

MATERIAL SAFETY DATA SHEET

HAZARDOUS SUBSTANCE ACCORDING TO WORKSAFE AUSTRALIA

IDENTIFICATION			
PRODUCT NAME		UN NUMBER	2796
NO FUME ACID		DANGEROUS GOODS CLASS	8 (Corrosive)
		SUBSIDIARY RISK	N/A
OTHER NAMES	34% Sulphuric Acid	HAZCHEM CODE	2R
MANUF. CODE	5134	POISONS SCHEDULE	6
		PACKING GROUP	II

USES

Fertilisers, explosives, battery acid, electroplating, dyes, drugs, detergents, adhesives, plastics, paints, tanning, food processing, pH adjusting of swimming pool water, metal cleaning.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance	Transparent viscous liquid.
Formula	H ₂ SO ₄
Specific Gravity	1.25
Flash Point	N/A
Boiling Point	330°C
Melting Point	N/A
Solubility in Water	100% soluble in water. Soluble in most organic solvents (may react).
Other Properties	Very corrosive. Choking fume if heated, hygroscopic. Soluble in most organic solvents (may react).

INGREDIENTS

CHEMICAL NAME	CAS NUMBER.	PROPORTION
SULPHURIC ACID	[7664-93-9]	>34%
WATER	[7732-18-5]	<66%

HEALTH HAZARD INFORMATION

HEALTH EFFECT

Ingested	Ingestion can be fatal. May kill or cause severe damage to mucous membranes, burns to the mouth, throat, oesophagus and stomach due to corrosive effect. Ingestion can result in abdominal pain.
Eye Contact	Severe irritation and burns due to corrosive effect. Contact can cause corneal burns. Permanent eye damage, including loss of sight may occur.
Skin Contact	Highly corrosive to skin. May cause irritation and severe burns with scarring.
Inhaled	Irritation of the respiratory tract due to fumes when heated. Severe lung damage and poisoning is a possibility.
Chronic Health Effects	Prolonged exposure to mists and vapours can cause erosion of teeth, chronic irritation of eyes, nose and throat, and chronic inflammation of airways. Can cause 2 nd and 3 rd degree burns of skin on contact and is very injurious to the eyes.

FIRST AID

Ingested	Rinse mouth thoroughly with water immediately. Give the victim large quantities of water or milk to drink. DO NOT induce vomiting. Seek medical attention immediately.
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Eye Contact	Flush eyes with water immediately for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of all eye and lid tissue. Seek immediate medical attention.
Skin Contact	Avoid contact with this chemical. Remove affected clothing including footwear and wash affected area thoroughly copious quantities of water immediately. Treat skin and clothing with 1% sodium bicarbonate solution to neutralise acid residues. If irritation occurs, seek medical advice.
Inhaled	Remove from exposure to fresh air at once. Keep victim warm and at rest. If breathing has stopped, perform artificial respiration. If breathing is difficult, administer oxygen. Keep the victim warm and in a reclining position. Seek medical attention immediately.
Facilities	Ensure an eye bath and safety shower is available.

ADVICE TO DOCTOR

Treat symptomatically. Consult Poisons Information Centre.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS

Exposure Standard: Time Weighted Average (TWA) = 1mg/m³

Exposure Standard: Short Term Exposure Limit (STEL) = 3mg/m³.

ENGINEERING CONTROLS

PRODUCT SHOULD BE USED IN WELL-VENTILATED AREA. HANDLING EQUIPMENT SHOULD BE CONSTRUCTED OF CORROSION RESISTANT MATERIALS. SELF-CONTAINED BREATHING APPARATUS MAY BE NEEDED FOR PROLONGED PERIODS OF EXPOSURE.

PERSONAL PROTECTION

USER SHOULD WEAR PROTECTIVE PVC GLOVES, OVERALLS, SPLASH APRON AND RUBBER BOOTS. SAFETY GLASSES, CHEMICAL GOGGLES OR FACE SHIELD SHOULD BE WORN AS APPROPRIATE.

FIRE/EXPLOSION HAZARD

THIS PRODUCT IS CONSIDERED NON-COMBUSTIBLE. CONTACT WITH MOISTURE/WATER OR STRONG ALKALIS MAY GENERATE HEAT. CONTACT WITH INTENSE HEAT MAY PRODUCE TOXIC GASES (OXIDES OF SULPHUR). CONTACT WITH METALS EVOLVES EXPLOSIVE HYDROGEN GAS.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

STORE IN A WELL-VENTILATED AREA AWAY FROM OTHER CHEMICALS. STORAGE VESSEL SHOULD BE CONSTRUCTED OF A SUITABLY RESISTANT MATERIAL. SAFETY SHOWERS AND EYEWASH FACILITIES SHOULD BE AVAILABLE IN STORAGE AREAS.

SPILLS AND DISPOSAL

1. Move people away from area. Move upwind.
1. Avoid contact with chemicals. Wear full protective clothing including a self-contained breathing apparatus.
2. Contain leaks if possible using sand or earth. Prevent run-off into drains and waterways.
3. Neutralise remaining traces of material with lime or soda ash, adjusting pH to 6-10. Dispose of in accordance with all Local, State and Federal regulations. Flush neutralised spills as a greatly diluted solution to sewers.
5. Notify government occupational health and environmental authorities.

FIRE/EXPLOSION HAZARD

Not combustible. In case of fire, proceed as follows:

1. Move people away from area. Move upwind as toxic gas and acid fumes may be given off.
2. Inform fire brigade and police. Tell them location, material and quantity.
3. If available, spray fire with carbon dioxide extinguisher.

OTHER INFORMATION

HIGHLY TOXIC TO AQUATIC LIFE. AVOID CONTAMINATING WATERWAYS. THE PRODUCT IS STRONGLY ACIDIC AND HENCE MAY REACT WITH METALS TO PRODUCE HYDROGEN, A FLAMMABLE GAS.

CONTACT POINT

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IMPORTANT NOTES

- The data in this Chemical Safety Data Sheet are correct at the time of issue and relate only to the specified chemical. They do not relate to use in combination with any other material or in any process.
- Telford Industries reserves the right to change the chemical specifications without notice.