

1. Product and Company Identification

www.rxmarine.com

Product Name **Sulphuric Acid 0.1N**
Product Type **RXSOL-60-6286-500**

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Phone +91 22 65113333/ 5555 / 9999 / 27611360 / 27815540
Fax +91 22 2781 1318 ::::AOH :0091 9322594669
Email mail@rxmarine.com

2. Composition / Information on ingredients

www.rxmarine.com

Name	CAS #	% by Weight
Sulfuric acid	7664-93-9	0.49
Water	7732-18-5	99.5

Toxicological Data on Ingredients : Sulfuric acid: ORAL (LD50): Acute: 2140 mg/kg [Rat.].
VAPOR (LC50): Acute: 255 ppm 4 hour(s) [Rat.].

3. Hazards Identification

www.rxmarine.com

Potential Acute Health Effects

Extremely hazardous in case of eye contact (irritant), of ingestion. Mist may produce tissue damage of eyes, mouth and respiratory burns. Inhalation of the spray may irritate the respiratory tract, characterized by coughing, shortness of breath. Inflammation of the eyes, watering, and itching. Skin inflammation, scaling, reddening, or, occasionally, blistering.

Extremely hazardous in case of eye contact (irritant), of ingestion. May irritate skin. Non-permeator by skin. C. available. MUTAGENIC TERATOGENIC EFFECTS: N TOXICITY: Not available. The membranes. Repeated or prolonged exposure may produce target organs damage. Inhalation of spray mist may produce chronic irritation. Repeated or prolonged

Potential Chronic Health Effects

produce respiratory tract irritation, bronchial infection. Repeated or prolonged exposure may lead to chronic respiratory irritation.

4. First Aid Measures

www.rxmarine.com

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

5. Fire-fighting Measures

www.rxmarine.com

Flammability of the Product

Non-flammable.

Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product Not available. Risks of explosion
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

6. Accidental Release Measures

www.rxmarine.com

Small Spill:

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill:

Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. Handling and Storage

www.rxmarine.com

Precautions:

Keep container dry. Do not breathe gas/fumes/ vapour/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as alkalis. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

Storage:

May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package. Corrosive materials should be stored in a separate safety storage cabinet or room.

8. Exposure controls and personal protection

www.rxmarine.com

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection:

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Sulfuric acid TWA: 1 STEL: 3 (mg/m³) from ACGIH Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

www.rxmarine.com

Physical state and appearance

Liquid.

Odor

Odorless.

Taste

Not available.

Molecular Weight

Not applicable.

Color

Clear Colorless.

pH (1% soln/water)

2 [Acidic.]

Boiling Point

The lowest known value is 100°C

Melting Point

Not available.

Critical Temperature

Not available.

Specific Gravity

The only known value is 1 (Water)

Vapor Pressure

The highest known value is 17.53

Vapor Density

The highest known value is 0.62

Volatility

Not available.

Odor Threshold

Not available.

Water/Oil Dist. Coeff.

The product is much more soluble

Ionicity (in Water)

Not available.

Dispersion Properties

See solubility in water.

Solubility

Easily soluble in cold water, hot water, diethyl ether, n-octanol.

10. Stability and reactivity

www.rxmarine.com

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available

Incompatibility with various substances:

Extremely reactive or incompatible with alkalis.

Corrosivity :

Extremely corrosive in presence of aluminum, of zinc. Highly corrosive in presence of steel, of copper. Slightly corrosive to corrosive in presence of stainless steel(304), of stainless steel(316). Non-corrosive in presence of glass.

Special Remarks on Reactivity: Reacts violently with water especially when water is added to the product. (Sulfuric acid)

Special Remarks on Corrosivity: Not available.

Polymerization: No.

11. Toxicological information

www.rxmarine.com

Routes of Entry	Eye contact. Inhalation. Ingestion
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	The substance is toxic to lungs, n
Other Toxic Effects on Humans	Extremely hazardous in case of s ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on other Toxic Effects on Humans	Not available.

12. Ecological information

www.rxmarine.com

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation::: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

13. Disposal considerations

www.rxmarine.com

Waste Disposal

14. Transport information

www.rxmarine.com

DOT Classification: CLASS 8: Corrosive liquid.

Identification: Sulfuric acid, solution : UN2796 PG: II

Special Provisions for Transport: Not applicable.

15. Regulatory information

www.rxmarine.com

Federal and State Regulations: TSCA 8(b) inventory: Sulfuric acid; Water

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC): This product is not classified according to the EU regulations.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

16. Other information

www.rxmarine.com

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Rx Marine International be liable for

any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.