

SAFETY DATA SHEET

PRODUCT NAME: SULPHURIC ACID

Issue Date: October 22

IDENTIFICATION

Product Name: Sulphuric Acid
Other Names: Dihydrogen Sulphate, Dipping Acid, Oil of Vitriol
Product Code: CSA, ZSULA
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

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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Personal protective equipment:

Eye/Face – Safety glasses with unperforated side shields may be used where continuous eye protection is needed, such as when handling bulk quantities, where there is a danger of splashing, or if the material may be under pressure. Chemical goggles – Whenever there is a danger of the material coming into contact with the eyes; goggles must be properly fitted. Full Face Shield – (20cm, 8 in minimum) may be required for supplementary but never for primary protection of eyes; these give face protection. Alternatively, a gas mask may replace splash goggles and face shields.

Hands – Elbow Length PVC Gloves – Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity.

Body – When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots. Wear coveralls – when using large quantities or where heavy contamination is likely, wear rubber boots and a PVC apron. In a laboratory situation, wear a laboratory coat.

Respiratory – Where an inhalation risk exists, wear a type B (inorganic gases and vapours) respirator. If spraying, with prolonged use, or if in confined areas, wear an air-line respirator.

PHYSICAL & CHEMICAL PROPERTIES

Form:	Liquid
Appearance:	Liquid
Colour:	Colourless to brown
Odour:	Faint acid odour
Decomposition Temperature:	Not available
Melting Point:	Not available
Freezing Point:	5°C
Boiling Point:	310°C
Specific Gravity:	1.84 @ 20°C
pH (1% solution):	<1
Vapour Pressure:	Not available
Vapour Density:	Not available
Evaporation Rate:	Not available
Viscosity:	Not applicable
Volatile Component:	Not available
Flash Point:	Not applicable
Auto-ignition Temperature:	Not applicable
Explosion Limit – Upper:	Not available
Explosion Limit – Lower:	Not available
Molecular Weight:	Not applicable

STABILITY & REACTIVITY

Reactivity: Reacts exothermically on dilution with water. Reacts exothermically with strong alkali materials. Corrodes metals.

Chemical Stability: Stable at ambient conditions of use and storage.

Conditions to Avoid: Avoid contact with foodstuffs. Avoid exposure to moisture. Avoid contact with water.

Incompatible Materials: Avoid contact with foodstuffs. Avoid exposure to moisture. Avoid contact with water.

Hazardous Decomposition Products: Releases Sulphur dioxide at extremely high temperatures.

Possibility of Hazardous Reactions: Polymerisation is not expected to occur. Exothermic reaction with water which may cause violent splattering. Attacks many metals liberating explosive hydrogen gas.

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