

MATERIAL SAFETY DATA SHEET

Revision Date: 2/13/2006

MSDS No.: S-578

Emergency Phones: 800-556-6366

INFOTRAC 800-535-5053

PLEASE NOTE: This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this material. Please read the information on these sheets, and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL and STATE RIGHT-TO-KNOW regulations. Also make this information available to any employee who requests it. It is your obligation to comply with these regulations.

SECTION I - PRODUCT IDENTITY**PRODUCT NAME: Target**

Formula: Mixture, hydrochloric acid and ammonium bifluoride.

Chemical Type: As above

HMIS RATINGS

Health = 3 (High)	Flammability = 0 (Insignificant)
Reactivity = 0 (Minimal)	Protection = C (Safety glasses/shield, gloves & apron)

SECTION II - HAZARDOUS INGREDIENTS

	<u>Percent</u>	<u>TLV</u>	<u>STEL</u>	<u>CARCINOGEN (OSHA,TP,IARC)</u>
Hydrochloric acid CAS No. 7647-01-0	< 5%	5 ppm		No
Ammonium Bifluoride CAS No. 1341-49-7	< 5%			No

SECTION III - CHEMICAL AND PHYSICAL

Appearance: Colorless liquid	Boiling Point: est. 210° F
Odor: nil	Melting Point:
pH: < 1	Spec. Gravity (H ₂ O = 1): 1.01
Water Solubility: Complete	Vapor Pressure (mm Hg):
Viscosity, Cp @ 25°C.:	VOC Content: none

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point (Method): N/A	Explosion Limits: Upper: N/A Lower: N/A
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Extinguishing Media: N/A (product is non-flammable)

Special Firefighting Procedures and Hazards: Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and acid respirator. If involved in a fire the product may produce toxic fumes. Use water spray for diluting. Possible formation of hydrogen gas caused by contact with metals which can when mixed with air be explosive.

SECTION V - REACTIVITY INFORMATIONStable: Unstable: **Precautions:**

Incompatibility: Strong alkalis, glass (etches) materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc.).

Hazardous Decomposition Products; Hydrogen chloride vapors. Contact with active metals can release flammable gas and hydrogen fluoride fumes at fire temperatures. Contact with active metals can release flammable gas.

Hazardous Polymerization: Occurs: Does Not Occur:

SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

Liquid & vapor can cause severe burns to eyes, skin, respiratory and gastrointestinal tracks, can cause pulmonary edema. Burns may not be painful or visible immediately and symptoms may last eight or more hours.

- Inhalation: Breathing of mists causes respiratory irritation and inflammation. Wear approved acid/vapor/mist respirator. If working in a confined area it is highly suggested that an acid/vapor mist respirator be worn particularly while spraying the product. Remove to fresh air. Give artificial respiration or oxygen if needed. Get prompt medical attention. Product's vapor & mist are extremely corrosive to nose, throat, and mucous membranes. Severe irritation and tissue damage can result from extended periods of exposure. Death can occur from breathing high concentrations.
- Skin: Corrosive. Causes irritation and burns. Wear acid resistant protective gloves, boots and clothing when working with the product concentrate or dilution. Remove contaminated clothing. Provide convenient safety showers. Flush skin with water for 15 minutes. Get immediate medical attention for any flesh burns. Product's vapor, liquid and mist are extremely corrosive to skin. Prolonged contact will cause burns and destroy
- Eyes: Corrosive. Causes eye damage. Wear splash proof goggles or side shield safety glasses. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.
- Ingestion: Corrosive. Causes irritation and burning in mouth and throat. Avoid swallowing. Can be fatal. Drink lots of water or, preferably, milk. Get medical attention immediately. Do not induce vomiting.

Most likely routes of entry: Skin, Eyes, Inhalation

Other Important Medical or Precautionary Information: None

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills and Leaks: Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by dike or other methods and held for collection and/or reuse, or for neutralization with alkali before collection and disposal. Personnel should use eye and skin protection. and respirator.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service. Use a respirator if area is poorly ventilated.

Waste Disposal: If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

Empty Containers: Rinse well before handling and disposal. Observe label precautions.

Other Precautions: none

SECTION VIII - REGULATORY INFORMATION

Reportable for SARA Title III, S.313 (Form R): Hydrochloric acid and Hydrofluoric acid

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, Jon Don cannot give any guarantees regarding information from other sources, and expressly does not make any warranties, nor assumes any liability, for its use.
