



SAFETY DATA SHEET

PRODUCT NAME: SULPHURIC ACID 99%

Issue Date: 14 November 2025

SECTION 1: IDENTIFICATION

Product Name: Sulphuric Acid
Other Names: Dihydrogen Sulphate, Dipping Acid, Oil of Vitriol, Battery Acid
Product Code: CSA20, ZSULA, CBA126020, CBA12601, CBA128020, CBA128520
Uses: Manufacture of super phosphate fertilizer, inorganic and petro-chemicals, explosives and pigments. Component of heavy-duty metal cleaners and pickles. In manufacture of rayon, cellulose film. As battery electrolyte and also in electroplating processes. pH control additive.
Restrictions: Restricted to Workplace only
Supplier: HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton
Phone: 079744971 Web: www.hamchem.co.nz Email: info@hamchem.nz

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

SECTION 2: HAZARD IDENTIFICATION



GHS Classifications

Corrosive to Metals – Category 1
Acute Inhalation Toxicity – Category 4
Skin Corrosion – Category 1B
Serious Eye Damage – Category 1
Carcinogenicity – Category 1
Specific Target Organ Toxicity (Repeated Exposure) – Category 1
Specific Target Organ Toxicity (Single Exposure) – Category 3 (respiratory tract irritation)

Signal Word: Danger

Hazard Statements

H290 – May be corrosive to metals
H314 – Causes severe skin burns and eye damage
H318 – Causes serious eye damage
H332 – Harmful if inhaled
H350 – May cause cancer
H372 – Causes damage to organs through prolonged or repeated exposure
H335 – May cause respiratory irritation

Prevention

P234 – Keep only in original packaging
P260 – Do not breathe dust or mists
P271 – Use only outdoors or in a well-ventilated area
P264 – Wash exposed skin thoroughly after handling
P280 – Wear protective gloves/protective clothing/eye protection/face protection

Recommendations, suggestions or statements made in the bulletins are intended for the assistance of our customers. They are based upon our experience and judgement but must not be regarded as amounting to a legal warranty or as involving any liability on our part and must be read in conjunction with and subject to our Conditions of Sale which apply to goods supplied by us.

HamChem Ltd, 75 Ruffell Road, Hamilton, New Zealand. Phone: 07-974-4971 Email: info@hamchem.nz Web: www.hamchem.nz

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substance by having the patient drink milk or water. If the trachea has been damaged, tracheostomy may be required. For oesophageal burns begin broad-spectrum antibiotics and corticosteroid therapy. Intravenous fluids will be required if oesophageal or gastric damage prevents ingestion of liquids. Long-range therapy will be directed toward preventing or treating oesophageal scars and strictures.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media: Dry chemical, foam or carbon dioxide. Do NOT use water on concentrated sulphuric acid. However, water spray may be used to keep fire exposed containers cool.

Specific hazards: Non-flammable. May evolve toxic gases (Sulphur oxides) when heated to decomposition. May evolve flammable hydrogen gas in contact with some metals.

Decomposition Temperature: Not available.

Advice for Firefighters: Evacuate area and contact emergency services. Toxic gases may be evolved in fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use water fog to cool intact containers and nearby storage areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Wear Personal Protective Equipment (PPE) as detailed in Exposure Controls/Personal Protection section of SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

Methods and Materials for Containment & Cleaning Up: Contain spillage, then cover/absorb spill with sodium bicarbonate or 50-50 mixture of sodium carbonate and calcium hydroxide. Collect for complete neutralization and appropriate disposal.

Environmental Precautions: Prevent product from entering drains and waterways.

SECTION 7: HANDLING & STORAGE

Precautions for Safe Handling: Do NOT allow clothing wet with material to stay in contact with skin. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure is present. Use in a well-ventilated area. **WARNING:** To avoid violent reaction, ALWAYS add material to water and NEVER water to material.

Conditions for safe storage, including any incompatibilities: Containers – DO NOT use aluminum or galvanised containers. Use lined metal can, lined metal pail/can, plastic pail, poly-liner drum, packing as recommended by manufacturer. Containers for low viscosity materials such as drums and jerry cans must be of the non-removable head type. When a can is to be used as an inner package, the can must have a screwed enclosure.

Storage: Check regularly for spills and leaks. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure standards: NZ Workplace Exposure Standards (WES) have been set for this substance:

Sulphuric Acid, TWA 0.1mg/m³

Engineering controls: Avoid inhalation. Use in well ventilated areas. When an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

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SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data:

Oral (rat) LD50: 2140mg/kg
Inhalation (rat) LC50: 510mg/m³/2h

Toxicology Information: No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. The symptoms or effects that may arise if the product is mishandled and if overexposure occurs are:

Ingestion: Swallowing can result in nausea, vomiting, diarrhea, abdominal pain, and chemicals burns to the gastrointestinal tract.

Inhalation: Breathing in mists or aerosols will produce respiratory irritation. May cause pulmonary oedema at high concentrations. Overexposure may result in death.

Skin: Contact with skin will result in severe irritation. Corrosive to skin – may cause skin burns.

Eye: A severe eye irritant. Corrosive to eyes; can cause corneal burns. Contamination of eyes can result in permanent injury.

Health Hazard: Sulphuric Acid (98% solution) is extremely corrosive, irritating and toxic leading to severe burns and rapid destruction of tissue.

Chronic Effects: For the component Sulphuric Acid: Repeated overexposure may lead to chronic conjunctivitis, lung damage and dental erosion. The International Agency for Research on Cancer (IARC) have concluded that occupational exposure to strong inorganic acid mists containing sulphuric acid is carcinogenic to humans, causing cancer of the Larynx and to a lesser extent, the lung. No direct link has been established with sulphuric acid, itself, and cancer in humans. Exposure to any mist or aerosol during the use of this product should be avoided and exposure should not exceed the exposure standard.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity (Aquatic & Terrestrial):

LC50 Flounder: 100 to 330mg/L/48hr
LC50 Shrimp: 80 to 90mg/L/48hr
LC50 Prawn: 42.5ppm/48hr

Sulphuric acid is harmful to aquatic life in very low concentrations. May cause corrosion and deterioration of many common materials found in the environment (e.g. steel, limestone)

Persistence and Degradability: No information provided.

Mobility: No information provided.

Bio accumulative Potential: No information provided.

Other Adverse Effects: No information provided.

SECTION 13: DISPOSAL CONSIDERATIONS

Recycle wherever possible, otherwise ensure that contents/container are disposed of to an approved waste facility in accordance with local, regional and national regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: 1830
Proper Shipping name: Sulphuric Acid >51%
Dangerous Goods Class: Class 8 - Corrosive
Packing group: II
Hazchem Code: 2P

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