

MATERIAL SAFETY DATA SHEET

Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

COMPANY Delshine Chemicals
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BRAND NAME – Sulphuric Acid 34%

TRADE NAME – Sulphuric Acid 34 %

SHIPPING NAME (section 14)

USE – PH Adjustment In swimming pools , Battery acid , Tanning , Metal Cleaning

RESTRICTIONS – Store away from combustible materials and metal.

Section 2 HAZARDS CLASSIFICATION / IDENTIFICATION

CLASSIFIED AS : **HAZARDOUS** – According to the criteria of NOHSC and classified as a dangerous good according to the ADG code.

UN NUMBER : 2796

Emergency Overview : Causes severe burns. May be fatal if swallowed. Strong inorganic mist containing sulfuric acid can cause cancer. Inhalation may cause damage to respiratory tract lungs.

Swallowed : Can kill if swallowed. Will cause severe damage to the mucous membranes. May cause severe burns to mouth , throat and stomach. Ingestion can cause nausea , vomiting and abdominal pain.

Eyes : Corrosive to eyes ; contact can cause corneal burns. Permanent eye damage, including loss of sight , may occur.

Skin : Highly corrosive to skin. Causes severe burns.

Inhaled : Harmful by inhalation. Possible harmful corrosive effects. High concentrations of vapour can cause severe irritation of the respiratory tract.

CONTINUE HAZARDS CLASSIFICATION / IDENTIFICATION

- RISK PHRASES :** R35 – Causes severe burns.
R41 – Risk of serious eye damage
- SAFETY PHRASES:** S1 / 2 – Keep locked up and out of reach of children.
S26 - In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
S30 - Never add water to the product.
S36/37/39 Wear suitable protective clothing ,gloves & eye face protections
S45 - In case of accident or you feel unwell seek medical advice immediately (show label whenever possible)

Section 3 COMPOSITION / INFORMATION OF INGREDIENTS

| Chemical Entity: | CAS No: | Proportion (% mass) |
|------------------|------------|---------------------|
| Sulfuric Acid | 7664-93-9 | 34 |
| Water | 7732-18-15 | 66 |

Section 4 FIRST AID MEASURES

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVER EXPOSURE.

Eyes : Immediately flush thoroughly with water for at least 15 minutes.

Inhalation : Remove to fresh air ; give artificial respiration if breathing has stopped.

Ingestion : Do not induce vomiting ; get immediate medical attention. If conscious give water , milk , or milk of magnesia.

Remove contaminated clothing and wash before reuse.

First Aid Facilities: **Ensure an eye bath and safety shower are available and ready for use.**

Section 5 FIRE FIGHTING MEASURES

Flash point (°C) Noncombustible

Flammable Limits LEL (%) : Not available ; (%) : Not available

Extinguishing Media : Use any suitable media for adjacent material.

Fire Fighting Procedures : Wear self contained breathing apparatus and protective clothing.

Fire and Explosion Hazards : Thermal decomposition produces toxic fumes.

HAZCHEM CODE : 2R

Section 6**ACCIDENTAL RELEASE MEASURES**

Spill Response : Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its sources , if this can be done with out risk. Take up and containerize for proper disposal as described under Disposal. Comply with Federal , State and local regulations on reporting releases. Use soda ash to neutralize small spills.

Section 7**HANDLING AND STORAGE**

Storage: Store in high density polyethylene or glass fibre-reinforced plastic tanks that Conforms to AS2634-1983 or other approved standards. Keep container closed. Store in a cool area away from combustible materials or metal powders.

Handling : Do not breathe vapour or mist. Do not get in eyes , on skin or on clothing.

Class : 8

Section 8**EXPOSURE CONTROLS / PERSONAL PROTECTION**

NOHSC Exposure - Sulfuric Acid : TWA 1 mg/m³ , STEL 3 mg/m³

Odour Threshold : > 1mg/m³ IDLH Value: 80mg/m³

Respiratory Protection : Combination particulate / gas respirator , Class B , (Inorganic vapour). If workplace exposure limits of product or any component is exceeded, an AS1715/1716 approved air supplied respirator is advised.

Engineering and / or administrative controls should be implemented to reduce exposure. Material must be handled or transferred in an approved fume hood or with equivalent ventilation. Protective gloves must be worn to prevent skin contact. (Neoprene or equivalent) Safety glasses with side shields must be worn at all times. Impervious protective clothing should be worn to prevent skin contact.

Work / Hygiene Practices : Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

Prolonged exposure to mist vapours can cause erosion of teeth , chronic irritation of eyes, nose and throat and chronic inflammation of airways. 77-98% acid causes 2nd and 3rd degree burns of skin on short contact and is very injurious to the eyes.

Section 9 PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE Colourless Liquid with acid odour

VAPOUR PRESSURE – not available

BOILING POINT °C 330°C **VAPOUR DENSITY** – not available

FREEZING POINT °C - not available **SOLUBILITY** 100% soluble in water

SPECIFIC GRAVITY – 1.25 (white =1)

ADDITIONAL INFORMATION

MELTING POINT - - 55.3

Section 10 STABILITY & REACTIVITY

Stability : Yes

Hazardous Polymerisation : Does not occur

Hazardous Decomposition : Sox

Conditions to Avoid : May react with powdered metals to form flammable hydrogen gas.

Materials to Avoid : Water (if conc.> 34%) Bases , Oxidizers , Reducing agents , cyanides , acetic acid and combustible materials

Section 11 TOXICOLOGICAL INFORMATION

Toxicity Data : Oral LD50 (rat) : 2140 mg/kg

Cited in Registry of Toxic Effects of Chemical Substances (RTECS). In October 1992 the International Agency of Research on Cancer (IARC) classified occupational exposure to strong inorganic acid mist containing sulphuric acid as carcinogenic to humans , ie a group 1 carcinogen.

Section 12 ECOLOGICAL INFORMATION

Environmental Fate : When released into the soil, this material may leach into groundwater. When released into the air this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air this material may be removed from the atmosphere to a moderate extent by dry deposition. Environmental Toxicity : LD50 Flounder 100 to 330mg/1/48 hr aerated water /conditions of bioassay not specified; Shrimp 80 to 90 mg/1/48hr aerated water conditions of bioassay not specified ; LC50 Prawn 42.54 ppm/48hr aerated salt water conditions of bioassay not specified. Bluegill in fresh water : 24.5 ppmk/24hr conditions of bioassay not specified. This material may be toxic to aquatic life.

Section 13 DISPOSAL CONSIDERATIONS

Specified Technology - Neutralize to pH 6-9. Contact your local permitted waste disposal site for permissible treatment sites.

Section 14 TRANSPORT INFORMATION

UN NUMBER : 2796

UN PROPER SHIPPING NAME : Sulfuric Acid (< 51%)

CLASS: 8 PACKING GROUP: 11 HAZCHEM CODE: 2R

SUBSIDIARY RISK

SUSDP SCHEDULE 6

Section 15 REGULATORY INFORMATION

SUSDP Labelling : Schedule 6 Poison. **First Aid** : For advice contact Poisons Information Centre (Phone Australia 131 126) or a doctor at once. If swallowed DO NOT induce vomiting. If in eyes hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor or for at least 15 minutes. If skin or hair contact occurs remove contaminated clothing and flush skin and hair with running water .

Safety Directions Corrosive Avoid contact with eyes and skin.

NOHSC Labelling- C Corrosive R35 Causes severe burns,R41 Risk of serious damage to eyes. S1/2 Keep locked up and out of reach of children, S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice, S30 Never add water to this product , S36/37/39 Wear suitable protective clothing, gloves and eye face protection S45 In case of accident or you feel unwell seek medical advice immediately (show label whenever possible)

Section 16

OTHER INFORMATION

NFPA Hazard Ratings : Health : 2 ; Flammability : 0 ; Reactivity : 0

DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET :

25th February 2016

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AUTHORISATION FOR ISSUE

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DATE

Les Buss

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