

SAFETY DATA SHEET



SECTION 1 – IDENTIFICATION

Product Identifier: Glass Resurfacer Stripper
Product Use: Remove heavy mineral staining
Manufactured for: Presto Restoration Products
401 East Jackson Street
Suite 2340
Tampa, Florida 33602

Emergency Telephone #:
INFOTRAC 1-352-323-3500 (Int'l)
1-800-535-5053 (North America)
Company Phone Number:
1-877-329-0472
770-454-8725

UN/ID No: UN1790
Date Prepared: September 26, 2013
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www.PrestoRestorationProducts.com

SECTION 2 – HAZARD(S) IDENTIFICATION

Appearance Clear liquid

Physical State Liquid

Odor Slight HF odor

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard Statements

Toxic if swallowed
Fatal in contact with skin
Harmful if inhaled
Causes severe skin burns and eye damage



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not get in eyes, on skin, or on clothing
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrofluoric acid	7664-39-3	<5

SECTION 4 – FIRST AID MEASURES

First Aid Measures

General Advice:

When seeking medical attention, emphasize exposure to hydrofluoric acid.

Eye Contact:

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Get immediate medical attention while applying and massaging 2.5% calcium gluconate gel or while soaking skin with 0.13% zephiran chloride solution.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention/advice.

Ingestion:

Rinse mouth. Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor breathing. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Most Important Symptoms and Effects

Symptoms:

Symptoms may be delayed. May cause hypocalcemia. Can also cause bone and joint changes in humans (Fluorosis). Death. In severe cases, burns, corneal damage, and blindness may occur. May cause irritation to the mucous membranes and upper respiratory tract. Irritation and corrosive burns to mouth, throat, and stomach. May cause impaired kidney function.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to Physician:

Possible fluoride exposure.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Foam.

Unsuitable Extinguishing Media

Not determined.

Specific Hazards Arising from the Chemical

Toxic fumes may be given off when material is exposed to fire.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions:

Use personal protective equipment as required.

Environmental Precautions:

See Section 12 for additional Ecological Information.

Methods and Material for Containment and Cleaning Up

Methods for Containment:

Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up:

Dilute with water and mop up, or absorb with an inert material and place in appropriate waste container in accordance with local, state and federal guidelines.

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SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling: Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use only in well-ventilated areas. Do not get in eyes, on skin, or on clothing.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Store away from heat and incompatible materials.

Incompatible Materials: Oxidizing agents. Strong alkalis.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrofluoric acid 7664-39-3	TWA: 0.5 ppm F TWA: 2.5 mg/m ³ F S* Ceiling: 2 ppm F	TWA: 3 ppm F TWA: 2.5 mg/m ³ F TWA: 2.5 mg/m ³ dust (vacated) TWA: 3 ppm F (vacated) TWA: 2.5 mg/m ³ (vacated) STEL: 6 ppm F	IDLH: 30 ppm Ceiling: 6 ppm 15 min Ceiling: 5 mg/m ³ 15 min TWA: 3 ppm TWA: 2.5 mg/m ³

Appropriate Engineering Controls

Engineering Controls: Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Individual Protection Measures, Such as Personal Protective Equipment

Eye/Face Protection: Wear splash goggles and face shield.

Skin and Body Protection: Wear chemical-resistant gloves, suit, and boots.

Respiratory Protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene

Considerations: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Appearance	Color	Odor	Odor Threshold
Liquid	Clear liquid	Not determined	Slight HF odor	Not determined
Property	Values	Remarks • Method		
pH	1.05-1.1			
Melting Point/Freezing Point	Not determined			
Boiling Point/Boiling Range	100 °C / 212 °F			
Flash Point	Not flammable			
Evaporation Rate	Not available			
Flammability (Solid, Gas)	n/a-liquid			
Upper Flammability Limits	Not applicable			
Lower Flammability Limit	Not applicable			
Vapor Pressure	Not available			
Vapor Density	Not available			
Specific Gravity	1.05-1.1			
Water Solubility	Completely soluble			
Solubility in other solvents	Not determined			
Partition Coefficient	Not determined			
Auto-ignition Temperature	Not determined			
Decomposition Temperature	Not determined			
Kinematic Viscosity	Not determined			
Dynamic Viscosity	Not determined			
Explosive Properties	Not determined			
Oxidizing Properties	Not determined			
VOC Content (%)	<1			

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SECTION 10 – STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Oxidizing agents. Strong alkalis.

Hazardous Decomposition Products

None known based on information supplied.

SECTION 11 – TOXOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

<u>Eye Contact:</u>	Causes severe eye damage.
<u>Skin Contact:</u>	Causes severe skin burns. Fatal in contact with skin.
<u>Inhalation:</u>	Harmful if inhaled.
<u>Ingestion:</u>	Toxic if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrofluoric acid 7664-39-3	-	-	= 850 mg/m ³ (Rat) 1 h = 1276 ppm (Rat) 1 h

Information on Physical, Chemical and Toxicological Effects

Symptoms: Please see section 4 of this SOS for symptoms.

Delayed and Immediate Effects as Well as Chronic Effects From Short and Long-Term Exposure

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Not determined

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrofluoric acid 7664-39-3		660: 48 h <i>Leuciscus idus</i> mg/L LC50		270: 48 h <i>Daphnia</i> species mg/L EC50

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Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Hydrofluoric acid 7664-39-3	-1.4

Other Adverse Effects

Not determined

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrofluoric acid 7664-39-3	U134			U134

SECTION 14 – TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

<u>UN/ID No:</u>	UN1790
<u>Proper Shipping Name:</u>	Hydrofluoric acid solution
<u>Hazard Class:</u>	8
<u>Subsidiary Hazard Class:</u>	6.1
<u>Packing Group:</u>	II

IATA

<u>UN/ID No:</u>	UN1790
<u>Proper Shipping Name:</u>	Hydrofluoric acid solution
<u>Hazard Class:</u>	8
<u>Subsidiary Hazard Class:</u>	6.1
<u>Packing Group:</u>	II

IMDG

<u>UN/ID No:</u>	UN1790
<u>Proper Shipping Name:</u>	Hydrofluoric acid solution
<u>Hazard Class:</u>	8
<u>Subsidiary Hazard Class:</u>	6.4
<u>Packing Group:</u>	II

SECTION 15 – REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

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CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrofluoric acid 7664-39-3	100 lb	100 lb	RQ 100 lb final RQ RQ 45.4 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrofluoric acid - 7664-39-3	7664-39-3	<5	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrofluoric acid 7664-39-3 (<5)	100 lb			X

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrofluoric acid 7664-39-3	X	X	X

SECTION 16 – OTHER INFORMATION

NFPA	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
HMIS	Health Hazards 3	Flammability 0	Physical Hazards 1	Personal Protection Not determined

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.