

# MATERIAL SAFETY DATA SHEET

## APF Acid Stain

### SECTION I

#### Product Identification and General Information

Product Name: APF Acid Stain  
Product Class: Hydrochloric Acid  
DOT Hazard Classification: 8 - Corrosive

Date Prepared: 11/10/2009  
24 Hour Emergency Assistance: Chemtrec  
1-800-424-9300

### SECTION II

<u>Hazardous Ingredients</u>	<u>Percent</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Chromic Chloride	7.5	50925-66-1	N/E	.5 mg/m <sup>3</sup>
Hydrochloric Acid	15.5	7647-01-0	7.0 mg/m <sup>3</sup>	7.0 mg/m <sup>3</sup>
Ferrous Chloride	77.0	7758-94-3	1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>

### SECTION III

#### Physical Data

Boiling Point: N/A  
Vapor Pressure: N/A  
Vapor Density: N/A  
Specific Gravity: 1.30+.03  
Percent Volatiles: N/A

Solubility in Water: N/A  
Evaporation Rate: N/A  
Appearance: Dark Liquid  
Odor: Sharp Pungent Odor

### SECTION IV

#### Fire and Explosion Hazard Data

Flash Point: N/E  
Flammable Limits: Not Regulated  
LEL: N/A  
UEL: N/A  
Extinguishing media: Water fog, Alcohol, Foam, Dry Chemical.  
Special fire fighting procedures: Wear full protective equipment including NIOSH approved self-contained breathing apparatus.  
Fire and explosion hazards: Releases Hydrogen Chloride Gas when heated. Also reacts with most metals to release hydrogen gas which can form explosive mixture with air.

### SECTION V

#### Reactivity Data

Stability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: Avoid contact with strong alkalis, alkali metals.  
Hazardous Decomposition Products: May evolve highly toxic chloride fumes.

## **SECTION VI**

### **Health Hazard Data**

Primary Route of Entry: Dermal, Inhalation

Eye Contact: Rapidly causes severe burns, possibly with permanent impairment of vision.

Skin Contact: Skin burn likely.

Inhalation: Remove to fresh air if effects occur. Call physician and/or transport to medical facility.

Ingestion: Corrosive. Do not induce vomiting. Give large amounts of water or milk immediately if available and transport to a medical facility.

## **SECTION VII**

### **Emergency First Aid Procedures**

Eye Contact: Immediate and continuous irrigation with flowing water at least 30 minutes is imperative. Seek medical attention.

Skin Contact: Immediate, continuous and thorough washing in flowing water for 30 minutes is indicated, remove clothing immediately. Destroy contaminated shoes. Seek medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Seek medical attention.

Ingestion: Corrosive. Do not induce vomiting. If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquid into the lungs. Seek medical attention.

Note to Physician: Massive overexposure to solutions of this product could lead to kidney failure and death.

## **SECTION VIII**

### **Special Protection Information**

Respiratory Protection: Wear NIOSH approved respirator for organic vapors to prevent overexposure.

Ventilation: Provide sufficient ventilation to maintain exposure below level of overexposure.

Eye Protection: Chemical splash goggles or other approved safety glasses.

Skin Protection: Wear chemical resistant gloves and other clothing as required to minimize contact.

## **SECTION IX**

### **Spill or Leak Procedures**

Steps to be taken if material is released or spilled:

Shovel or soak up spilled material into a plastic container and reuse or remove to approved chemical waste disposal area. Flush area with water, directing runoff to appropriate treatment or disposal container. Never flush to sewer. Major spills should be reported according to regulations.

Waste Disposal Method: Dispose of material in accordance with all federal, state and local regulations.

## **SECTION X**

### **Other Precautions**

Addition to water release heat, which can result in violent foaming and spattering. Always add slowly and in small amounts. Never add water to acids. Always add acids to water. Containers to this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solid).

## **SECTION X**

### **Shipping Data**

D.O.T. Shipping Name: Hydrochloric Acid Solution

Technical Shipping Name: Hydrochloric Solution

D.O.T. Hazard Class: 8 - Corrosive

UN/NA Number: UN1789

Packing Group: II

Reportable Quantity: None

D.O.T. Labels Required: Corrosive

Freight Class: 55