



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Hydrofluoric Acid (40% Aqueous Solution)
- Product Number:HF-20260213
- Brand:TECHPURE
- CAS-No.:7664-39-3
- Synonyms: Hydrogen Fluoride Solution; Hydrofluoric Acid

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses & Restrictions

- Identified Uses: Semiconductor etching, metal processing, glass etching, laboratory reagent.
- Uses Advised Against: Food contact, medicinal purposes, unventilated enclosed space use.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Corrosive to metals (Category 1)
- Skin corrosion/irritation (Category 1A)
- Eye damage/eye irritation (Category 1)
- Acute toxicity - Inhalation (Category 2)
- Acute toxicity - Dermal (Category 2)
- Aquatic toxicity (Category 1)

2.2 GHS Label Elements

- Hazard Pictogram: Corrosion; Skull and crossbones; Environment
- Signal Word: Danger
- Hazard Statements: H290 (May be corrosive to metals); H314 (Causes severe skin burns and eye damage); H330 (Fatal if inhaled); H310 (Fatal in contact with skin); H400 (Very toxic to aquatic life)
- Precautionary Statements: P210 (Keep away from heat/sparks); P260 (Do not breathe vapor); P280 (Wear protective gloves/eye/face/respiratory protection); P304+P340 (If inhaled: Remove to fresh air)

SECTION 3: Composition/Information on Ingredients



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- Substance / Mixture: Mixture
- Active Component: Hydrofluoric Acid (CAS 7664-39-3)
- Concentration: 40.0 ± 1.0%
- Diluent: Deionized Water (59.0-60.0%)
- Impurities: ≤ 0.5% (Trace metals)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; give oxygen if needed; seek emergency medical attention immediately.
- Skin Contact: Remove contaminated clothing; apply calcium gluconate gel immediately; rinse skin with plenty of running water for 15-20 minutes; seek emergency medical attention.
- Eye Contact: Hold eyes open; rinse continuously with plenty of running water for 15 minutes; apply calcium gluconate eye drops if available; seek emergency medical attention.
- Swallowed: Do not induce vomiting; rinse mouth with water; seek immediate medical attention.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO₂, foam, water spray.
- Special Hazards: Non-flammable; toxic fumes (HF vapor) when heated; corrosive to metals and glass.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental Release Measures

- Personal Precautions: Evacuate non-essential personnel; wear full PPE; eliminate ignition sources.
- Environmental Precautions: Prevent entry into drains/watercourses; neutralize with calcium hydroxide absorbents.
- Clean-Up Methods: Small spills: Absorb with calcium hydroxide; large spills: Contain and transfer to sealed HDPE containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with HDPE/PTFE equipment; use anti-static tools.
- Storage: Cool, dry, well-ventilated warehouse (≤ 25°C); sealed, away from glass/metals/strong bases.
- Incompatibilities: Glass, metals, strong bases, oxidizing agents.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; chemical-resistant clothing; HF-specific respirator.
- Exposure Limits: TWA (8h): 3 ppm (OSHA); STEL (15min): 6 ppm (OSHA).

SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless; Odor: Pungent
- Melting Point: -35°C; Boiling Point: 112°C; Density (20°C): 1.130 g/cm³



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- Viscosity (20°C): 1.2 mPa·s; Vapor Pressure (25°C): 1.3 kPa
- Corrosivity: Extremely corrosive to glass, aluminum, and tissues.

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; decomposes at high temperature to release HF vapor.
- Hazardous Reactions: Reacts violently with glass, metals, and strong bases.

SECTION 11: Toxicological Information

- Acute Toxicity: Inhalation (Rat, LC₅₀): 1270 ppm (1h); Dermal (Rabbit, LD₅₀): 50 mg/kg
- Skin/Eye Corrosion: Severe skin burns; permanent eye damage and bone damage risk.

SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC₅₀): 5 mg/L (96h); Daphnia (EC₅₀): 10 mg/L (48h)
- Biodegradability: Non-biodegradable; toxic to aquatic organisms.

SECTION 13: Disposal Considerations

- Product Waste: Dispose as hazardous waste; neutralize with calcium hydroxide before disposal.
- Packaging Waste: Rinse with water; dispose as hazardous waste or recycle.

SECTION 14: Transport Information

- UN Number: 1790
- UN Proper Shipping Name: HYDROFLUORIC ACID, AQUEOUS SOLUTION
- Transport Hazard Class: 8 (Corrosive); Packaging Group: I
- Marine Pollutant: Yes

SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation; Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code.

SECTION 16: Other Information

- Revision Date: 13 FEB 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.