

## 1. Product and Company Identification

[www.rxmarine.com](http://www.rxmarine.com)

Product Name

**Sulphuric Acid 5N**

Product Type

**RXSOL-60-6285-500**

### Company Details:

**RX MARINE INTERNATIONAL**

**105, A wing , BSEL , TECH PARK.**

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## 2. Composition / Information on ingredients

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| Name          | CAS #     | % by Weight |
|---------------|-----------|-------------|
| Sulfuric acid | 7664-93-9 | 0.098       |
| Water         | 7732-18-5 | 99.9        |

### Toxicological Data on Ingredients :

## 3. Hazards Identification

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### Potential Acute Health Effects

Hazardous in case of skin contact (irritant), of ingestion, of inhalation. In case of skin contact (corrosive) produce tissue damage particularly of eyes, mouth and respiratory tract. Inhalation produce burns. Inhalation cause severe irritation of respiratory tract, coughing, choking, or shortness of breath.

### Potential Chronic Health Effects

Non-corrosive for skin. Not a sensitizer for skin. Non-permanent to the eyes. Non-hazardous in case of ingestion. Not hazardous in case of inhalation. EFFECTS: Not available. Mutagenicity: Not available. TERATOGENICITY: Not available.

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DEVELOPMENTAL TOX  
substance is toxic to lungs,  
or prolonged exposure to th  
organs damage. Repeated o  
mist may produce chronic  
irritation. Repeated or prol  
may produce respiratory tra  
attacks of bronchial infection

#### **4. First Aid Measures**

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##### **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:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

##### **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

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|                                                     |                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------|
| 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 in the presence of static discharge |
| presence of static discharge                        | Not available.                                                        |
| 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

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### 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.

**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****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:** Not available.

**9. Physical and chemical properties**

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 (212°F) (Water).                 |
| Melting Point          | Not available.                                                   |
| Critical Temperature   | Not available.                                                   |
| Specific Gravity       | The only known value is 1 (Water = 1)                            |
| Vapor Pressure         | The highest known value is 17.535 mm Hg (Water) at 20°C (Water). |
| Vapor Density          | The highest known value is 0.62 (Air = 1)                        |
| Volatility             | Not available.                                                   |
| Odor Threshold         | Not available.                                                   |
| Water/Oil Dist. Coeff. | The product is much more soluble in water than oil.              |
| Ionicity (in Water)    | Not available.                                                   |
| Dispersion Properties  | See solubility in water.                                         |
| Solubility             | Easily soluble in cold water, hot water, alcohol, methanol,      |

## 10. Stability and reactivity

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**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

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|                                                  |                                                                            |
|--------------------------------------------------|----------------------------------------------------------------------------|
| Routes of Entry                                  | Absorbed through skin. Dermal contact.                                     |
| Toxicity to Animals                              | Eye contact. Inhalation. Ingestion.                                        |
| Chronic Effects on Humans                        | LD50: Not available. LC50: Not available.                                  |
| Other Toxic Effects on Humans                    | The substance is toxic to lungs, mucous membranes.                         |
| Special Remarks on Toxicity to Animals           | Hazardous in case of skin contact (irritant), of ingestion, of inhalation. |
| Special Remarks on Chronic Effects on Humans     | Slightly hazardous in case of skin contact (corrosive).                    |
| Special Remarks on other Toxic Effects on Humans | Not available.                                                             |
|                                                  | Not available.                                                             |
|                                                  | Not available.                                                             |

## 12. Ecological information

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|                                                   |                                                            |
|---------------------------------------------------|------------------------------------------------------------|
| Ecotoxicity                                       | Not available                                              |
| BOD5 and COD                                      | Not available                                              |
| Products of Biodegradation                        | Possibly hazardous short term likely. However, long term d |
| Toxicity of the Products of Biodegradation        | The product itself and its pro toxic.                      |
| Special Remarks on the Products of Biodegradation | Not available.                                             |

## 13. Disposal considerations

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Waste Disposal

## 14. Transport information

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**DOT Classification**

**Identification**

**Special Provisions for Transport:** Not applicable.

## 15. Regulatory information

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**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.):**

|                       |   |
|-----------------------|---|
| <b>Health Hazard:</b> | 3 |
| <b>Fire Hazard:</b>   | 0 |
| <b>Reactivity:</b>    | 0 |

**Personal Protection:**

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

|                      |   |
|----------------------|---|
| <b>Health:</b>       | 3 |
| <b>Flammability:</b> | 0 |
| <b>Reactivity:</b>   | 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**

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