Material Safety Data Sheet

Sulfuric Acid N/5 (RXSOL-60-6191-500)

1. Product and Company Identifaction

Product Name	RXSOL-60-6191-500
Product Type	Sulfuric Acid N/5

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Sulfuric Acid	CAS# 7664-93-9	14%	V/V	OSHA TWA 1 mg/m*f*,ACGIH STEL
Water, Deionized ASTM Type II	CAS# 7732- 18-5	86%	V/V	None Established

3. Hazards Identification

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

Emergency Overview:Poison! Danger! Corrosive. Liquid and mist cause severe burns to all body tissue. May be fatal if swallowed or contacted with skin. Harmful if inhaled. Affects teeth. Water reactive. Cancer hazard. Strong inorganic acid mists containing sulfuric acid can cause cancer. Risk of cancer depends on duration and level of exposure.

Inhalation:Corrosive! Effects should be less severe than from exposure to higer concentrations of sulfuric acid. Symptoms may include irritation of the nose and throat, labored breathing, as
well as lung edema, damage to mucous membranes and upper respiratory tract. Ingestion:Corrosive! Effects should be less severe than from exposure to higher concentrations of sulfuric acid. Symptoms include severe burns of the mouth, throat, and stomach. Circulatory collapse with clammy skin, weak and rapid pulse, shallow respirations, and scanty urine may follow ingestion or skin contact. Circulatory shock is often the immediate cause of death.
Skin:Corrosive! Can cause Redness, Pain, and Severe Skin Burns. Circulatory Collapse with
Clammy Skin, Weak and Rapid Pulse, Shallow Respirations, and Scanty Urine may Follow Skin Contact or Ingestion. Circulatory Shock is Often the Immediate cause of Death.

Eye Contact:Corrosive! Contact can cause Blurred Vision, Redness, Pain and Severe Tissue
Burns. Can Cause Blindness.
Chronic Exposure:Long-Term Exposure to Mist or Vapors may Cause Damage to Teeth. Chronic Exposure to Mists Containing Sulfuric Acid is a Cancer Hazard.
Aggravated by Exposure:Persons with Pre-Existing skin Disorders or Eye Disease May be more Susceptable to the Effects ot this Substance.

4. First Aid Measures

SKIN:	Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention
EYES:	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
INGESTION:	Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

Fire Extinguisher Type:	Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards:	None
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. Accidental Release Measures

Absorb spill with inert material, then place in a chemical waste container. Neutralize with a weak base.

Accidental Release: Ventilate area of Leak or Spill. Wear Appropritate Personal Protective Equipment as Specified in Section 8. Isolate Hazard Area. Keep Unnecessary and Unprotected Personnel from Entering.

Contain and Recover Liquid when Possible. Neutralize with Alkaline Material (Soda- Ash, Lime), then Absorb with an Inert Material (e.g., Vermiculite, Dry Sand, Earth), and place in a Chemical Waste Container.

7. Handling and Storage

Do not get in eyes, on skin, on clothing. Avoid breathing vapors or mist. Wash thoroughly after handling.

8. Exposure controls and personal protection

Respiratory Protection	None required
Ventilation	Local
OTHER	Mechanical
Protective Gloves	Wear appropriate gloves to prevent skin exposure
EYE PROTECTION	Goggles and Face Shield

9. Physical and chemical properties

BOILING POINT	Information not available
VAPOR PRESSURE	Information not available
MELTING POINT	Information not available

VAPOR DENSITY	Information not available
EVAPORATION RATE	Information not available
Appearance /Odors	Clear, colorless, odorless liquid
Flash Point	Information not available
Specific Gravity	Information not available
Percent Volatile by Evaporation Standard	> 85
Auto Ignition Temp	Not applicable
Lower Flamm. Limit in Air	Not applicable
Upper Flamm. Limit in Air	Not applicable
Solubility in Water	Soluble

10. Stability and reactivity

STABILITY	Stable
CONDITIONS TO AVOID	Material can react violently with strong oxidizing agents, metals, strong bases, amines.
MATERIALS TO AVOID	Oxidizing agents, metals, bases, amines.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of sulfur
HAZARDOUS POLYMERIZATION	Will Not Occur
Conditions to Avoid	None known

11. Toxicological information

Carcenogenic References The International Agency for Research on Cancer (IARC) has Classified “Strong Inorganic Acid Mists Containing Sulfuric Acid” as a known Human Carcinogen. This Classification applies only

12. Ecological information

Environmental Fate:When released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition.
Environmental Toxicity:LC50 Flounder 100 to 330 mg/l/48 hr aerated water/Conditions of bioassay not specified; LC50 Shrimp 80 to 90 mg/l/48 hr aerated water /Conditions of bioassay not specified; LC50 Prawn 42.5 ppm/48 hr salt water /Conditions of bioassay not specified. This material may be toxic to aquatic life.

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Causes severe irritation and burns. May Be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

14. Transport information

DOT Classification: UN2796, Sulfuric Acid Solution, 8, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

Chemical Inventory Status –
Part 1:Ingrdient
Sulfuric Acid (7664-93-9)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Sulfuric Acid (7664-93-9)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Sulfuric Acid (7664-93-9)
RQ 1000
TPQ 1000
List YES
Chemical Catg No .

Federal, State &
International Regulations –
Part 2:Ingredient
Sulfuric Acid (7664-93-9)
CERCLA 1000
261.33 No
8(d) No

Chemical Weapons Convention: No
TSCA 12 (b):No
CDTA:YES PURE/LIQUID
SARA 311/312: Acute: YES
Chronic: YES
Fire: No
Pressure: No
Reactivity: YES
Australian Hazchem Code: 2P
Poison Schedule: None allocated

16. Other information

Conditions aggravated/target organs: Persons with pre-existing respiratory conditions may be more susceptible. Acute: Irritation and burns to skin, eyes, and GI tract. Mists may cause respiratory irritation. Chronic: Dermatitis, eye damage, skin damage. Mists may cause lung damage. Animal tests suggest strong inorganic mists of sulfuric acid may act as a carcinogen.

Flammability

Health Reactivity

Revisions NFPA

0.1 updated msds to 16 section from 10 section msds. STN

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