

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

Identity (as used on label and list):

**ABF- ETCH**

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section I

Manufacturer's Name:

Kytex Solution Inc.

Emergency Telephone Number:

800-424-9300 (CHEMTREC)

Address (Number, Street, City, State, and Zip Code):

3595 Zip Industrial Blvd

Telephone Number for Information:

800-889-1880

Atlanta GA 30356

Date Prepared:

2/15/2006

Signature of Preparer (optional):

## Section II — Hazardous Ingredients/Identity Information

Hazardous Components (specific chemical identity; common name(s))	OSHA PEL	ACGIH TLV	Other limits recommended	% (optional)
Ammonium Bifluoride CAS#1341-49-7	2.5 mg/m <sup>3</sup>	2.3 mg/m <sup>3</sup>	N/A	N/A

## Section III — Physical/Chemical Characteristics

Boiling Point	230 °F	Specific Gravity (H <sub>2</sub> O = 1)	1.09
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	<1
		PH	2-2.5

Solubility in Water: complete

Appearance and Odor: clear orange liquid with acid odor

## Section IV — Fire and Explosion Hazard Data

Flash Point (method used): none

Flammable Limits: none

LEL: N/A

UEL: N/A

Extinguishing Media: water, dry chemicals

Special Fire Fighting Procedures: use NIOSH/MSHA approved self contained breathing apparatus

Unusual Fire and Explosion Hazards: contact with some metals will produce hydrogen gas

**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid: contact with alkalis
	Stable	X	

Incompatibility (*Materials to Avoid*): alkaline products

Hazardous Decomposition or Byproducts: Hydrogen Fluoride, ammonia

Hazardous Polymerization	May Occur		Conditions to Avoid: none known
	Will Not Occur	X	

**Section VI — Health Hazard Data**

Route(s) of Entry: Eye, Skin and ingestion	Inhalation?	yes	Skin?	yes	Ingestion?	yes
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Health Hazards (*Acute and Chronic*): severe burns on skin, eyes, and throat; severe damage to mucous membranes; respiratory tissue burns

Carcinogenicity:	NTP?	no	IARC Monographs?	no	OSHA regulated?	no
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Signs and Symptoms of Exposure: skin and eye burns/irritation, dizziness, nausea, heavy coughing

Medical Conditions Generally Aggravated by Exposure: skin disorders, eye problems

**Emergency and First Aid Procedures**

**Skin:** flush affected areas with plenty of water and then soak in 0.13% iced aqueous Zephiran Chloride solution for 30-60 minutes; remove contaminated clothing; contact a physician

**Eyes:** holding eyelids open, flush eyes with plenty of clean water or sterile eye wash solution for at least 15 minutes; seek immediate medical attention

**Ingestion:** do not induce vomiting; drink large amount of water; seek immediate medical attention

**Inhalation:** seek fresh air immediately; administer oxygen; seek medical attention

**Section VII — Precautions for Safe Handling and Use**

Steps to be taken in case material is released or spilled: neutralize with caustic (alkaline) solution or large amount of water; mop up all spills immediately; contain large spills with towels or spill kit

Waste disposal method: in accordance with all local, municipal, city, county, state, and federal regulations

Precautions to be taken in handling and storing: keep out of reach of children

Other precautions: corrosive 8; poison 6; UN2817; PGII

**Section VIII — Control Measures**

Respiratory Protection (*specify type*): Respirator for acid fumes

Ventilation	Local Exhaust: no	Special: none
	Mechanical ( <i>general</i> ): general air dilution	Other: none

Protective Gloves: acid resistant      Eye Protection: safety glasses/goggles; face shield

Other Protective Clothing or Equipment: none

Work/Hygienic Practices: handle with care; pour carefully; avoid splashing