

Safety Data Sheet

Zenith 40% Etch Gel

SECTION 1: IDENTIFICATION

Product Name: ZENITH 40% ETCH GEL

Product Item Code(s): 003-31004

Recommended Use: Dental Etching

Restrictions on Use: For professional dental use only

Company Name: DMG America, LLC
242 South Dean Street
Englewood NJ. 07631
USA

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Email: info@dmg-america.com
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INFOTRAC 1-800-535-5053

SECTION 2: HAZARD(S) IDENTIFICATION

Classification and labeling of substance and mixture:

Label element:

- Signal word: Danger
- GHS Pictogram: GHS05 (Danger or Warning Corrosive Cat.1)
- GHS Pictogram: GHS07 (Warning)



Hazard Statement(s).

- **H314** SKIN CORROSION Causes severe skin burns and eye damage
- **H318** SERIOUS EYE DAMAGE Causes serious eye damage
- **H290** CORROSIVE TO METTAL May be corrosive to metals

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name/Common Name: Blue Phosphoric Acid Etching Solid

Product Contents: Blue Dental Etching Agent – syringes

Hazardous Ingredients: *(In Enamel Conditioner) Phosphoric Acid, Solid (see below).*

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Proper Shipping Name:	Hazardous Scale	Hazardous Data
Phosphoric Acid, Solid	4 – Extreme	Health: 2
CAS: 7664-38-2	3 – High	Flammability: 0
UN Designation: UN3453	2 – Moderate	Reactivity: 2
Class: 8, Corrosive	1 – Slight	
Packing Group: III	0 – Insignificant	
<i>Formulation Represents A Trade Secret Mixture</i>		

SECTION 4: FIRST AID MEASURES

Inhalation: No harm anticipated.

Skin Contact: Rinse with water. Prolonged contact may destroy tissue. Seek medical attention in case of serious irritation or burns.

Eye Contact: Immediately rinse with copious amounts of water. Seek medical attention as soon as possible.

Ingestion: Corrosive to mouth and throat – Do not induce vomiting. Serve milk if available or solution of sodium bicarbonate (basing soda).

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water contact acceptable.

Extinguishing Media which should not be used: None.

Special exposure hazards from combustion products: Product is not combustible.

Special protective equipment for fire fighters: Customary for possible contact with acidic materials.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precaution and Emergency Procedures: Avoid contact of skin or eyes. Wash hands with soap and water if contact occurs.

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Environmental Precautions and Methods for Containment: Dispose in DOT approved waste containers designed for acidic materials.

Methods for Cleaning Up:

- **Small quantities:** Dilute with large amounts of water and dispose
- **Large quantities:** Neutralize and dispose in accordance with federal, state, and local regulations.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Avoid proximity of reactive metals and alkaline substances.

Safe Storage Conditions: Store at temperatures not exceeding 83 °F (28.3 °C).

Other Restrictions or Recommendations: Be aware of signs of leakage.

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

OSHA Permissible Exposure Limits: Not established.

Respiratory Protection & Ventilation: Not required under normal handling.

Protective Clothing or Equipment: Required; use clothing and equipment designed for handling acid. Use goggles.

Unusual Work/Hygienic Practices: If contact with skin or eyes occurs, wash immediately with copious amounts of water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state, color, etc.): Blue Gel.

Odor: Negligible.

Odor threshold: Not established.

pH: ~1.

Melting point/freezing point: Not applicable.

Initial boiling point and boiling range: ~100°C.

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Flash point: Not applicable.

Evaporating rate: Not established.

Flammability (solid, gas): No.

Upper/Lower flammability or explosive limits: Not applicable.

Vapor pressure: <760 mm Hg at 100°C.

Vapor density: <1.

Relative density: ~1.2.

Solubility (ies): Soluble in water.

Partition coefficient: n-octanol/water: Not established.

Auto-ignition temperature: Not applicable.

Viscosity: Not established.

SECTION 10: STABILITY AND REACTIVITY

Stability: Generally stable.

Conditions of Instability: Not applicable.

Incompatibility or Reactivity with Various Substances: Reactive metals alkaline substances.
Hazardous Decomposition Products: Phosphoric acid vapors and phosphoric oxides, if exposed to extreme heat.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid temperatures above 83 °F (28.3 °C).

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Acute Health Effects: Eye and skin irritation upon contact.

Potential Chronic Health Effects: Possibility of severe skin/eye damage upon prolonged or repeated exposure.

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Signs and Symptoms of Exposure: Skin/eye irritation.

Medical Conditions Generally Aggravated by Exposure: None Known.

Carcinogenic or Potential Carcinogenic Effects: No ingredient listed as a carcinogen.

Other Potential Health Effects: None known.

SECTION 12: ECOLOGICAL INFORMATION

The material represents a strong acid.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with all federal, state, and local regulations for caustic materials and phosphates.

SECTION 14: TRANSPORT INFORMATION

Identification: Phosphoric Acid. Solid

UN Classification: UN 3453

Special Provisions for Transport: SEE current Dangerous Goods Regulations:

Maximum Weights for Transport:

- Package 25 kg. Passenger and Cargo Aircraft
- Cargo Aircraft 100 kg.

Packaging Group: III.

Hazardous Class: 8, Corrosive.

(See Section 3 – Composition/Information on Ingredients)

SECTION 15: REGULATORY INFORMATION

U.S. FDA Dental Device: Class II.

EC Medical Device Directive: Class IIa product.

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SECTION 16: OTHER INFORMATION

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this SDS was obtained from sources that we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or method of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use or disposal of the product. If the product is used as a component in another product or used in a way other than recommended by the Company, this SDS information may not be applicable.

*The data for the hazardous ingredients were taken respectively from the last version of the
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