



Safety Data Sheet

Issue Date 26-Sep-2013

Revision Date: 01-Oct-2013

Version 1

1. IDENTIFICATION

Product Identifier

Product Name Glass ReSurfacer Stripper

Other means of identification

SDS # PRP-002

UN/ID No UN1790

Recommended use of the chemical and restrictions on use

Recommended Use Remove heavy mineral staining.

Details of the supplier of the safety data sheet

Supplier Address

Presto Restoration Products, Inc.
555 North Point Center East, 4th Floor
Alpharetta, GA 30022
info@PrestoRestorationProducts.com
www.PrestoRestorationProducts.com

Emergency Telephone Number

Company Phone Number 1-800-329-0472

770-454-8725

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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. |
|---------------------------|-----------------------------|

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.

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.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|----------------|-----------------------|----------------|
| Physical State | Liquid | Odor | Slight HF odor |
| Appearance | Clear liquid | Odor Threshold | Not determined |
| Color | Not determined | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-------------------------------------|--------------------|-------------------------|
| 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 | |
| Autoignition 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 | |

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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|-------------------------------------------------------|
| Eye Contact | Causes severe eye damage. |
| Skin Contact | Causes severe skin burns. Fatal in contact with skin. |
| Inhalation | Harmful if inhaled. |
| Ingestion | 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 SDS 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

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 Leuciscus idus mg/L LC50 | | 270: 48 h Daphnia species mg/L EC50 |

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

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

Other Adverse Effects

Not determined

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 |

14. TRANSPORT INFORMATION

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

DOT

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

IATA

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

IMDG

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

15. REGULATORY INFORMATION

International Inventories

Not determined

US Federal Regulations

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 |

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

Issue Date

26-Sep-2013

Revision Date:

01-Oct-2013

Revision Note

New format

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.

End of Safety Data Sheet