

UNIVERSITY of DELAWARE

ENVIRONMENTAL HEALTH & SAFETY

A Safe and Healthful Campus Environment

ENVIRONMENTAL ~

RESEARCH & LAB SAFETY *

GENERAL HEALTH & SAFETY ~

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<u>Chemical</u> Biological

Radiation

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Hydrofluoric Acid Safety Program

Hydrofluoric acid has a number of chemical, physical and toxicological properties, which make handling this material especially hazardous. All forms, including the solution or the vapor, can cause severe burns to tissue and cause serious toxic systemic effects. Fluoride ions are both acutely and chronically toxic. Fluorides are easily absorbed through the skin, cause death of soft tissue and erode bone as well as cause cardiac arrhythmias or cardiac arrest. Acute effects of hydrofluoric acid exposure include extreme respiratory irritation, immediate and severe eye damage and pulmonary edema. Skin, eye, or lung exposure to concentrated (>50%) hydrofluoric acid solutions will cause immediate, severe, penetrating burns. Exposure to less concentrated solutions may have equally serious effects, but the appearance of symptoms can be delayed for up to 24 hours.

Principal Investigators requesting authorization to purchase and use hydrofluoric acid in their research must complete a Standard Operating Procedure/Authorization Form and submit to the Chemical Hygiene Committee for approval.

Standard Operating Procedure/Authorization Form for Use of Hydrofluoric Acid

- <u>Microsoft Word Document</u>
- PDF Format

Hydrofluoric Acid User Authorization Form

- <u>Microsoft Word Document</u>
- PDF Format

Environmental Health & Safety Hydrofluoric Acid Spill and Splash Pamphlet

- Version for Review on the Web
- <u>Version for Print</u>

On-Line Hydrofluoric Acid Safety Refresher Training

Honeywell Specialty Materials - Hydrofluoric Acid Resources

Any questions or concerns related to safe use of hydrofluoric acid should be addressed to the Chemical Hygiene Officer at <u>dehsafety@udel.edu</u> or call 302-831-8475.

More Information

Chemical Hygiene Plan

Departmental Chemical Hygiene Officers

Templates (SOP's / JHA's)

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Transportation and Shipment of Chemicals / Non-Biological Research Samples



Office Information

Emergency Response

 Staff Listing and Contacts
 Biolog

 Letter from the Director
 Chem

 EHS Organizational Chart
 Fire E

 Contact Environmental Health and
 Radio:

 Safety
 Emerge

Biological Emergency ProceduresChemical EmergenciesFire EmergenciesRadioactive EmergenciesEmergency Response Resources

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