Safety Data Sheet for Ceram-Etch Porcelain Etching Gel (9.5% HF Acid)

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Company/address/phone: Gresco Products, Inc. - 13391 Murphy Road - Stafford, TX 77477 USA - Phone 281-261-1811

1. Commercial product name and supplier
1.1. Commercial product name/designation: Ceram-Etch Gel (9.5% HF Acid)
1.2. Application/use: Acid etching gel for dental ceramic
1.3. Producer: Gresco Products, Inc.
1.4. Supplier: Gresco Products, Inc.
1.5. TOX emergency number: Not Available

2. Composition
2.1. Chemical characterization: A 9.5% aqueous solution of Hydrofluoric Acid
2.2. Hazardous components: Hydrofluoric Acid, CAS No. 7664-39-3
2.3. Further information: None

3. Hazards identification
Causes burns to eyes and skin. Toxic by inhalation. Toxic by ingestion.

4. First aid measures
4.1. Eye contact: Prompt medical attention is required.
Flush eyes thoroughly with water to remove the gel. Contact a physician.

4.2. Skin contact: Flush skin thoroughly with water to remove the gel. Contact a physician.
Drink large amounts of water, followed by milk or milk of magnesia. Contact a physician.

4.3. Ingestion: Breath fresh air. Contact a physician.

4.4. Inhalation: None.

4.5. Further information: None.

5. Firefighting procedures
5.1. Suitable extinguishing media: None required. Product will not burn.

5.2. Extinguishing media to avoid: None known.

5.3. Further information: None.

6. Accidental release measures
Wipe up spill with paper towel and dispose of in proper manner.

7. Handling and storage
Use only in well ventilated area by trained personnel.
Use care to avoid contact with skin and eyes.
Store at room temperature, out of direct sunlight, and away from metals (may cause corrosion).
Should be stored in poly bag or airtight plastic container.
Not combustible - will not burn.

8. Exposure controls/personal protection
Use with adequate ventilation.
MAK (maximum workplace concentration) is 3 ppm.

8.1. Technical measures: None required if concentration is below threshold limits.

8.2. Control of threshold units: Latex rubber gloves are recommended.

8.3. Personal protective equipment: Safety glasses are recommended. Eye wash station should be located in the work area.

8.3.1. Respiratory protection: None

8.3.2. Hand protection: None

8.3.3. Eye protection: None

8.3.4. Other: None
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**9. Physical and chemical properties**

- **9.1. Appearance**: Viscous liquid
- **9.2. Color**: Pink
- **9.3. Odor**: Sharp, acid odor
- **9.4. Change of physical state**: Not applicable
- **9.5. Density**: 1.12 gram/cubic meter at 25°C
- **9.6. Vapor pressure**: 24 @ at 25°C
- **9.7. Viscosity**: Not known
- **9.8. Solubility in water**: Soluble
- **9.9. pH**: 1.9
- **9.10. Flash point**: Not flammable
- **9.11. Ignition Temperature**: Not flammable
- **9.12. Explosion limits**: Not applicable
- **9.13. Further information**: None

**10. Stability and reactivity**

- **10.1. Thermal decomposition**: During decomposition, toxic fumes may be released.
- **10.2. Hazardous decomposition**: Hydrofluoric acid
- **10.3. Hazardous reactions**: Avoid excessive heat and direct sunlight.
- **10.4. Further reactions**: Avoid contact with heavy metals.

**11. Toxicological information**

- **11.1. Acute toxicity**: May cause burns to the mouth, throat, skin or eyes.
- **11.2. Subacute/chronic toxicity**: Not known.
- **11.3. Further information**: None.

**12. Ecological information**

- **12.1. Acute LC50 for fish**: 60 mg/L. German WKG:1.

**13. Disposal considerations**

- **13.1. EU waste key**: Neutralize gel with soda ash or lime, then dispose of in accordance with local regulations. 16 03 03

**14. Transport information**

- **14.1. Transport on land**: ADR 8  RID 8  
  UN Number 1790  
  Packing Group II  
  Shipping name: Hydrofluoric acid, 60% or less concentration.

- **14.2. Transport at sea**: ADNR 8/6.1  
  IMDG: 32-04  
  UN Number 1790  
  EMS F-A, S-B  
  MFAG  
  Packing Group II  
  Shipping name: Hydrofluoric acid, 60% or less concentration.

- **14.3. Air transport**: ICAO/IATA-DGR  
  Class 8  
  UN Number 1790  
  Shipping name: Hydrofluoric acid, 60% or less concentration.  
  Subsidiary risk 6.1  
  Labels Corrosive and Toxic  
  Packing Group II  
  Packing instructions 809  
  Max. 1 Liter  
  Packing instructions 813  
  Max. 1 Liter

- **14.4. Further information**: None
Safety Data Sheet for **Ceram-Etch Porcelain Etching Gel**

15. **Regulatory information**

15.1. UN number
15.2. National regulations
15.3. EU number
15.4. Hazard symbols

15.5. Hazard designation

15.6. Risk phrases

15.7. Safety phrases

15.8. MAK value

15.9 BVD classification (CH)
15.10. VbF (D)
15.11. Further information

16. **Other information**

This product requires classification according to the criteria of the Hazmat regulations.

1790

Not known

231-634-8

![Hazard symbols](image)

T = Toxic.    C = Corrosive. Contains Hydrofluoric acid

R: 35-26/27/28
35    Causes severe burns
26/27/28    Very toxic by inhalation, or if contacted with skin, or if swallowed

S: 26-45-1/2-7/9-36/37/39
26    In case of contact with eyes, rinse immediately with water and seek medical advise.
45    In case of accident, or if you feel unwell, seek medical advise immediately.
1/2    Keep locked up and out of reach of children.
7/9    Keep bottle tightly closed when not in use.
36/37/39    Wear suitable protective clothing, gloves and eye/face protection.

3 ml/m³ (ppm)    2.5 mg/m³
(Hydrofluoric acid)

Not known

None

None