

1. IDENTIFICATION

Product Name	Sulphuric acid >51%
Other Names	SULPHURIC ACID with more than 51% acid
Uses	Chemical intermediate; fertilisers; processing aid; catalyst; dehydrating agent; pH regulation; extractions and processing of minerals and ores; surface treatments; purification and etching; electrolytic processes; gas purification; flue gas scrubbing; production of sulphuric acid batteries; industrial cleaning.
Chemical Family	No Data Available
Chemical Formula	H2SO4
Chemical Name	Sulfuric acid >51%
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

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

Form 21047, Revision 3, Page 1 of 11, 01-Feb-2024 02:05:00

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Australia Adelaide Auckland Brisbane Melbourne Perth UK London Sydney

New Zealand Malaysia Kuala Lumpur Christchurch USA Los Angeles Hawke's Bay Oakland Mexico Saltillo



Poisons Schedule (Aust)		Schedule 6		
Globally Harmonised Syste	m			
Hazard Classification		Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)		
Hazard Categories		Corrosive to Metals - Ca	itegory 1	
-		Skin Corrosion/Irritation		
		Serious Eye Damage/Irr	itation - Category 1	
Pictograms				
Signal Word		Danger		
Hazard Statements		H290	May be corrosive to metals.	
		H314	Causes severe skin burns and eye damage.	
		AUH071	Corrosive to the respiratory tract	
Precautionary Statements	Prevention	P260	Do not breathe fume/mist/vapours/spray.	
····· , ···· ,		P280	Wear protective gloves/protective clothing/eye protection/face protection.	
	Response	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.	
		P310	Immediately call a POISON CENTER or doctor.	
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
		P390	Absorb spillage to prevent material-damage.	
		P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
		P363	Wash contaminated clothing before reuse.	
		P304 + P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.	
	Storage	P406	Store in corrosive resistant container with a resistant inner liner.	
		P405	Store locked up.	
	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)

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

HSNO Classifications He

Health Hazards 6.7A

Substances that are known or presumed human carcinogens

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sulfuric acid	H2SO4	7664-93-9	>51 %
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 - 2 glasses of water. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice.		
Eye	IF IN EYES: Immediately flush eyes with running water (continuously) for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Immediately call a Poison Centre or doctor/physician for a advice. Remove contact lenses if present and easy to do. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.		
Skin	IF ON SKIN (or hair): Remove contaminated clothing and shoes immediately. Flush skin and hair with running water for at least 15 minutes. In case of gross contamination, drench contaminated clothing and shoes with plenty of water before removing clothes. Immediately call a Poison Centre or doctor/physician for advice. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing and shoes before reuse.		
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. Apply resuscitation if victim is not breathing - Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device - Administer oxygen if breathing is difficult.		
Advice to Doctor	Treat symptomatically. Keep victim calm and warm - Obtain immediate medical care. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect themselves.		
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 water spray until well after fire is out. Avoid getting water inside containers.
Flammability Conditions	Non-combustible; Does not burn but may produce toxic and/or corrosive fumes upon heating.
Extinguishing Media	If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction (do not use water on material itself).
Fire and Explosion Hazard	Risk of violent reaction or explosion: Contact with metals may evolve flammable hydrogen gas. Containers may explode when heated or contaminated with water. Will react exothermically on dilution with water which may cause violent spattering - Reaction with water may generate heat which will increase the concentration of fumes in the air.
Hazardous Products of Combustion	Fire will produce irritating, toxic and/or corrosive gases, including oxides of Sulfur.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may be toxic and/or corrosive and may pollute waterways.
Personal Protective Equipment	Wear self-contained breathing apparatus (SCBA) and chemical splash suit. Structural firefighter's uniform is NOT effective for this material.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation - Ventilate enclosed spaces before entering. Do not touch or walk through spilled material. Do not breathe fume/vapours and prevent contact with eyes, skin and clothing.
Clean Up Procedures	Use clean, non-sparking tools to collect absorbed material and place it into suitable, properly labelled containers for disposal (see SECTION 13).
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Cover with dry earth, sand or other non-combustible material followed by plastic sheet to minimise spreading. Vapours may accumulate in confined areas. Vapour-suppressing foam may be used to control vapours; Water spray may be used to knock down or divert vapour clouds.
Decontamination	Neutralise residues with lime or soda ash. After cleaning, flush away any residual traces with water.
Environmental Precautionary Measures	Small spillages and decontamination runoff may be washed to drains with large quantities of water. Due care must still be exercised to avoid unnecessary pollution of watercourses.
Evacuation Criteria	Spill or leak area should be isolated immediately. 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). Large spill: Wear SCBA and chemical splash suit.

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 place. Handle in accordance with good industrial hygiene and safety practice. Do not breathe fume/mist/vapours/spray and prevent contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). Absorb spillage to prevent material damage (see SECTION 6).
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Avoid contact with water/moisture. Protect from freezing. Keep container tightly closed - Check regularly for leaks. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
Container	Keep only in the original container or corrosive resistant container. Contact with metals may evolve flammable hydrogen gas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	For Sulphuric acid (CAS No. 7664-93-9): - Safe Work Australia (SWA) Exposure Standard: TWA = 1 mg/m3; STEL = 3 mg/m3 - New Zealand Workplace Exposure Standard (WES): TWA = 1 mg/m3; STEL = 3 mg/m3 - NIOSH REL/OSHA PEL: TWA = 1 mg/m3 - Immediately dangerous to life or health (IDLH) concentration: 15 mg/m3
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: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended: Acid gas/particulate (E/P) filter respirator (refer to AS/NZS 1715 & 1716). Eye/face protection: Wear appropriate eye protection to prevent eye contact. Recommended: Chemical goggles, face-shield.

- Hand protection: Wear protective gloves. Recommended: Elbow-length impervious gloves.

- Skin/body protection: Wear appropriate personal protective clothing to prevent skin contact. Recommended: Overalls, splash apron or equivalent, rubber boots.

Special Hazards Precaustions Work Hygienic Practices

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove contaminated clothing and shoes immediately and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

No information available.

Physical State	Liquid
Appearance	Liquid
Odour	Slight, acidic
Colour	Colorless to brown
рН	<1
Vapour Pressure	<0.011 kPa (@ 20 °C)
Relative Vapour Density	No Data Available
Boiling Point	~178 °C
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Miscible with water
Specific Gravity	1.50 - 1.85
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	Will react exothermically on dilution with water which may cause violent spattering - Reaction with water may generate heat which will increase the concentration of fumes in the air.

Properties That May Initiate or
Contribute to Fire IntensityNon-combustible; Does not burn but may produce toxic and/or corrosive fumes upon heating.Reactions That Release Gases or
VapoursFire/decomposition will produce irritating, toxic, and/or corrosive gases, including oxides of Sulfur.Release of Invisible Flammable
Vapours and GasesContact with metals may evolve flammable hydrogen gas.

10. STABILITY AND REACTIVITY

General Information	Will react exothermically on dilution with water. Reacts exothermically with strong alkalis. May be corrosive to metals.
Chemical Stability	Stable under normal conditions.
Conditions to Avoid	To avoid thermal decomposition, do not overheat. Avoid contact with water/moisture.
Materials to Avoid	Incompatible/reactive with water, oxidising agents, alkalis, most metals, organic chemicals.
Hazardous Decomposition Products	Fire/decomposition will produce irritating, toxic, and/or corrosive gases, including oxides of Sulfur. Contact with metals may evolve flammable hydrogen gas.
Hazardous Polymerisation	Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	 Acute toxicity: Low toxicity; There is no evidence for the systemic toxicity of sulfuric acid in any study as effects are limited to the site of contact [NICNAS]. Corrosive on ingestion - swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. Skin corrosion/irritation: Corrosive to skin; Causes severe skin burns. Eye damage/irritation: Corrosive to eyes; Causes serious eye damage. Respiratory/skin sensitisation: No information available. Germ cell mutagenicity: No information available. Carcinogenicity: "Acid mists, strong inorganic" are classified by the IARC Monographs as "Carcinogenic to humans" (Group 1); causing cancer of the larynx. Reproductive toxicity: No information available. STOT (single exposure): May cause respiratory irritation. Exposure to high concentrations of mist or aerosols may cause pulmonary odema and death. STOT (repeated exposure): Repeated exposure to high concentrations of mist or aerosol may cause chronic conjunctivitis, lung damage and dental erosion. Aspiration toxicity: No information available.
Acute	
Ingestion	Acute toxicity (Oral): COMPONENT: Sulfuric acid (CAS No. 7664-93-9): - LD50, Rats: ^2,140 mg/kg bw. [NICNAS].
Inhalation	Acute toxicity (Inhalation): COMPONENT: Sulfuric acid (CAS No. 7664-93-9): - LC50, Rats: 0.375 mg/L (4 h) aerosols [NICNAS]. *The effects of sulfuric acid following inhalation are entirely due to local irritation of the respiratory tract, thus classification for acute inhalation toxicity is not recommended despite low LC50s [NICNAS].
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Persistence/Degradability	No information available.

Mobility	No information available.
Environmental Fate	The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Whatever cannot be saved for recovery or recycling should be disposed of as hazardous waste and in accordance with local/regional/national regulations.
Special Precautions for Land Fill	No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)	
ADG Code	
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
EPG	40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive
UN Number	1830
Hazchem	2P
Pack Group	II
Special Provision	No Data Available
Land Transport (Malaysia) ADR Code	
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
EPG	40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive
UN Number	1830
Hazchem	2P
Pack Group	II
Special Provision	No Data Available
Land Transport (New Caledonia)	
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
EPG	40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive
UN Number	1830
Hazchem	2P

Pack Group	11
Pack Group Special Provision	n No Data Available
Special Provision	
Land Transport (New Zealand) NZS5433	
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
EPG	40 Toxic And/Or Corrosive Substances Non-Combustible - Water Reactive
UN Number	1830
Hazchem	2P
Pack Group	II
Special Provision	No Data Available
Land Transport (United States of America US DOT)
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
ERG	137 Substances - Water-Reactive - Corrosive
UN Number	1830
Hazchem	2P
Pack Group	ll
Special Provision	No Data Available
Sea Transport IMDG Code	
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
UN Number	1830
Hazchem	2P
Pack Group	
Special Provision	No Data Available
EMS	F-A, S-B
Marine Pollutant	No
Air Transport IATA DGR	
Proper Shipping Name	SULPHURIC ACID with more than 51% acid
Class	8 Corrosive Substances
Subsidiary Risk(s)	No Data Available
UN Number	1830
Hazchem	2P
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	No Data Available
Poisons Schedule (Aust)	Schedule 6

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	HSR001572

National/Regional Inventories

Australia (AIIC)		Listed
Canada (DSL)		Listed
Canada (NDSL)		Not Determined
China (IECSC)		Listed
Europe (EINECS)		231-639-5
Europe (REACh)		Not Determined
Japan (ENCS/METI)		Not Determined
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)	d	Not Determined
Taiwan (NCSR)		Listed
USA (TSCA)		Listed
Additional Information	ABBREVIATI to Life or He	ONS: SAR = supplied-air respirator SCBA = self-contained breathing apparatus IDLH = Immediately Dangerous ealth.
16. OTHER INFORMATION		

Related Product Codes

SULACB1000, SULACB1001, SULACB1002, SULACB1003, SULACB1004, SULACB1005, SULACB1006, SULACB1007, SULACB1008, SULACB1009, SULACB1010, SULACB2000, SULACB3000, SULACB5000, SULACB5001, SULACB5031, SULACB6000, SULACB6700, SULACB6800, SULACB7200, SULACB9000, SULACB9001, SULACB9500, SULACC0900, SULACC1000, SULACC1002, SULACC1100, SULACC1500, SULACC1501, SULACC1502, SULACC3000, SULACC4000, SULACC5000, SULACC6000, SULACC6100, SULACC6101, SULACC6400, SULACC7000, SULACC7700, SULACC8000, SULACD1000, SULACD1001, SULACD1002, SULACD1003, SULACD1004, SULACD1005, SULACD1006, SULACD1007, SULACD1008, SULACD1009, SULACD1010, SULACD1011, SULACD1012, SULACD1013, SULACD1014, SULACD1100, SULACD1200, SULACD1300, SULACD1450, SULACD1600, SULACD1601, SULACD1700, SULACD2400, SULACD2500, SULACD2501, SULACD3000, SULACD4100, SULACD4500, SULACD500, SULACD5000, SULACD5000, SULACD6000, SULACD6100, SULACD6600, SULACD7000, SULACD7001, SULACD7002, SULACD7100, SULACD7500, SULACD8100, SULACD9000, SULACD9500, SULACD9700, SULACD9701, SULACD9800, SULACI0872, SULACI0873, SULACI1000, SULACI1001, SULACI1002, SULACI1003, SULACI1004, SULACI1005, SULACI1098, SULACI1101, SULACI1300, SULACI1315, SULACI1340, SULACI1600, SULACI1601, SULACI1700, SULACI1701, SULACI1732, SULACI1733, SULACI1743, SULACI1744, SULACI1745, SULACI1754, SULACI1755, SULACI1756, SULACI1760, SULACI1770, SULACI1790, SULACI1798, SULACI1825, SULACI1826, SULACI1827, SULACI1828, SULACI1829, SULACI1830, SULACI1831, SULACI1832, SULACI1833, SULACI1834, SULACI1835, SULACI1836, SULACI1837, SULACI1838, SULACI1839, SULACI1840, SULACI1841, SULACI1842, SULACI1843, SULACI1844, SULACI1845, SULACI1846, SULACI1847, SULACI1852, SULACI1853, SULACI1854, SULACI1855, SULACI1856, SULACI1858, SULACI1859, SULACI1860, SULACI1861, SULACI1862, SULACI1863, SULACI1864, SULACI1865, SULACI1866, SULACI1867, SULACI1868, SULACI1869, SULACI1870, SULACI1871, SULACI1872, SULACI1890, SULACI1891, SULACI1896, SULACI1897, SULACI1898, SULACI1899, SULACI1900, SULACI1905, SULACI1917, SULACI1918, SULACI1919, SULACI1920, SULACI1921, SULACI1924, SULACI1925, SULACI1926, SULACI1927, SULACI1928, SULACI1929, SULACI1931, SULACI1932, SULACI1933, SULACI1934, SULACI1935, SULACI1936, SULACI1937, SULACI1938, SULACI1942, SULACI1944, SULACI1945, SULACI1946, SULACI1947, SULACI1948, SULACI1949, SULACI1950, SULACI1951, SULACI1952, SULACI1953, SULACI1954, SULACI1955, SULACI1956, SULACI1957, SULACI1958, SULACI1959, SULACI1960, SULACI1961, SULACI1962, SULACI1963, SULACI1972, SULACI1973, SULACI1974, SULACI1975, SULACI1976, SULACI1977, SULACI1978, SULACI1981, SULACI1985, SULACI1986, SULACI1987, SULACI1988, SULACI1989, SULACI1990, SULACI1993, SULACI1994, SULACI1995, SULACI1997, SULACI2000, SULACI2001, SULACI2002, SULACI2003, SULACI2007, SULACI2009, SULACI2010, SULACI2011, SULACI2012, SULACI2013, SULACI2015, SULACI2019, SULACI2020, SULACI2022, SULACI2023, SULACI2027, SULACI2028, SULACI2029, SULACI2030, SULACI2031, SULACI2032, SULACI2033, SULACI2034, SULACI2037, SULACI2038, SULACI2039, SULACI2040, SULACI2041, SULACI2042, SULACI2043, SULACI2044, SULACI2045, SULACI2048, SULACI2049, SULACI2050, SULACI2051, SULACI2052, SULACI2053, SULACI2056, SULACI2057, SULACI2063, SULACI2093, SULACI2094, SULACI2100, SULACI2135, SULACI2200, SULACI2300, SULACI2310, SULACI2320, SULACI2500, SULACI2501, SULACI2843, SULACI2900, SULACI2935, SULACI3000, SULACI3035, SULACI3101, SULACI3603, SULACI3604, SULACI3605, SULACI3606, SULACI3607, SULACI4000, SULACI4201, SULACI4202, SULACI4203, SULACI4400, SULACI4500, SULACI4501, SULACI4502, SULACI4503, SULACI5500, SULACI5600, SULACI6000, SULACI6010, SULACI6020, SULACI6030, SULACI6100, SULACI6600, SULACI6700, SULACI6800, SULACI7000, SULACI7002, SULACI7100, SULACI7700, SULACI7701, SULACI7702, SULACI8000, SULACI8100, SULACI9000, SULACI9100, SULACI9200, SULACI9210, SULACI9700, SULACI9800, SULACI9900, SULACL1000, SULACL2000 4

Revision Revision Date Key/Legend

21 Jun 2019 < Less Than > Greater Than AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO2 Corbon Diavido

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

Ib 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. Itr 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 mmH20 Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath 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