



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:	Lightning HD
		Product Code:	LIG100
		Recommended Use:	Truckwash, Low pH Presoak
		Revision Date:	1/26/2015

Chemical Emergency: Infotrac: 1-800-535-5053

SECTION 2: HAZARDS IDENTIFICATION

GHS Hazard Classification

Acute Toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category I
Serious Eye Damage/Eye Irritation	Category I
Corrosive to Metals	Category I

Signal Word

DANGER!



Hazard Statements

Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May be corrosive to metals

Precautionary Statements - Prevention

Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Keep only in original container

Precautionary Statements - Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
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 corrosive resistant container with a resistant inner liner

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 %
Hydrofluosilicic Acid	16961-83-4	5 - 10%
Proprietary Blend	Trade Secret	0 - 5%

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:** Keep out of reach of children. Use with care.
- Eye Contact:** Immediately flush with cool running water for at least 15 minutes while holding eyelids apart. Do not rub affected area. Remove contact lenses if applicable.
- Skin Contact:** Wash off immediately with soap and water while removing all contaminated clothes and shoes.
- Ingestion:** If swallowed, call immediately for emergency medical assistance. DO NOT induce vomiting. Rinse mouth with water and drink 1-2 glasses of water. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove to fresh air.

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:** Product is a corrosive material. Treat symptomatically.

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

- Flammability:** Not considered to be a fire hazard.
- Explosive Prop:** No information available.

Extinguishing Media

- Suitable:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable:** No information available.

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:** Use personal protective equipment when needed. 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:** Strong acids and bases. Oxidizing agents.

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

Hazardous Chemical	OSHA PEL	ACGIH TLV
Hydrofluosilicic Acid	2.5 mg/m ³	2.5 mg/m ³
Proprietary Blend	Not Determined	Not Determined

Appropriate Engineering Controls

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

Personal Protection Equipment (PPE)

Eyes: Recommend safety goggles or shield.

Respiratory: Not usually necessary where ventilation is sufficient to maintain vapors under the TLV limit.

Skin: Avoid skin contact. Recommend chemical resistant gloves.

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	Evaporation Rate:	Not determined
Odor:	Odorless	Vapor Pressure:	Not determined
Odor Threshold:	No information available	Vapor Density:	Not determined
pH:	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:	1.08 - 1.09	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:	Strong acids and bases, strong oxidizing agents.
Conditions to Avoid:	Heat, moisture and incompatibles.

SECTION 11: TOXICOLOGY INFORMATION**Component Information**

Hazardous Chemical	LD50 Oral	LD50 Dermal
Hydrofluosilicic Acid	125 mg/kg (rat)	Not Determined
Proprietary Blend	Not Determined	Not Determined

Potential Health Effects

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

Acute Toxicity:

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

Skin: Causes skin irritation, redness, and itching. May cause chemical burns.

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 listed as carcinogen by OSHA, NTP or IARC.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

Hazardous Chemical	Toxicity to Fish	Toxicity to Invertebrates
Hydrofluosilicic Acid	28.7: 96 h Pimephales promelas mg/L	Not Determined
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, Acidic, Inorganic, n.o.s. (Hydrofluosilicic Acid)**Hazard Class:** 8**UN Number:** UN3264**Packing Group:** II**Special Provisions:** Based on package size, product may be eligible for limited quantity exception.**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:** Not Applicable**U.S. State Right-to-Know Regulations**

Hazardous Chemical	California Proposition 65
None	

Section 311/312 Hazard Category**Acute Health Hazard:** Yes**Chronic Health Hazard:** No**Fire Hazard:** No**Sudden Release of Pressure Hazard:** No**Reactive Hazard:** No**Section 313 Toxic Chemicals** None**SECTION 16: OTHER INFORMATION****Prepared by:** Health and Safety Department**Contact Number:** 1-877-866-9742**Issue Date:** 1/26/2015**Revision Date:** 1/26/2015**Revision Note:** MSDS converted to GHS SDS format**Version:** 1