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RE-ISSUED by ACR Infosafe No™ 1CH72 Issue Date : April 2018

Product Name: SULFURIC ACID 52-98%

Classified as hazardous

1. Identification

GHS Product

SULFURIC ACID 52-98%

Identifier

AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211) **Company Name**

38 - 50 Bedford Street Gillman **Address**

> S.A. 5013 Australia Tel: (08) 8440 2000

Telephone/Fax Number

Fax: (08) 8440 2001

Recommended use of the chemical and restrictions on use

Manufacture of phosphate and ammonium sulfate fertilizers; production of rayon and other textile fibres. film, inorganic pigments, nitrate explosives, alcohols, plastics, dyes, drugs, synthetic detergents, natural and synthetic rubber, pulp and paper, cellulosics and catalysts; manufacture of hydrochloric and hydrofluoric acids, aluminium and copper sulfate and chromium chemicals; petroleum refining; pickling

iron, steel and other metals; leaching agent for ores; electroplating baths; alkylation catalyst; component

of lead storage batteries and laboratory reagent.

Other Names Name **Product Code**

> SULFURIC ACID 75% w/w 2755 SULFURIC ACID 85% w/v 5491

Other Information

+61 08 8440 2000 EMERGENCY CONTACT NUMBER: Business hours: 8:30am to 5:00pm, Monday to Friday.

Australian Chemical Reagents (ACR) does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Chemical Reagents (ACR) with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Chemical Reagents (ACR) is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification Skin Corrosion/Irritation: Category 1A of the Corrosive to Metals: Category 1

substance/mixture

Signal Word (s)

DANGER

Hazard Statement

H290 May be corrosive to metals.

(s)

H314 Causes severe skin burns and eye damage.

Corrosion Pictogram (s)

P234 Keep only in original container. **Precautionary**

P260 Do not breathe fume/gas/mist/vapours/spray. statement -

P280 Wear protective gloves/protective clothing/eye protection/face protection. Prevention P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. **Precautionary** P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

statement skin with water/shower. Response

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

Precautionary P405 Store locked up.

statement – Storage P406 Store in corrosive resistant container with a resistant inner liner.





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Precautionary

P501 Dispose of contents/container to an approved waste disposal plant.

statement -Disposal

3. Composition/information on ingredients

Liquid

Characterization

Ingredients Name CAS **Proportion Hazard Symbol Risk Phrase**

> Sulfuric acid 7664-93-9 52-98 % Water 7732-18-5 2-48 %

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not

breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed.

DO NOT INDUCE VOMITING. Seek immediate medical advice.

Skin Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes.

Ensure contaminated clothing is washed before re-use. Seek immediate medical advice /attention

depending on the severity.

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until Eye contact

advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Take care not

to rinse contaminated water into the non-affected eye. Seek immediate medical assistance. **First Aid Facilities** Maintain eyewash fountain and drench facilities and normal washroom in work area.

Advice to Doctor Treat symptomatically as for strong acids.

Protection for First Aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing or wear gloves.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764

766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion **Products**

Highly irritating/toxic gases and fumes, including toxic oxides of sulfur (SOx). Will react with water or steam to produce toxic and corrosive fumes and heat. Reacts with carbonates to generate carbon dioxide gas. Reacts with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively. Hydrogen may form upon contact with metals (danger of explosion!).

Specific Methods Use extinguishing media most appropriate for the surrounding fire.

When material is not involved in fire: Do not use water on material itself.

Specific hazards arising from the chemical

Does not burn but may produce poisonous and/or corrosive fumes upon heating. Heat of reaction may be enough to ignite combustible materials. Will react with water (some violently) releasing flammable, poisonous and/or corrosive gases and runoff. Contact with metals may evolve flammable hydrogen gas. Fire may produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways. May be transported in a molten form. Containers may explode when heated or contaminated with water.

Hazchem Code

Decomposition

Precautions in

Temp.

340 °C (100%).

Wear SCBA and acid-resistant chemical splash suit. Structural firefighter's uniform is NOT effective for

connection with Fire these materials.

6. Accidental release measures

Spills & Disposal

Neutralise with lime or sodium carbonate, adjust the pH to 6-10. For larger spills notify Emergency

Personal **Precautions** Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.

Use personal protective equipment listed in Section 8.

Clean-up Methods -**Small Spillages**

Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled

Absorb or contain liquid with sand, earth or spill control material, or neutralise with sodium carbonate or other alkali material.





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Large Spillages

Clean-up Methods - Seek expert advice on handling and disposal.

Environmental

Do not discharge into drains, surface water or ground water. Do not discharge to subsoil/soil.

Precautions

7. Handling and storage

Handling

Precautions for Safe Avoid ingestion and inhalation of gas/fumes/vapour/spray mist. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Keep locked up. Keep containers closed when not in use. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wear suitable protective clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Inform laundry personnel of contaminant's hazards. Discard contaminated shoes. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities. Contact with water will generate heat. When diluting, always add the acid to water; never add water to the acid. Do not allow water to get into the container because of violent reaction.

> Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis, moisture.

Conditions for safe storage, including any

incompatabilities

Ideally, sulfuric acid should be stored in isolation from all other chemicals in an approved acid or corrosives safety cabinet. Accessible only for authorized persons. Store in tightly closed containers, in a cool, dry, well-ventilated area with acid resistant floors and good drainage. Hygroscopic. Do not allow contact with water. Reacts violently with water. Protect against physical damage, freezing, direct sunlight and moisture. Store away from incompatible materials and water. May corrode metallic surfaces.

Separate from acids, alkalis, oxidizing agents, reducing agents, combustibles, sources of ignition and heat. Do not wash out container and use it for other purposes. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product. Inspect regularly for deficiencies such as damage or leaks.

Corrosiveness

Very corrosive to most metals including cast iron, steel, stainless steel, brass, aluminium, titanium, nickel and some alloys. The corrosivity of sulfuric acid solutions depends on factors such as concentration, temperature and acid impurities. The resistance of alloys to sulfuric acid corrosion increases with increasing chromium, molybdenum, copper and silicon content.

Many plastics do not resist concentrated acid well (greater than 50-60%). Teflon is the only common plastic that resists all acid concentrations.

Storage Regulations Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.

Storage **Temperatures**

Store at room temperature (15 to 23 °C recommended).

8. Exposure controls/personal protection

Sulfuric acid

Occupational Name

exposure limit values

STEL TWA

ppm

Footnote

<u>mg/m3</u> ppm mg/m3 3

Other Exposure Information

A time weighted average (TWA) has been established for Sulphuric acid (Safe Work Australia) of 1 mg/m³. The corresponding STEL level is 3 mg/m³. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Appropriate

Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted engineering controls average). In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source,

or other methods.

Respiratory **Protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. **Eye Protection**





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Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. **Hand Protection** Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and

maintenance. Recommendation: Excellent: Vinyl gloves. Good: Neoprene or nitrile rubber gloves. Fair: NR latex. (52-75%) Avoid skin contact when removing gloves from hands, do not touch the

gloves outer surface. Dispose of gloves as hazardous waste.

Fair: Nitrile gloves. Poor: NR latex, vinyl, or neoprene gloves. (75-98%)

Equipment

Hygiene Measures

Personal Protective Final choice of personal protective equipment will depend on individual circumstances and/or according

to risk assessments undertaken.

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, **Footwear**

Occupational protective footwear - Guide to selection, care and use.

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection **Body Protection**

against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other

protective equipment before storing or re-using.

9. Physical and chemical properties

Form Liquid

Appearance Clear, colourless, viscous (thick oily) liquid when pure, but yellowish to brownish when impure.

Odour Odourless, but has a choking odour if heated.

Decomposition

340 °C (100%).

Temperature Melting Point

-32.3 °C (52%); -29.5 °C (60%); -38 °C (67%); -4.5 °C (79%); 3 °C (81%); -6.5 °C (90%); -11.5 °C (91%);

-1.1 °C (98%).

Boiling Point 126 °C (52%); 140 °C (60%); 156 °C (67%); 197 °C (79%); 207 °C (81%); 255 °C (90%); 262 °C (91%);

327.2 °C (98%).

Solubility in Water Miscible (Soluble) in all proportions. CAUTION: Always add the acid to water. Exothermic reaction with

water. Addition to water generates significant heat. Addition of water can generate localised boiling and

spattering.

Solubility in Organic Soluble in all proportions in ethanol (decomposes).

Solvents

1.42 (52%); 1.5 (60%); 1.58 (67%); 1.72 (79%); 1.74 (81%); 1.82 (90%); 1.826 (91%); 1.8437 (98%). **Specific Gravity**

Strongly acidic. 1 N solution (~5% w/w) = 0.3; 0.1 N solution (~0.5% w/w) = 1.2; 0.01 N solution (~0.05% pН

w/w) = 2.1.

Vapour Pressure

<0.04 kPa (0.3 mmHg) at 25 °C (100%).

Vapour Density (Air=1)

The highest known value is 3.4 (Air = 1 at boiling point of sulfuric acid) (100% Sulfuric acid). Weighted

average: 2.71 (Air = 1) (75% (v/v)); 2.92 (Air = 1) (82.6%).

Probably very slow. **Evaporation Rate**

Odour Threshold >1 ppm (Sulfuric acid 100%).

Viscosity 25 centipoises (25 mPa.s) at 25 °C (100%).

50 dynes/cm at 25 °C (100%). **Surface Tension**

Flammability Non combustible material. This material increases the risk of fire and may aid combustion. Strong

dehydrating agent which may cause ignition of combustible/organic/finely divided/other materials on contact. Contact with moisture/water, or with strong alkalies may generate heat. Flammable hydrogen

gas may be produced on prolonged contact with metals such as aluminium, tin, lead and zinc.

Contact with most metals causes formation of flammable and explosive hydrogen gas. Exothermic **Explosion Properties** reaction with water. Containers may explode when heated or if contaminated with water. Slightly

explosive in presence of oxidizing materials. Mixtures of sulfuric acid and any of the following can explode: p-nitrotoluene, pentasilver trihydroxydiaminophosphate, perchlorates, alcohols with strong hydrogen peroxide, ammonium tetraperoxychromate, mercuric nitrite, potassium chlorate, potassium permanganate with potassium chloride, carbides, nitro compounds, nitrates, carbides, phosphorous, iodides, picrates, fulminates, dienes, alcohols (when heated). Nitramide decomposes explosively on contact with concentrated sulfuric acid. 1,3,5-Trinitrosohexahydro-1,3,5-triazine + sulfuric acid causes

explosive decomposition.

Molecular Weight

98.08

Saturated Vapour Concentration

< 395 ppm (0.04%) at 25 °C (calculated) (100% sulfuric acid).

Taste: Strong, marked acid taste. Other Information





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Conversion Factor: 1 ppm = 4 mg/m³; 1 mg/m³ = 0.25 ppm at 25 °C (calculated). Critical Temperature: Approx. 670 °C (93%); approx. 655 °C (100%).

10. Stability and reactivity

Chemical Stability

Stable under normal temperatures pressures and conditions of storage and handling. Concentrated solutions (>90%) react violently with water, spattering and liberating heat.

Conditions to Avoid

Exposure to moist air, moisture, or water (Note: Use great caution in mixing with water due to heat evolution that causes explosive spattering. Always add the acid to water, never the reverse.), metals, excess heat, combustible materials, organic materials, oxidizers, amines, bases and incompatible materials.

Incompatible **Materials**

Water, combustible materials, oxidizing agents, reducing agents, metals as powders, metals as non powders (yields hydrogen gas), metal alloys, metal compounds, acids, alkalis, organic materials, organic solvents, alkali metals, alkaline earth metals, alkaline earth compounds, alkali hydroxides solutions, chlorates, perchlorates, permanganates, carbides, cyanides, nitrides, sulfides, fulminates, picrates, nitrates, nitriles, halogens, halogen-halogen compounds, salts of oxyhalogenic acids, acetylides, oxides and hydrides, anilines, organic nitro compounds, peroxi compounds, acetic anhydride, acetone cyanhydrin, acetone + nitric acid, acetone + potassium dichromate, acrolein, allyl alcohol, allyl chloride, 2-aminoethanol, ammonia, ammonium triperchromate, n-butyraldehyde, diisobutylene, epichlorohydrin, ethylene cyanohydrin, ethylene diamine, ethylene glycol, ethylenimine, isoprene, lithium silicide, pentasilver trihydroxydiaminophosphate, phosphorus, phosphorus isocyanate, beta-propiolactone, and

Hazardous Decomposition Products Possibility of

Irritating and highly toxic fumes and gases, including oxides of sulfur. Reaction with water or steam may generate much heat which will increase the concentration of fumes in the air, and may produce toxic and corrosive fumes. Contact with most metals causes formation of flammable and explosive hydrogen gas. Very reactive substance. Concentrated solutions (>90%) react violently with water, spattering and hazardous reactions liberating heat. Corrosively attacks most metals liberating flammable hydrogen gas, (potential explosion). The concentrated acid oxidizes, dehydrates, or sulfonates most organic compounds. Sulfuric acid reacts vigorously, violently or explosively with many organic and inorganic chemicals including water, acrylonitrile, alkali solutions, carbides, chlorates, fulminates, nitrates, perchlorates, permanganates, picrates, powdered metals, metal acetylides or carbides, epichlorohydrin, aniline, ethylenediamine, alcohols with strong hydrogen peroxide, chlorosulfonic acid, cyclopentadiene, hydrofluoric acid, nitromethane, 4-nitrotoluene, phosphorus (III) oxide, potassium, sodium, ethylene glycol, isoprene, styrene. Acetaldehyde and allyl chloride may polymerize violently in the presence of sulfuric acid. Many plastics do not resist concentrated acid well (greater than 50-60%). Hazardous gases, such as hydrogen cyanide, hydrogen sulfide and acetylene, are evolved on contact with chemicals such as cyanides, sulfides and carbides. Reacts with carbonates to generate carbon dioxide

Hazardous Polymerization

Acetaldehyde and allyl chloride may polymerize violently in the presence of sulfuric acid.

11. Toxicological Information

Ingestion

Corrosive. Harmful if swallowed. Ingestion can cause severe burns to the mouth, throat, oesophagus and stomach and permanent damage to the digestive tract, resulting in discomfort and severe pain, extensive tissue damage, the danger of perforation of esophagus and stomach, gastrointestinal bleeding, oedema of the glottis, necrosis and scarring, and in severe cases, collapse and death. Symptoms may include sore throat, difficulty swallowing, intense thirst, general feeling of sickness, nausea, vomiting, diarrhoea, severe swelling of the larynx and skeletal paralysis affecting the ability to breathe, circulatory collapse, with clammy skin, weak and rapid pulse, shallow respiration, scanty urine, circulatory shock and convulsions and subsequent death. Circulatory shock is often the immediate cause of death. It may also cause systemic toxicity with acidosis. Small amounts of acid which may enter the lungs during ingestion or vomiting (aspiration) can cause serious lung injury and death. After a latency period of several weeks, possibly pyloric stenosis.

Inhalation

Corrosive. Harmful if inhaled. Because its vapour pressure is negligible, it exists in the air only as a mist or spray. Inhalation of mists, aerosols or sprays can cause severe irritation or corrosive damage to the respiratory tract and mucous membranes with sore throat, burning pain in the nose and throat, coughing, wheezing, laryngitis, bronchitis, shortness of breath, laboured breathing, dental erosion, headache, nausea, and vomiting. Exposure may impair lung function and cause mucostasis (reduced mucous clearance). The degree and severity of respiratory effects are influenced by factors such as the physical state and particle size of the aerosol, deposition site, concentration and humidity. Long term lung damage may result from a severe short term exposure. Inhalation may be fatal as a result of spasm, inflammation, oedema of the larynx and bronchi, chemical pneumonitis, and delayed pulmonary





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oedema. The symptoms of pulmonary oedema, including coughing and shortness of breath, can be delayed until hours or days after the exposure and are aggravated by physical exertion. May affect cardiovascular system (hypotension, depressed cardiac output, bradycardia). Circulatory collapse with clammy skin, weak and rapid pulse, shallow respiration, and scanty urine may follow. Circulatory shock

is often the immediate cause of death.

Skin Corrosive. Causes severe skin irritation and burns, which may result in permanent scarring. Burns may

be 2nd or 3rd degree. Extensive acid burns can result in death. Symptoms of redness, irritation, pain, blistering, tissue destruction, scabs, sloughs, local necrosis, and membrane ulceration can occur. Continued contact can cause tissue necrosis. High mist or aerosol concentrations may cause redness,

irritation and burns to the skin if contact is prolonged. The severity of injury depends on the concentration of the solution and the duration of exposure. May be harmful if absorbed through the skin. May cause circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty

urine. Circulatory shock is often the immediate cause of death.

Eye Corrosive. Causes severe eye irritation and severe eye burns. Contact can cause blurred vision,

redness, swelling, pain, corneal lesions, permanent corneal opacification and irreversible eye injury, including blindness. Risk of serious damage to eyes. The severity of injury depends on the concentration of the solution and the duration of exposure. Sulfuric acid mists and aerosols are expected to be

irritating.

Carcinogenicity Occupational exposure to strong-inorganic-acid mists containing sulfuric acid is evaluated in the IARC

Monographs (Vol. 54; 1992) as Group 1: Carcinogenic to humans.

Chronic Effects

Prolonged or repeated inhalation may affect behaviour (muscle contraction or spasticity), urinary system

(kidney damage), and cardiovascular system, heart (chest pain, ischemic heart lesions), and respiratory system/lungs (nosebleeds, nasal congestion, perforation of the nasal septum, bronchial hyperreactivity, bronchitis, pulmonary oedema, lung damage), teeth (dental discoloration, erosion). Exposures to high concentrations (reportedly up to 16 mg/m³) cause dental erosion. Etching of teeth may occur after a few weeks exposure, progressing to erosion after a few months exposure. Dental etching and erosion occurred about 4 times as frequently in a high exposure group (over 0.3 mg/m³) compared to a low exposure group (below 0.07 mg/m³). Prolonged or repeated exposure to sulfuric acid mists may cause various lesions of the skin, tracheobronchitis, stomatitis, conjunctivitis, or gastritis. Prolonged or repeated skin contact may cause dermatitis (red, itchy, dry skin), an allergic skin reaction. Prolonged or

repeated skin contact may cause dermatitis (red, itchy, dry skin), an allergic skin reaction. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed. Occupational exposure to strong increasing and mixture containing outfuring and in correspond to humans.

inorganic acid mists containing sulfuric acid is carcinogenic to humans.

Respiratory Irritation Human volunteers exposed to sulfuric acid for 5-15 minutes noticed no odour, or irritation below 1

mg/m³. All volunteers noticed the exposure at 3 mg/m³ and at 5 mg/m³ some people found it objectionable. A deep breath usually produced coughing and respiratory changes were reported.

Tolerance to sulfuric acid can occur.

In another study, volunteers exposed to high levels (39 mg/m³ dry mist and 21 mg/m³ wet mist sulfuric acid) for 1/2-1 hour reported severe symptoms of irritation of the upper airways and signs of bronchial obstruction. These symptoms persisted for several days in two volunteers. Occupational exposure to sulfuric acid fumes in a closed space, produced injury to the upper

airways, and fluid accumulation and bleeding in the lungs to one worker. Most lung function tests had returned to normal after 6 weeks.

12. Ecological information

Ecotoxicity Harmful effect on aquatic organisms. Harmful effect due to pH shift. Toxic effect on fish and algae. Does

not cause biological oxygen deficit. Endangers drinking-water supplies if allowed to enter soil and/or

waters in large quantities. Neutralization possible in waste water treatment plants.

Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances.

Environmental Protection

Do not allow to enter waters, waste water, or soil!

Acute Toxicity - Fish L. macrochirus LC50: 16-29 mg/l/ 96 h.

Acute Toxicity -

Daphnia magna EC50: 29 mg/l /24 h (calculated on the pure substance).

Daphnia

13. Disposal considerations

Disposal Considerations

Dispose of according to relevant local, state and federal government regulations.

Waste Disposal Neutralise remaining product with lime or soda ash, adjusting pH to 6-10. Flush to sewer as a greatly

diluted solution.

Print Date: 5/04/2018 CS: 1.7.2





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14. Transport information

Transport Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Information

8

Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8

dangerous goods are acids. Class 7; and are incompatible with food and food packaging in any quantity.

U.N. Number

UN proper shipping SULFURIC ACID

name

Transport hazard

class(es)

Hazchem Code

2P

Packaging Method 3.8.8RT8

Packing Group Ш **EPG Number** 8A2 **IERG Number** 40

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule S₆

16. Other Information

Literature References

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Standards Australia/Standards New Zealand, 2010.

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Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment [NOHSC:1003(1995) 3rd Edition]'.

Contact Person/Point

Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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Structural Formula

Empirical Formula & H2SO4 (pure substance)

...End Of MSDS...

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