

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): **D-Oxidizer HF**

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 Solutions, Inc.

Emergency Telephone Number: 800 424-9300 Chemtrec

Address (Number, Street, City, State, and Zip Code):
3595 Zip Industrial Blvd

Telephone Number for Information: 800-423-7514

Atlanta, GA 30354

Date Prepared: January 10, 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)
Hydrofluoric Acid CAS #7664-39-3	3ppm	3ppm		Less than 10%
Isopropanol CAS #67-63-0	400ppm	400ppm		

Section III — Physical/Chemical Characteristics

Boiling Point	212 F	Specific Gravity (H ₂ O = 1)	1.04
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	1	Evaporation Rate (Butyl Acetate = 1)	Greater than 1

Solubility in Water: Complete

Appearance and Odor: Clear solution with acid odor

Section IV — Fire and Explosion Hazard Data

Flash Point (method used): above boiling point	Flammable Limits:	LEL N/A	UEL N/A
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Extinguishing Media: water, dry chemicals

Special Fire Fighting Procedures: self-contained breathing apparatus when involved in fire

Unusual Fire and Explosion Hazards: may liberate hydrogen fluoride and oxide of nitrogen gas

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid: None known
	Stable	X	

Incompatibility (*Materials to Avoid*): Strong alkaline materials

Hazardous Decomposition or Byproducts: None

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

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation?	X	Skin?	X	Ingestion?	X
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Health Hazards (*Acute and Chronic*): severe burns on skin, irritation of respiratory tract, severe eye burns

Carcinogenicity: --	NTP?	--	IARC Monographs?	--	OSHA regulated?	Yes
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Signs and Symptoms of Exposure: severe burns with ulceration, removes calcium from tissue

Medical Conditions Generally Aggravated by Exposure: Prolong contact with skin causes severe burns with ulceration.

Emergency and First Aid Procedures

Skin: Rinse with water for 15 minutes, remove clothing and soak contaminated area in 0.13% iced Zephiran Chloride solution for 30-60 minutes, contact physician immediately.

Eyes: Rinse with water for 30 minutes. Do not use Zephiran chloride solution, get medical attention immediately..

Ingestion: drink lots of water and milk

Inhalation: remove the person to outside and apply oxygen

Section VII — Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Collect with chemical absorbent material. Can be neutralized with lime and disposed in accordance to federal state and local regulations

Waste disposal method: dilute with two parts water, neutralize with caustic soda or lime. Dispose in accordance to federal state and local regulations

Precautions to be taken in handling and storing: always use rubber gloves and goggles. Keep in a cool place and handle with care

Other precautions: use goggles and check for holes in rubber gloves

Section VIII — Control Measures

Respiratory Protection (*specify type*): in confined area use acid and organic vapor type cartridge

Ventilation	Local Exhaust: --	Special: --
	Mechanical (<i>general</i>): X	Other: --

Protective Gloves: rubber gloves

Eye Protection: goggles

Other Protective Clothing or Equipment: plastic apron

Work/Hygienic Practices: if pouring to another container, do it slowly with care