** +61 2 9733 3111  
**E-mail** [sydney@redox.com](mailto:sydney@redox.com)  
**Web** [www.redox.com](http://www.redox.com)  
**ABN** 92 000 762 345

**Australia**  
Adelaide  
Brisbane  
Melbourne  
Perth  
Sydney  
**New Zealand**  
Auckland  
Christchurch  
Hawke's Bay  
UK  
London  
**Malaysia**  
Kuala Lumpur  
**USA**  
Los Angeles  
Oakland  
**Mexico**  
Saltillo



## 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>	Serious Eye Damage/Irritation - Category 1 Long-term Hazard To The Aquatic Environment - Category 1 Acute Hazard To The Aquatic Environment - Category 1		
<b>Pictograms</b>	 		
<b>Signal Word</b>	Danger		
<b>Hazard Statements</b>	<b>H318</b>	Causes serious eye damage.	
	<b>H410</b>	Very toxic to aquatic life with long lasting effects.	
<b>Precautionary Statements</b>	Prevention	<b>P280</b>	Wear eye protection/face protection.
		<b>P273</b>	Avoid release to the environment.
	Response	<b>P305 + P351 + P338 + P310</b>	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.
		<b>P391</b>	Collect spillage.
	Disposal	<b>P501</b>	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 &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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## 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
	Environmental Hazards	<b>9.1B</b>	Substances that are ecotoxic in the aquatic environment

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Water	H2O	7732-18-5	79 - 81 % (w/v)

Chlorhexidine digluconate	Unspecified	18472-51-0	19 - 21 % (w/v)
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#### 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. Get medical advice/attention. Never give anything by mouth to an unconscious or convulsing person.
<b>Eye</b>	IF IN EYES: Immediately flush eyes 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 rinsing for at least 15 minutes. Obtain immediate medical attention!
<b>Skin</b>	IF ON SKIN: Immediately flush skin with running water while removing contaminated clothing and shoes. Continue to wash skin with plenty of soap and water for at least 15 minutes. If skin irritation occurs, 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. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing. Administer oxygen if breathing is difficult.
<b>Advice to Doctor</b>	Symptomatic treatment and supportive therapy, as indicated. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this material safety data sheet to the doctor in attendance.
<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. Suppress (knock down) gases/vapors/mists with a water spray jet. Dike fire control water for later disposal.
<b>Flammability Conditions</b>	The substance is produced, handled and marketed as aqueous solution, which prevents flammability. *This product does not sustain combustion [per DOT 49CFR 173 Appendix H method].
<b>Extinguishing Media</b>	Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), water spray or foam for extinction. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. *Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.
<b>Fire and Explosion Hazard</b>	Containers may explode when heated. *Not combustible. Ambient fire may liberate hazardous vapours.
<b>Hazardous Products of Combustion</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours, including Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas.
<b>Special Fire Fighting Instructions</b>	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
<b>Personal Protective Equipment</b>	A positive pressure self-contained breathing apparatus (SCBA) and suitable protective clothing should be worn in fire conditions.
<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>	•3Z

#### 6. ACCIDENTAL RELEASE MEASURES

<b>General Response Procedure</b>	Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flames). Do not touch or walk through spilled material. Avoid breathing mist/vapours and contact with eyes, skin and clothing.
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Clean Up Procedures	Absorb with earth, sand or other non-combustible material. Transfer to a container for disposal or recovery (see SECTION 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas.
Decontamination	Ventilate area and wash spill site after material pick up is complete.
Environmental Precautionary Measures	Spillages and decontamination runoff should be prevented from entering drains and watercourses.
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 splashes. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). Avoid release to the environment - Collect spillage (see SECTION 6).
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight (light sensitive). Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep away from heat and sources of ignition - No smoking. Do not freeze. Keep away from incompatible material (see SECTION 10). *This product should be stored at a temperature not greater than: 25 °C.
Container	Keep in the original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Contains no substances with occupational exposure limit values.
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	<ul style="list-style-type: none"><li>- Respiratory protection: In case of inadequate ventilation, wear respiratory protection; required when vapours/aerosols are generated Recommended: For nuisance exposures, use type OV/AG (US) or type ABEK respirator cartridges. Use respirators and components tested and approved under appropriate government standards (refer to AS/NZS 1715 &amp; 1716).</li><li>- Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Complete eye protection. Tightly fitting safety goggles or Safety spectacles and face shield. Use equipment for eye protection tested and approved under appropriate government standards.</li><li>- Hand protection: Handle with gloves. Recommended: Wear suitable gloves, e.g. Nitrile rubber (0.1 mm).</li><li>- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the hazardous substance(s) at the specific workplace.</li></ul> <p>*Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.</p>
Special Hazards Precautions	No information available.
Work Hygienic Practices	When using do not eat, drink or smoke. Wash hands and exposed skin after use. Contaminated clothing should be thoroughly cleaned. *Contact lenses may represent a special hazard. Have available eyewash bottle with clean water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
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<b>Appearance</b>	Liquid
<b>Odour</b>	Odourless
<b>Colour</b>	Clear
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	No Data Available
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Soluble in water
<b>Specific Gravity</b>	1.06 - 1.07
<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>	No Data Available
<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>	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>	<4
<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>	Solubility (other): 21 g/L in ethanol; 35 g/L in isopropanol; 44 g/L in acetone [Chlorhexidine digluconate].
<b>Potential for Dust Explosion</b>	Not applicable.
<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>	Not combustible. Ambient fire may liberate hazardous vapours. The substance is produced, handled and marketed as aqueous solution, which prevents flammability. *This product does not sustain combustion [per DOT 49CFR 173 Appendix H method].
<b>Reactions That Release Gases or Vapours</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours, including Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas.
<b>Release of Invisible Flammable Vapours and Gases</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>General Information</b>	Due to the cationic character of Chlorhexidine salts, they are chemically incompatible with anionic compounds.
<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Keep away from heat, sources of ignition and direct sunlight. Do not freeze.
<b>Materials to Avoid</b>	Incompatible/reactive with strong acids, strong bases and oxidising agents. Chemically incompatible with anionic compounds; Keep away from sulfates, borates, bicarbonates, chlorides, etc.
<b>Hazardous Decomposition Products</b>	Combustion or thermal decomposition will evolve toxic and irritant vapours, including Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas.
<b>Hazardous Polymerisation</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	<ul style="list-style-type: none"> <li>- Acute toxicity: May be harmful if swallowed; Ingestion is likely to result in irritation of the gastrointestinal tract. May be harmful if inhaled. Not expected to cause systemic harmful effects after skin contact.</li> <li>- Skin corrosion/irritation: This material showed low primary skin irritation potential to rabbit skin. It is not expected to cause significant or prolonged irritation by skin contact. Repeated exposure may cause dermal disturbances.</li> <li>- Eye damage/irritation: Causes serious eye damage. Severe irritant to the eye. This material is considered to represent risk of serious damage to eyes.</li> <li>- Respiratory/skin sensitisation: This material is not considered a skin sensitiser. Some rare cases of allergic reactions have been reported. Several cases of sensitisation have been reported in humans; However, the majority of positive reactions were in individuals with pre-existing skin disorders or when applied to a mucous membrane (Chlorhexidine digluconate).</li> <li>- Germ cell mutagenicity: There is no evidence of mutagenic potential.</li> <li>- Carcinogenicity: There is no evidence that this product represents a carcinogenic risk under normal conditions of handling and use. No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</li> <li>- Reproductive toxicity: No evidence of reproductive toxicity or teratogenic potential.</li> <li>- STOT (single exposure): May cause irritation to the respiratory system (mucosal irritations).</li> <li>- STOT (repeated exposure): None known.</li> <li>- Aspiration toxicity: None known.</li> </ul>
<b>Acute</b>	
<b>Ingestion</b>	Acute toxicity (Oral): - LD50, Rat: >2,000 mg/kg
<b>Other</b>	Acute toxicity (Dermal): - LD50, Rabbit: >2,000 mg/kg
<b>Carcinogen Category</b>	None

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Aquatic toxicity: - LC50, Fish (Danio rerio): 2.08 mg/L (96 h) [as pure Chlorhexidine digluconate; OECD Test Guideline 203]. - EC50, Crustacea (Daphnia magna): 0.087 mg/L (48 h) [as pure Chlorhexidine digluconate; OECD Test Guideline 202]. - ErC50, Algae (Desmodesmus subspicatus): 0.081 mg/L (72 h) [as pure Chlorhexidine digluconate; OECD Test Guideline 201]. M-factor (acute) = 10 M-factor (chronic) = 1
<b>Persistence/Degradability</b>	Not readily biodegradable.
<b>Mobility</b>	LogKoc: >3.9 (Chlorhexidine digluconate).
<b>Environmental Fate</b>	Very toxic to aquatic life with long lasting effects - Avoid release to the environment.
<b>Bioaccumulation Potential</b>	Bioconcentration factor (BCF): 42 L/kg (Chlorhexidine digluconate).
<b>Environmental Impact</b>	No Data Available

**13. DISPOSAL CONSIDERATIONS**

<b>General Information</b>	Dispose of contents/container in accordance with local/regional/national regulations. Bury on an authorised landfill site or incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste.
<b>Special Precautions for Land Fill</b>	No mixing with other waste. Handle uncleaned containers like the product.

**14. TRANSPORT INFORMATION****Land Transport (Australia)**

ADG Code

<b>Proper Shipping Name</b>	Chlorhexidine Digluconate Solution
<b>Class</b>	No Data Available
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	No Data Available
<b>Hazchem</b>	•3Z
<b>Pack Group</b>	No Data Available
<b>Special Provision</b>	AU01
<b>Comments</b>	Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs.

**Land Transport (Malaysia)**

ADR Code

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

**Land Transport (New Zealand)**

NZS5433

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

**Land Transport (Philippines)**

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

**Land Transport (Spain)**

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	47 Low To Moderate Hazard Substances
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<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>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>ERG</b>	171 Substances (Low to Moderate Hazard)
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

**Sea Transport**

IMDG Code

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
<b>Class</b>	9 Miscellaneous Dangerous Goods and Articles
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3082
<b>Hazchem</b>	3Z
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available
<b>EMS</b>	F-A, S-F
<b>Marine Pollutant</b>	Yes

**Air Transport**

IATA DGR



## SAFETY DATA SHEET CHLORHEXIDINE DIGLUCONATE SOLUTION REVISION 4, DATE 18 DEC 20

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorhexidine digluconate solution)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	3Z
Pack Group	III
Special Provision	No Data Available

### National Transport Commission (Australia)

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

Dangerous Goods Classification	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	CHLORHEXIDINE
Poisons Schedule (Aust)	Schedule 7

### Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR007118
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### National/Regional Inventories

Australia (AIIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	242-354-0
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)

Listed

## 16. OTHER INFORMATION

## Related Product Codes

CHLDIS1000, CHLDIS1001, CHLDIS1002, CHLDIS1003, CHLDIS1004, CHLDIS1005, CHLDIS1006, CHLDIS1007, CHLDIS1500, CHLDIS2000, CHLDIS2500, CHLDIS3000, CHLDIS3400, CHLDIS3500, CHLDIS3501, CHLDIS3510, CHLDIS3515, CHLDIS3600, CHLDIS3900, CHLDIS3910, CHLDIS3915, CHLDIS4000, CHLDIS4500, CHLDIS4501, CHLDIS4502, CHLDIS4505, CHLDIS4510, CHLDIS4516, CHLDIS4550, CHLDIS4600, CHLDIS4610, CHLDIS5000, CHLDIS6000, CHLDIS6100, CHLDIS6200, CHLDIS6300, CHLDIS7000, CHLDIS7100, CHLDIS8000, CHLDIS8500

## Revision

4

## Revision Date

18 Dec 2020

## Key/Legend

&lt; Less Than

&gt; 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