

Hydrofluoric

Acid – (HF)

CAS Number: **7664-39-3**

Packing Group: **II**

Packing Size: **1000 L/ 1150 Kg**

Density (p): **1.15**

UN Number: **UN 1790**

Hazard Classification: **8, 6.1**

Product Overview

A colorless gas and solution with a strong irritating odor. Although hydrofluoric acid is toxic and corrosive, it is a nonflammable solution that is soluble in water. Hydrofluoric acid is incompatible with glass and most metals, but compatible with thermoplastics and elastomers. This solution has many industrial applications; some of which are glass etching, production of refrigerants, solar silicon processing, pharmaceutical, plastic production (PTFE), etc. Hydrofluoric acid can be harmful to your health if exposed to greater concentrations for a long period of time.

Safety

- Train staff on safe handling of HF
- Always wear PPE (goggles, face shield, gloves, closed shoes or rubber boots, full length clothing, apron, acid resistant body suit)
- Evacuate area in case of leak or release of HF
- ONLY attempt to clean-up a small spill or leak. Please call for help if the spill is large.
- Restrict access to area until completely cleaned
- Remove or isolate any flammable/ combustible material in the area
- Use proper equipment for clean-up. Spill-Kit can be used for small spills.
- Small spills can be absorbed with spill control pads and use acid neutralizer such as sodium bicarbonate.



***If exposed to Hydrofluoric Acid, immediately follow First-Aid procedures as stated in MSDS.**

Handling

- NEVER work alone with this chemical. Another person with training on rescue should ALWAYS be nearby.
- Protective equipment and First-Aid supplies should be available
- Any signs of illness and symptoms should be reported IMMEDIATELY
- Keep away from combustible material
- NEVER add water to HF instead add HF to water(cold)
- When mixing/diluting, stir slowly and cautiously.

Storage

- Store in cool, dry, and ventilated area
- DO NOT store in a metal or glass container. ONLY store in approved containers. (IBC, plastic drums, containers, totes)
- All containers and storage areas should be labeled properly
- DO NOT store in direct sunlight
- Keep containers tightly closed
- DO NOT allow smoking or food consumption while handling .

Transport

- If HF needs to be transported from one lab area to another. Place the material in a clean, compatible container and tightly close the lid.
- Remove gloves to avoid contamination onto door handles and other objects.
- Use a new clean glove, if required.
- Work with a partner to help open doors and handle objects.
- Properly use forklift and trolleys.



For more information : [HF Bulletin.pdf](#)