

Product Name: Hydrofluoric Acid 60 %**Part No / SKU:** RXSOL-20-1107-100**Date of Issue:** September 09, 2026**Document Type:** Material Safety Data Sheet (MSDS)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Hydrofluoric Acid 60
Part Number	RXSOL-20-1107-040

Company Details:**RX MARINE INTERNATIONAL****105, A wing , BSEL , TECH PARK.****VASHI ,NEW BOMBAY 400703 INDIA****Branch : Sikka, Kandla, Dahej , Hazira, JNPT, Goa, Mngalore, Cochin, Tuticorin, Chennai, Kakinada, Vizag, Paradip, Haldia, Kolkata, Fujairah**

Phone	+91 22 27815540 / 27815542
Fax	+91 22 2781 1318 ::::AOH :0091 9821214367
Email	123@rxmarine.com
Website	www.rxmarine.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Name of Substance	Cas Number	Weight
Hydrogen fluoride	7664-39-3	40-60
Water	7732-18-5	40-60

3. HAZARDS IDENTIFICATION

Signal word	Danger
Hazard statement(s)	May be corrosive to metals Causes severe skin burns and eye damage May cause respiratory irritation Fatal if swallowed, in contact with skin or if inhaled.
Precautionary statement(s)	Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not get in eyes, on skin, or on clothing Wear protective gloves/protective clothing/eye protection/face protection Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Keep only in original container.
Response	Immediately call a POISON CENTER or doctor/physician.
Inhalation	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin	Wash contaminated clothing before reuse IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Rinse mouth. Do NOT induce vomiting
Spills	Absorb spillage to prevent material damage.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed Store in corrosive resistant polypropylene container with a resistant inliner Store in a dry place.
Disposal	Dispose of contents/container to an approved waste disposal plant.
Hazards not otherwise classified (HNOC)	None identified.

4. FIRST AID MEASURES

General Advice	Immediate and specialised first aid and medical treatment is required. Speed is of the essence. Flush with plenty of water immediately. Continue flushing during transport to hospital or medical center.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice..
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required. Dermal burns may be treated with calcium gluconate gel or slurry in water or glycerine. This compound binds the active fluorides in an insoluble form and limits burn extension and pain. Soaking or immersion with iced 0.13% Benzalkonium chloride solution may be used for skin burns and should be continued until the pain is relieved. Do not use in eyes.
Inhalation	If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way equipped with a one-way valve or other proper respiratory medical device. Remove to fresh air. Immediate medical attention is required. A nebulized solution of 2.5% Calcium gluconate may be administered with Oxygen by inhalation.
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.
Most important symptoms/effects, acute and delayed	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.
Notes to Physician	Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available.
Flash Point	No information available
Method	No information available
Autoignition Temperature	No information available
Explosion Limits	Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available
Specific Hazards Arising from the Chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
Hazardous Combustion Products	Gaseous hydrogen fluoride (HF).
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.	Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental Precautions	Should not be released into the environment.
Methods and material for containment and cleaning up	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Avoid breathing dust/fume/gas/mist/vapors/spray.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	Eye/face Protection Tight sealing safety goggles. Face protection shield.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless
Odor	Pungent
Odor Threshold	No information available
pH	1.0
Melting Point/Freezing Point	-35 °C / -31 °F
Initial Boiling Point and Boiling Range	105 °C / 221 °F
Flash Point	No information available
Evaporation Rate	No information available
Solid Flammability (solid,gas)	No information available
Flammability or explosive limits	Upper No data available Lower No data available
Vapor Pressure	No information available
Vapor Density	2.21
Specific Gravity	1.15-1.20
Solubility	No information available
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Molecular Formula	H F
Molecular Weight	20

10. STABILITY AND REACTIVITY

Reactivity	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat.
Incompatible Materials	Metals, Cyanides, Sulfides, Bases, Fluorine.
Hazardous Decomposition	Products Gaseous hydrogen fluoride (HF).
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	Corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

11. TOXICOLOGICAL INFORMATION

Toxicologically Synergistic	No data available
Irritation	Causes severe burns by all exposure routes.
Sensitization	No data available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
Mutagenic Effects	Not mutagenic in AMES Test.
Reproductive toxicity	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT-single exposure	None known
STOT-repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects, both acute and delayed	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. ECOLOGICAL INFORMATION

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available. Miscible with water.
Bioaccumulative potential	No information available.
Mobility in soil	Will likely be mobile in the environment due to its water solubility.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
---------------------------------------	---

14. TRANSPORT INFORMATION

ADR/RID

UN number	UN1790
UN proper shipping name	HYDROFLUORIC ACID
Hazard Class	8
Packing Group	II
Subsidiary Hazard Class	6.1

TDG

UN number	UN1790
UN proper shipping name	HYDROFLUORIC ACID
Hazard Class	8
Packing Group	II
Subsidiary Hazard Class	6.1

IATA

UN number	UN1790
UN proper shipping name	HYDROFLUORIC ACID
Hazard Class	8
Packing Group	II
Subsidiary Hazard Class	6.1

IMDG/IMO

UN number	UN1790
UN proper shipping name	HYDROFLUORIC ACID
Hazard Class	8
Packing Group	II