

1. Product and Company Identification

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Product Name **Acrylic Acid**
Product Type **RXSOL-19-1217-025**

Company Details:

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

Stock Points: Mumbai, Kandla, Kolkata, Visakhapatnam, Chennai, Fujairah UAE,
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2. Composition / Information on ingredients

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Composition:

Name	CAS #	% by Weight
Acrylic Acid	79-10-7	10

Toxicological Data on Ingredients:

Acrylic Acid: ORAL (LD50): Acute: 33500 mg/kg [Rat]. 2400 mg/kg [Mouse]. DERMA
mg/kg [Rabbit]. VAPOR (LC50): Acute: 5300 mg/m 2 hours [Mouse]. 75 ppm 6 hours [

3. Hazards Identification

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Potential Acute Health Effects:

Very hazardous in case of skin contact (permeator), of eye contact (irritant, corrosive). C
on contact.Liquid or spray mist may produce tissue damage particularly on mucous mem
respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may pr

respiratory tract, characterized by coughing, choking, or shortness of breath. Severe death. Inflammation of the eye is characterized by redness, watering, and itching.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH (Not classifiable for human.) by IARC. **MUTAGENIC EFFECTS:** Classified POSSIBLE for human. Mutagenic to germ and somatic cells.

TERATOGENIC EFFECTS: Classified SUSPECTED for human. **DEVELOPMENTAL TOXICITY:** Reproductive system/toxin/male [POSSIBLE]. Classified Development toxin [SUSPECTED]. Toxic to bladder, brain, upper respiratory tract, eyes, central nervous system (CNS). Repeated exposure to the substance can produce target organs damage. Repeated or prolonged contact can produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to the material may produce general deterioration of health by an accumulation in one or many

4. First Aid Measures

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Eye Contact:

Check for and remove any contact lenses. If contact, immediately flush eyes with water for at least 15 minutes. Cold water is preferred. Get medical attention immediately.

Skin Contact:

In case of contact, immediately wash with water for at least 15 minutes while removing contaminated clothing and shoes. Do not reuse. Wash clothing before reuse. Wash shoes before reuse. Get medical attention if irritation persists.

Serious Skin Contact:

Wash with a disinfectant soap and water. Wash contaminated skin with an anti-irritant. Get immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If necessary, administer artificial respiration. If breathing is difficult, provide oxygen. Get medical attention if symptoms persist.

Serious Inhalation:

Evacuate the victim to a safe area. Loosen tight clothing such as a necktie, waistband, or belt. If breathing is difficult, provide oxygen. If the victim is not breathing, provide artificial respiration.

Special Remarks on Fire Hazards:

SMALL FIRE: Use DRY chemical
FIRE: Use alcohol foam, water
containing vessels with water
pressure build-up, autoignition

Special Remarks on Explosion Hazards:

Not available.

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 container.

Large Spill:

Flammable liquid. Corrosive liquid. Poisonous liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material inside container. Do not touch spilled material. Use water spray curtain to divert vapors and reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed for disposal. Be careful that the product is not present at a concentration level above TLV. Consult with local authorities.

7. Handling and Storage

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Precautions:

Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Never use open flame. Do not use product. If ingested, seek medical advice immediately and show the container or the label. Wash hands and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis, moisture.

Storage:

Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

8. Exposure controls and personal protection

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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentration below the TLV.

their respective threshold limit value. Ensure that eyewash stations and safety showers are at a convenient station location.

Personal Protection:

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

Personal Protection in Case of a Large Spill:

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

Exposure Limits:

TWA: 2 (ppm) from ACGIH (TLV) [United States] [1997] TWA: 2 [Australia] S [United Kingdom (UK)] TWA: 10(ppm) [United Kingdom (UK)] Consult local authorities for additional information.

9. Physical and chemical properties

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Physical state and appearance:	Liquid.
Odor:	Acrid (Strong.)
Taste:	Not available.
Molecular Weight:	72.06 g/mole
Color:	Colorless.
pH (1% soln/water):	Not available.
Boiling Point:	141°C (285.8°F)
Melting Point:	14°C (57.2°F)
Critical Temperature:	342°C (647.6°F)
Specific Gravity:	1.05 (Water = 1)
Vapor Pressure:	0.5 kPa (@ 20°C)
Vapor Density:	2.5 (Air = 1)
Volatility:	Not available.
Odor Threshold:	0.092 ppm
Water/Oil Dist. Coeff.:	The product is more soluble in oil; 0.4
Ionicity (in Water):	Not available.
Dispersion Properties:	Partially dispersed in methanol, di solubility in water.
Solubility:	Soluble in cold water. Very slightly

10. Stability and reactivitywww.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 oxidizing agents, acids, alkalis. Reactive with water.
Corrosivity:	Slightly corrosive in presence of zinc, of copper. Non-corrosive in presence of iron.
Special Remarks on Reactivity:	Not available.
Special Remarks on Corrosivity:	Not available.
Polymerization:	Yes.

11. Toxicological informationwww.rxmarine.com

Routes of Entry:	Absorbed through skin. Dermal irritation. Inhalation.
Toxicity to Animals:	WARNING: THE LC50 VALUE IS NOT AVAILABLE. ESTIMATED ON THE BASIS OF ACUTE EXPOSURE. Acute oral toxicity [LD50] [Mouse]. Acute dermal toxicity [LD50] [Rabbit]. Acute toxicity of the vapor [LD50] [Monkey].
Chronic Effects on Humans:	CARCINOGENIC EFFECTS: Classified as a possible carcinogen for human or animal.) by ACGIH. Classified as a possible carcinogen for human.) by IARC. MUTAGENIC EFFECTS: Classified as a possible mutagen for human. Mutagenic for prokaryotic and somatic cells. TERATOGENIC EFFECTS: Classified as a possible developmental toxin for human. DEVELOPMENTAL TOXICITY: Classified Reproductive Toxicant (Category 2) for the male reproductive system/toxin/male [POSITIVE]. Developmental toxicity [SUSPECTED] for the following organs:

Other Toxic Effects on Humans:

bladder, brain, upper respiratory system, and central nervous system (CNS).

Special Remarks on Toxicity to Animals:

Very hazardous in case of skin contact, eye contact (corrosive). Hazardous in case of skin contact (corrosive), of inhalation.

Special Remarks on Chronic Effects on Humans:

Not available.

Special Remarks on other Toxic Effects on Humans:

Not available.

Not available

12. Ecological information

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Ecotoxicity:

Ecotoxicity in water (LC50): 130 mg/l 96 hours [Trout]. 270 mg/l 96 hours [flea].

BOD5 and COD:

Not available.

Products of Biodegradation:

Possibly hazardous short term but not likely. However, long term effects may arise.

Toxicity of the Products of Biodegradation:

The products of degradation are not more toxic than the product itself.

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:

Class 8: Corrosive material

Identification :

Acrylic Acid, Inhibited UNNA: UN2218 PG: II

Special Provisions for Transport:

Not available.

Federal and State Regulations:

Rhode Island RTK hazardous substances: Acrylic Acid Pennsylvania RTK: Acrylic Acid
Minnesota: Acrylic Acid Massachusetts RTK: Acrylic Acid New Jersey: Acrylic Acid
Acrylic Acid TSCA 5(e) substance consent order: Acrylic Acid TSCA 8(a) IUR: Acrylic Acid
export notification: Acrylic Acid SARA 313 toxic chemical notification and release
CERCLA: Hazardous substances.: Acrylic Acid: 1 lbs. (0.4536 kg)

Other Regulations: OSHA:

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:**WHMIS (Canada):**

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F)
Corrosive liquid.

DSCL (EEC):**HMIS (U.S.A.):**

Health Hazard: 3

Fire Hazard: 2

Reactivity: 2

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

Health: 3

Flammability: 2

Reactivity: 2

Specific hazard:

Protective Equipment:

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

The data given here is based on current knowledge and experience. This Safety Data Sheet

in terms of safety requirements and does not signify any warranty with regard to the product given here only applies when product used for proper application(s). The product is not for applications usage in such may cause risks not mentioned in this sheet. Do not use for other than seeking advice from manufacturer.

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