

Material Safety Data Sheet

Issued: 7/22/2009

Version Number: 6

1. Identification of Substance/Preparation and Company/Undertaking

Product Name: Porc-Etch (Porcelain Etchant)
Manufacturer: Reliance Orthodontic Products, Inc. 1540 West Thorndale Ave, Itasca, IL 60143 USA
Emergency Telephone: 630-773-4009 Fax: 630-250-7704
Authorized Representative: Emergo Europe, Molenstraat 15, 2513 BH The Hague, The Netherlands
Telephone: +31-70-345-8570 · Fax: +31-70-346-7299
CE Administrator: Amtac Certification Services Ltd., Davey Avenue, Knowlhill, Milton Keynes, MK5 8NL, United Kingdom

2. Composition/Information on Ingredients

Ingredient	Concentration Range (%)	CAS Number	Symbol/Risk Classification	OSHA PEL (mg/m3)	ACGIH (mg/m3)	LD50 (mg/kg, rat/oral)
Hydrofluoric Acid	4	7664-39-3	T,C,R23/24/25-34	3ppm	3ppm	N/D

3. Hazards Identification

Toxic and Corrosive. Toxic by inhalation, in contact with skin and if swallowed. Causes Burns.

4. First-aid Measures

Inhalation: Provide fresh air and rest immediately.
Skin Contact: Wash immediately with soap and water.
Eye Contact: Flush immediately with running water for at least 15 minutes while keeping eye lids open; seek medical attention immediately.
Ingestion: Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

5. Fire-fighting Measures

Fire-fighting media: Dry chemical powder, foam or carbon dioxide.
Fire and explosion risks: Upon heating, irritating or toxic gases may form.

6. Accidental Release Measures

Personal Precautions: Prevent skin/eye contact, Provide ventilation.
Environmental Precautions: Avoid ground water contamination.
Methods for Cleaning Up: Wipe with damp paper towels, Discard properly.

7. Handling and Storage

Store in ventilated, cool, dry place (<25C; 77F); This product is used exclusively for dental purposes by trained personnel

8. Exposure Controls/Personal Protection

Eye Protection: Use protective eyewear.
Hand Protection: Use protective gloves.
Respiratory Protection: Avoid breathing of vapors.
Skin Protection: Use any necessary hygiene measures.

9. Physical / Chemical Properties

Appearance	Gel	Vapor Pressure @ 20C/68F	N/A
Color	Orange	Miscibility	N/A
Odor	Odorless	Vapor Density	N/A
Solubility (H2O, fat)	Miscible	pH	2
Boiling Point / Range	>100 C (212F)	Evaporation Rate	N/A
Melting Point / Range	< 0 C (32F)	Viscosity	N/A
Flash Point	N/A	Partition Coefficient	N/A
Conductivity	N/A	Auto flammability	N/A
Explosive Properties	N/A	Flammability	Non Flammable
Oxidizing Properties	N/A	Relative Density	>1

10. Stability and Reactivity

Avoid high temperatures; Do not store in metal or glass containers.

11. Toxicological Information

Eye Contact:	Causes Burns.
Skin Contact:	Causes burns with delayed tissue destruction, if not removed promptly.
Sensitization:	None known.
Other:	Harmful if inhaled

12. Ecological Information

N/A

13. Disposal Considerations

Refer to any Community provisions relating to waste. In their absence, refer to National or Regional provisions relating to waste.

14. Transport Information

No special precautions.

15. Regulatory Information

Classification:	T Toxic, C Corrosive, R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns
Safety:	Refer to any applicable National laws.

16. Other Information

Revision Date: 7/22/2009	Replaces MSDS dated: 2/11/2008
Revision Number: 6	Product: Porc-Etch (Porcelain Etchant)

NOTE: This information is believed to be correct as of the date of this MSDS. The manufacturer makes no representation as to the completeness or accuracy of this information and supplies it on the condition that the person receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

Material Safety Data Sheet

Issued: 1/10/2012

Revision Number: 5

1. Identification of Substance/Preparation and Company/Undertaking

Product Name: Barrier Gel

Manufacturer: Reliance Orthodontic Products, Inc., 1540 West Thorndale Ave, Itasca, IL 60143
Emergency Telephone: 630-773-4009 Fax: 630-250-7704

Authorized Representative: Emergo Europe, Molenstraat 15, 2513 BH The Hague, The Netherlands
Telephone: +31-70-345-8570 · Fax: +31-70-346-7299

CE Administrator: Amtac Certification Services Ltd., Davey Avenue, Knowlhill, Milton Keynes,
MK5 8NL, United Kingdom

2. Composition/Information on Ingredients

Ingredient	Concentration Range (%)	CAS Number	Symbol/Risk Classificaton	OSHA PEL (mg/m3)	ACGIH (mg/m3)	LD50 (mg/kg, rat/oral)
Benzalkonium Chloride	<1	8001-54-5	N/A	N/D	N/D	240

3. Hazards Identification

Not listed by ACGIH, IARC, NTP or TSCA inventory.

4. First-aid Measures

Inhalation: Provide fresh air and rest. Get medical attention.

Skin Contact: Wash with soap and water.

Eye Contact: Flush with running water for at least 15 minutes while keeping eye lids open; seek medical attention.

Ingestion: Drink two glasses of water or milk. Seek medical attention if a substantial amount has been ingested.

5. Fire-fighting Measures

Fire-fighting media: Dry chemical powder, foam or carbon dioxide.

Fire and explosion risks: Upon combustion, irritating gases may form.

6. Accidental Release Measures

Personal Precautions: Prevent skin/eye contact.

Environmental Precautions: Avoid ground water contamination.

Methods for Cleaning Up: Wipe with damp paper towels, Discard properly.

7. Handling and Storage

Use according to directions for use. Store at room temperature (20 Degrees C/68 Degrees F to 25 Degrees C/77 Degrees F).

8. Exposure Controls/Personal Protection

Eye Protection: Use protective eyewear.

Hand Protection: Use protective gloves.

Respiratory Protection: N/A

Skin Protection: Use any necessary hygiene measures.

9. Physical / Chemical Properties

Appearance	Semi-Gel	Vapor Pressure @ 20C/68F	N/A
Color	Blue	Miscibility	N/A
Odor	odorless	Vapor Density	N/A
Solubility (H2O, fat)	Miscible	pH	N/A
Boiling Point / Range	N/A	Evaporation Rate	N/A
Melting Point / Range	N/A	Viscosity	N/A
Flash Point	Non-flammable	Partition Coefficient	N/A
Conductivity	N/A	Autoflammability	N/A
Explosive Properties	N/A	Flammability	N/A
Oxidizing Properties	N/A	Relative Density	N/A

10. Stability and Reactivity

Avoid high temperatures.

11. Toxicological Information

Eye Contact:	Irritates the eyes.
Skin Contact:	May irritate the skin.
Sensitization:	May cause allergic reaction on contact with the skin.
Other:	N/A.

12. Ecological Information

There is no specific information on the product. Use according to good working practices, avoiding release of the product into the environment.

13. Disposal Considerations

Refer to any Community provisions relating to waste. In their absence, refer to National or Regional provisions relating to waste.

14. Transport Information

No special precautions.

15. Regulatory Information

Classification:	N/A
Safety:	N/A

16. Other Information

NOTE: This information is believed to be correct as of the date of this MSDS. The manufacturer makes no representation as to the completeness or accuracy of this information and supplies it on the condition that the person receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the manufacturer be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information contained herein.