

# 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):

**Pickling Solution # 314**

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:

**Kvtex 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: 800-889-1880

Atlanta GA 30354

Date Prepared: March 29, 2005

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)
Nitric Acid CAS #7697-37-2	2 ppm	2 ppm		< 23%
Hydrofluoric Acid CAS #7664-39-3	3 ppm	3 ppm		< 6%

## Section III — Physical/Chemical Characteristics

Boiling Point	NA	Specific Gravity (H <sub>2</sub> O = 1)	1.15
Vapor Pressure (mm Hg.)	NA	Melting Point	NA
Vapor Density (Air = 1)	>1	Evaporation Rate (Butyl Acetate = 1)	<1

Solubility in Water: Soluble

Appearance and Odor: Clear liquid with acid odor

## Section IV — Fire and Explosion Hazard Data

Flash Point (method used): None	Flammable Limits:	LEL --	UEL --
---------------------------------	-------------------	--------	--------

Extinguishing Media: Water, dry chemicals, foam

Special Fire Fighting Procedures: Use self contained breathing apparatus

Unusual Fire and Explosion Hazards: Hydrogen fluoride gas and oxides of Nitrogen

**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid: None Known
	Stable	X	

Incompatibility (*Materials to Avoid*): Oxidizing materials, cyanides, sulfides, alkaline materials, metals.

Hazardous Decomposition or Byproducts: hydrogen fluoride gas

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
--------------------	-------------	---	-------	---	------------	---

Health Hazards (*Acute and Chronic*): Severe burns on skin and eyes. Extremely corrosive to skin and eyes; prolonged contact will Burn or destroy surrounding tissue. Minimize exposure.

Carcinogenicity: None	NTP?	--	IARC Monographs?	--	OSHA regulated?	--
-----------------------	------	----	------------------	----	-----------------	----

Signs and Symptoms of Exposure:  
Severe burns on skin and eyes. Removal of calcium from tissue.

Medical Conditions Generally Aggravated by Exposure: applicable information not found.

**Emergency and First Aid Procedures**

**Skin:** Flush with cold water for at least 15 min. Remove clothing and soak contaminated area in 0.13% iced aqueous Zephiran Chloride solution for 30-60 minutes; contact physician immediately.

**Eyes:** flush with plenty of water for at least 30 min. Do not use Zephiran Chloride solution on eyes.

**Ingestion:** Do NOT induce vomiting! Then give 1 oz. Of magnesia w/equal amount. In case of ingestion give plenty of water, Exposure, get medical attention.

**Inhalation:** Remove to fresh air; give oxygen. Do not use mouth to mouth method.

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

**Steps to be taken in case material is released or spilled:** Collect large quantities with absorbent material, and flush with plenty of Water.

**Waste disposal method:** Dilute with plenty of water and neutralize with Caustic Soda solution. Discard in accordance with federal, state Local regulations.

**Precautions to be taken in handling and storing:** Residue left in container may be harmful.

**Other precautions:** Use rubber gloves and goggles, in contained area use ventilation.

**Section VIII — Control Measures**

**Respiratory Protection (*specify type*):** Organic vapors and acid gases.

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

**Protective Gloves:** Chemical resistant gloves      **Eye Protection:** Goggles and face shield

**Other Protective Clothing or Equipment:** Plastic apron. Always check for holes or tears in protective gear.

**Work/Hygienic Practices:** Always use gloves and goggles. Always double- check for holes and tears in gear.