



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Ver-tech Labs 6801 Bleck Drive Rockford, MN 55373 1-877-866-9742	Product Name: Pro I Product Code: EXT110 Recommended Use: Low pH Presoak Revision Date: 5/27/2015
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Chemical Emergency: Infotrac: 1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Classification

Acute Toxicity - Dermal	Category 2
Acute Toxicity - Oral	Category 3
Acute Toxicity - Inhalation	Category 3
Skin Corrosion	Category I
Serious Eye Damage	Category I
Corrosive to Metals	Category I

Signal Word

DANGER!



Hazard Statements

Fatal in contact with skin
 Toxic if swallowed
 Toxic if inhaled
 Causes severe skin burns and eye damage
 Causes serious eye damage
 May be corrosive to metals

Precautionary Statements - Prevention

Do not get in eyes, on skin, or on clothing
 Wash thoroughly after handling
 Do not eat, drink or smoke when using this product
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing fumes/gas/mists/vapors/spray
 Use only outdoors or in a well-ventilated area
 Keep only in original container

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower
 Wash contaminated clothing before reuse.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 Absorb spillage to prevent material damage

Precautionary Statements - Storage

Store locked up
 Store in a well ventilated place. Keep container tightly closed
 Store in a corrosive resistant container with a resistant inner liner

Hazards Not Otherwise Classified:

Causes severe burns which may not be immediately painful or visible.
 May cause hypocalcemia (depletion of calcium in the body) which may be fatal.
 Specialized medical treatment is required for all exposures.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

SECTION 3: INFORMATION ON HAZARDOUS INGREDIENTS

Product is a mixture according to 29 CFR 1910.1200.

Hazardous Components

Hazardous Ingredients	Cas #	Weight %
Hydrofluoric Acid	7664-39-3	5 - 10%
2-butoxyethanol	111-76-2	0 - 5%
Proprietary Blend	Trade Secret	15 - 30%

Specific chemical identity and/or exact percentage of components has been withheld in accordance with a trade secret claim according to Appendix E 29 CFR 1910.1200.

SECTION 4: FIRST-AID MEASURES**First Aid Measures**

- General Advice:** Immediate attention is required. Contains Strong Acid. Harmful or fatal if swallowed. Causes severe burns to eyes, skin, and respiratory tract. Wear protective clothing when handling this product. Keep out of reach of children. Use with care.
- Eye Contact:** Immediate medical attention is required. Immediately flush with cool running water for at least 30 minutes while holding eyelids apart. Do not rub affected area. Remove contact lenses if applicable. Take the victim to a doctor, preferably an eye specialist, as soon as possible. Ice water compresses may be applied to the eyes while transporting the victim to the doctor. Rubbing of the eyes is to be avoided.
- Skin Contact:** Immediate medical attention is required. Remove victim from the contaminated area and immediately wash the burned area with plenty of water. Remove all contaminated clothing while washing continuously. After thorough washing for at least 5 minutes, the burned area should be immersed in a solution of 0.13% iced aqueous Benzalkonium Chloride. Alternately, 2.5% calcium gluconate gel may be continuously massaged into the burn area. For burns not responsive to topical treatment, a physician may inject 2.5 - 5% aqueous calcium gluconate beneath, around, and in the burned area.
- Ingestion:** If swallowed, call immediately for emergency medical assistance. Ingestion of Hydrofluoric Acid is a life-threatening emergency. DO NOT induce vomiting. Have the victim drink several large glasses of water or milk to dilute the acid. If possible, give several ounces of milk of magnesia or any calcium containing antacid. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove to fresh air. Call a physician or poison control center immediately. Calcium gluconate, 2.5% in normal saline may be given by nebulizer with oxygen. Victim should be examined by a physician and held under observation for at least 24 hours.

Most Important Symptoms and Effects

Symptoms: Severe burns to eyes, skin, and respiratory tract.

Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat symptomatically as described above.

SECTION 5: FIRE-FIGHTING MEASURES**Flammable Properties**

- Flammability:** Not considered to be a fire hazard.
- Explosive Prop:** Not considered to be an explosive hazard.

Extinguishing Media

- Suitable:** Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable:** DO NOT USE WATER

Specific Hazards Arising from Chemical

- Hazards:** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition may lead to release of irritating and toxic vapors. In the event of fire and/or explosion do not breathe fumes.

Protective equipment and precautions for fire-fighters

- Fire-Fight Method:** In the event of a fire, fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate personnel to safe areas. Isolate hazard area and deny entry. Stay upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes or clothing.

Environ. Precautions: Prevent release to the environment if possible. Dike large spills to prevent material from entering streams or sewer systems.

Clean-Up Method: Soak-up with inert absorbent material and place into appropriate container for disposal. Clean contaminated area thoroughly with water. Prevent product from entering drains.

SECTION 7: HANDLING AND STORAGE

Handling: Wear personal protective equipment. Ensure all equipment is compatible with Hydrofluoric Acid. Avoid contact with skin, eyes, and clothing. Wash hands before eating, drinking, or smoking. Remove contaminated clothes and wash before reuse. Use in a ventilated area.

Storage: Store in closed containers in cool, dry, well-ventilated area. Avoid overheating or freezing. Keep in properly labeled containers and out of reach of children.

Incomp. Materials: Glass and silicate-containing materials. Alkalis. Carbonates. Sulfides. Metals. Oxidizing agents. Strong reducing agents. Water.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Guidelines**

Hazardous Chemical	OSHA PEL	ACGIH TLV
Hydrofluoric Acid	2.5 mg/m ³	2 ppm
2-butoxyethanol	50 ppm	20 ppm
Proprietary Blend	Not Determined	Not Determined

Appropriate Engineering Controls

Eng. Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protection Equipment (PPE)

Eyes: Recommend goggles or face shield, giving complete protection of eyes.

Respiratory: In case of insufficient ventilation wear suitable respiratory equipment. Use NIOSH approved respiratory protection.

Skin: Avoid skin contact. Recommend chemical resistant gloves and complete suit protecting against chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State:	Liquid	Freezing Point:	Not determined
Appearance:	Clear liquid	Boiling Point:	Not determined
Color:	Colorless to light amber	Evaporation Rate:	Not determined
Odor:	Extremely acrid	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH:	0 - 1.0	Relative Density:	Not determined
Flash Point:	Not determined	Flammability:	Not determined
Water Solubility:	Soluble in water	Explosive Limits:	Not determined
Viscosity:	Not determined	Part. Coefficient:	Not determined
Specific Gravity:	1.01	Auto-ignition Temp:	Not determined
Melting Point:	Not determined	Decomp. Temp:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Haz. Decomposition: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Haz. Polymerization: No information available.

Incompatibilities: Glass and silicate-containing materials. Alkalis. Carbonates. Sulfides. Metals. Oxidizing agents. Strong reducing agents. Water.

Conditions to Avoid: Heat, moisture and incompatibles.

SECTION 11: TOXICOLOGY INFORMATION**Component Information**

Hazardous Chemical	LD50 Oral	LD50 Dermal
Hydrofluoric Acid	Not Determined	Not Determined
2-butoxyethanol	1,300 mg/kg (rat)	> 2,000 mg/kg (rat)
Proprietary Blend	Not Determined	Not Determined

Potential Health Effects

Exposure Routes: Eye Contact, Dermal Contact, Ingestion, Inhalation

Acute Toxicity:

Eyes: Causes serious eye damage with tearing, redness, and impaired vision.

Skin: Causes severe burns which may not be immediately painful or visible. Symptoms may include pain, redness of skin and possible tissue destruction. Hydrofluoric acid will penetrate skin and attack underlying tissue. May cause hypocalcemia which may be fatal.

Ingestion: Harmful if swallowed. Corrosive to mucous membranes, esophagus and stomach.

Inhalation: Respiratory irritant.

Chronic Effects: Avoid repeated exposure. May aggravate pre-existing medical conditions including eye, skin and respiratory disorders.

Carcinogenicity: Not classifiable as a human carcinogen by OSHA, NTP or IARC.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Hazardous Chemical	Toxicity to Fish	Toxicity to Invertebrates
Hydrofluoric Acid	60 mg/L freshwater fish	270 mg/L (48 h: Daphnia)
2-butoxyethanol	1,474 mg/l (96 h: Oncorhynchus mykiss)	1,550 mg/l (48 h: water flea)
Proprietary Blend	Not Determined	Not Determined

Environmental Toxicity

Biodegradation: No information available.

Persistence: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Recover or recycle if possible. Disposal should be in compliance with applicable federal, state, and local regulations. Do not dispose of in the environment, in sewage, and/or in drains.

Container: Drain contaminated container thoroughly. Do not reuse container.

SECTION 14: TRANSPORT INFORMATION

Transport in accordance with all federal, state, and local regulations.

DOT

Proper Name: Corrosive Liquid, Toxic, n.o.s. (Hydrofluoric Acid)

Hazard Class: 8 (6.1)

UN Number: UN2922

Packing Group: II

SECTION 15: REGULATORY INFORMATION**US Federal Regulations**

TSCA Status: All components of this product are listed or exempt from listing on TSCA inventory.

CERCLA Reportable Quantity: Hydrofluoric acid: 100 lbs.

Section 311/312 Hazard Category

Acute Health Hazard:	7664-39-3	Hydrofluoric acid	5 - 10%
	111-76-2	2-butoxyethanol	0 - 5%

Chronic Health Hazard:	7664-39-3	Hydrofluoric acid	5 - 10%
Fire Hazard:	111-76-2	2-butoxyethanol	0 - 5%
Sudden Release of Pressure:	No		
Reactive Hazard:	7664-39-3	Hydrofluoric acid	5 - 10%
Section 313 Toxic Chemicals	7664-39-3	Hydrofluoric acid	5 - 10%
	111-76-2	2-butoxyethanol	0 - 5%

SECTION 16: OTHER INFORMATION

Prepared by: Health and Safety Department

Contact Number: 1-877-866-9742

Issue Date: 5/27/2015

Revision Date: 5/27/2015

Revision Note: MSDS converted to GHS SDS format

Version: 1

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End of Safety Data Sheet