



Material Safety Data Sheet

Product Name: Vari-Etch Frosting Cream
MSDS Date: 11/10/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vari-Etch Frosting Cream
Manufacturer: His Glassworks, Inc.
91 Webb Cove Road
Asheville, NC 28804
800-914-7463
Emergency Phone number: ChemTel, Inc.
Contract number: MIS0006930
Toll Free: 800-255-3924
International: +813-248-0585

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS#	Concentration
Ammonium Bifluoride	1341-49-7	< 31%
C ₁₂ H ₂₂ O ₁₁	57-50-1	< 31%
Dihydrogen oxide	7732-18-5	< 31%
C ₆ H ₇ NaO ₆	9005-38-3	<11%

3. HAZARDS IDENTIFICATION

Physical State: Liquid cream
Color: Tan
Odor: pungent odor

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Hazard Summary Tan liquid cream with a pungent odor. This product is corrosive and causes severe irritation and burning of the eyes, skin and mucous membranes. Harmful or fatal if swallowed, inhaled or absorbed through the skin.

Potential Health Effects

Skin: This product is severely irritating to or corrosive to the skin causing pain, itching and redness.

Can cause severe necrosis to tissue with symptoms such as redness, itching, burns and scarring.

Burns may not be immediately visible or painful. Damage to bodily tissue may continue for days as the fluoride ion reacts with the calcium in the skin and bone.

Eyes: Corrosive to the eyes.

Causes itching, burning, redness and tearing.

May cause irreversible eye damage.

Ingestion: Harmful or fatal if swallowed.

May cause corrosive damage to the gastrointestinal tract.

Inhalation: May cause respiratory tract irritation.

Chronic Exposure: Prolonged or repeated skin contact with liquid may cause degradation of bone mass and calcium in tissue.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC or OSHA.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

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Skin Contact: Wash off immediately with plenty of water for at least 20 minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if irritation develops or persists. Apply calcium gluconate gel (2.5%) and massage into affected area. Continue massaging while repeatedly applying gel until 15 minutes after pain has ceased.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Call a physician, preferably an ophthalmologist.

Ingestion: Do not induce vomiting without medical advice. Immediate medical attention is required. Never give anything by mouth to an unconscious person. Call a physician. Attempt immediate administration of a fluoride binding substance (i.e. calcium carbonate).

Notes to Physician

Treatment: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point: Not flammable

Suitable extinguishing media: Alcohol resistant foam

Suitable extinguishing media: Carbon dioxide (CO₂)
Dry Chemical

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective equipment

Avoid all skin contact.

Ensure adequate ventilation.

Avoid breathing vapors, mist or gas.

Avoid contact with skin, eyes and clothing.

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Environmental precautions:	Do not flush into surface water or sanitary sewer system.
	Prevent product from entering drains.
Methods for clean-up:	Ventilate the area.
	Contain dry material with a plastic sheet.

7. HANDLING AND STORAGE

Handling

Handling:	Wear personal protective equipment.
	Use only in well ventilated areas.
	Keep container tightly closed.
	Do not swallow.
	Avoid breathing vapors, mist or gas.
	Avoid contact with skin, eyes and clothing.

Storage

Requirements for storage areas and containers:	Do not store in glass containers.
	Keep containers tightly closed in dry, cool and well ventilated place.
	Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Protective Measures:	Ensure that eyewash stations and safety showers are close to the workstation location.
Engineering measures:	Use with local exhaust ventilation.
	Prevent vapor buildup by providing adequate ventilation during and after use.
Eye protection:	Do not wear contact lenses.

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Eye protection: Wear safety glasses with side shields.

Hand protection: Solvent resistant gloves.

Skin and body protection: Solvent resistant apron.

Respiratory protection: In case of sufficient ventilation wear suitable respiratory equipment.

Hygiene measures: When using, do not eat or drink.

Hygiene measures: Wash hands before breaks and immediately after handling the product.

Keep work clothes separate.

Remove and wash contaminated clothing before re-use.

Do not swallow.

Avoid breathing vapors, mist or gas.

Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Component	Type	Value
Fluorides	ACGIH	2.5mg/m ³
	OSHA	2.5mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid Cream

Color: Tan

Odor: Pungent odor

pH: 2

Relative vapor density: not determined (Air = 1.0)

Water solubility: 63g/L @ 20° C

10. STABILITY AND REACTIVITY

Conditions to avoid:	Avoid dispersion into air
Materials to avoid:	Strong acids. Strong oxidizing agents. Keep away from glass and silicates.
Hazardous decomposition products:	In case of fire hazardous decomposition products may be produced such as: Nitrogen oxides, fluorine and ammonia gas
Hazardous reactions:	Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute and Chronic Toxicity:	Harmful or fatal if swallowed. Ingestion can result in severe gastric distress with possible vomiting, bloody diarrhea, hypocalcemia.
Acute Dermal Toxicity:	Long term skin exposure to this product may lead to mottled tooth enamel and osteosclerosis (an increased density in the bones and calcification ligaments due to accumulation of fluoride).

12. ECOLOGICAL INFORMATION

Biodegradability:	Ammonia compounds are biodegradable and will not accumulate in the food chain.
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13. DISPOSAL CONSIDERATIONS

Observe all Federal, State and Local Environmental regulations.

14. TRANSPORT INFORMATION

DOT Classification:

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
(ammonium hydrogendifluoride)

Class: 8

UN ID#: UN3265

Packing Group: III

IATA Classification:

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
(ammonium hydrogendifluoride)

Class: 8

UN ID#: UN3265

Packing Group: III

15. REGULATORY INFORMATION

EU. EINECS: on the inventory or in compliance with the inventory

US Toxic Substances Control Act: On TSCA Inventory

Australia (Industrial Chemical Notification and Assessment Act) On the inventory or in compliance with the inventory

Canada All components of this product are on the Canadian DSL list.

Japan On the inventory or in compliance with the inventory

Korea On the inventory or in compliance with the inventory

Phillipines On the inventory or in compliance with the inventory

China On the inventory or in compliance with the inventory

Switzerland On the inventory or in compliance with the inventory

New Zealand On the inventory or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health:	3	3
Flammability	0	0
Reactivity:	1	1
Personal Protection	0	0