



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
52-777-04

Product Name: Ideal Etching Tips / Gel

Release Date: April 9, 2007

1. Product and Company Identification

Trade Name & Synonyms Phosphoric acid etching gels Etch-Rite: 38 % Phosphoric acid etching gel. Etch- All: 10% Phosphoric acid etching gel.	MSDS Code Number Refer to part number
Chemical Name Phosphoric acid in a proprietary gel base.	Manufacture / Distributor GAC International Inc.
C.A.S. Number 7664-38-2	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) Dental etching gel	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
Phosphoric acid	7664-38-2	NA	NA
Further information: Etch-Rite: 38% Phosphoric acid etching Gel. Etch-All: 10% Phosphoric acid etching Gel.			

3. Hazard Identification

Emergency Overview Corrosive material.					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Causes eye burns.	NA	NA	NA	NA
Skin	Causes skin burns. May not produce an immediate burning sensation upon skin contact, delaying awareness that contact has occurred.	NA	NA	NA	NA
Inhalation	NA	NA	NA	NA	NA
Ingestion	NA	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure NA					
Carcinogenicity (IARC, NTP) NA					
Potential Environmental Effects NA					



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4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Immediately flush with plenty of water for 15 minutes.	Get medical attention.	NA
Skin	Immediately flush with plenty of water for 15 minutes while removing contaminated clothing. Wash clothing before reuse.	Get medical attention.	NA
Inhalation	Remove person to fresh air.	Seek medical attention if symptoms persist.	NA
Ingestion	Dilute with water or milk. Do not induce vomiting.	Get medical attention.	NA
Other	None	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring) NA			

5. Fire and Explosion Data

Flashpoint & Method: °C / °F Not combustible	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Autoignition Temperature Not combustible.	Other NA
Flame Propagation or Burning NA	Properties Contributing to Fire Intensity NA	Flammability Classification Health- , Flammability- , Reactivity- NA	
Extinguishing Media Use water spray to keep fire-exposed containers cool. Extinguish fire with agent suitable for surrounding fire.		Extinguishing Media to Avoid None.	
Protection and Procedures for Firefighters Fire-fighters should wear protective clothing and positive pressure self- contained breathing apparatus. Phosphoric acid can react with metals to liberate hydrogen, a flammable gas. Combustion by-products include oxides of phosphorus.			
Unusual Fire and Explosion Hazards NA			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Wear gloves and chemical splash goggles. For small quantities (as in this product): Absorb or wipe up spill with dry paper towels. Place all material in chemical waste container for disposal. Flush spill area with water.
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA

7. Handling and Storage

Handling Practices and Warnings For use only by dental professionals. Wear gloves and safety glasses; wash hands after use. Industrial hygiene: Usual hygiene measures. Do not eat, drink or smoke while using. Wash hands after use.
Storage Practices and Warnings (°C / °F). Keep tightly closed in original container. Store in a cool, dry well-ventilated location away from heat sources and out of direct sunlight. Separate from alkalis and most metals. Places of storage: Store in a cool, dry well ventilated location away from heat sources and out of direct sunlight. Fire and explosion protection: Not combustible. No special precautions.



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8. Exposure Control/Personal Protection

Ventilation Technical equipment: Not necessary. Control of threshold limits: For larger quantities than in this product, local mechanical exhaust ventilation to keep TLV below 3 mg/m3.		Other Engineering Controls NA
Routes of Entry:	Personal Protective Equipment (PPE) for Normal Use:	PPE for Emergencies:
Eye/Face	Chemically resistant splash goggles are recommended.	NA
Skin	Chemically resistant gloves are recommended.	NA
Inhalation	Under normal conditions of use of this product, the surgical masks usually worn by dental staff are adequate. If used in vivo, a high speed evacuation tip should be used to protect patient. When airborne limits are exceeded, a NIOSH-approved respirator with full face piece is recommended.	NA
General Hygiene Considerations and Work Practices NA		
Protective Measures During Repair and Maintenance of Contaminated Equipment NA		
Other Protective Measures and Equipment Wear long sleeves, apron or lab coat over clothing, to protect skin. If used in vivo, use rubber dam around tooth to be etched and high speed evacuator tip or other protective devices for patient. Mask all surrounding tissue. Emergency eye wash fountain should be available. Wash thoroughly after handling. Clean protective equipment before reuse.		

9. Physical and Chemical Characteristics

Appearance Etch- Rite: Clear blue gel. Color: Clear blue-gel Etch- All: Clear purple gel. Color: Clear purple gel.		Odor Characteristic.
Normal Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Solid <input type="checkbox"/> <u>GEL</u> (Other)		Boiling Point 135 °C / °F Melting Point 42 °C / °F Freezing Point °C / °F NA
Specific Gravity or Density (H₂O=1) 1.380	Solubility in Water Complete	pH 1
Vapor Pressure (mm Hg @ 20°C) 0.0285	Vapor Density (AIR= 1) NA	Evaporation Rate (Butyl Acetate = 1) NA
Other Viscosity: NA		

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid) Avoid contact with material such as sulfides and sulfites that could release toxic gases. Avoid strong alkalis because high heat of reaction can generate steam. Avoid most metals because phosphoric acid can react to liberate hydrogen, a flammable gas.	
Hazardous Products Produced During Decomposition Toxic gases, steam, hydrogen (flammable gas), and oxides of phosphorus. Hazardous reactions: Phosphoric acid can react with metals to liberate hydrogen, a flammable gas. Thermal decomposition: Combustion by-products include oxides of phosphorus.	
Hazardous Polymerization? <input type="checkbox"/> May Occur <input type="checkbox"/> May Not Occur NA	Conditions to Avoid °C / °F NA
Stability? <input type="checkbox"/> Stable <input type="checkbox"/> Unstable NA	Conditions to Avoid °C / °F NA



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11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data
Acute toxicity: Corrosive. May cause burns or irritation to eyes, skin, mouth, throat or gastrointestinal tract. Slightly toxic. **Subacute /chronic toxicity:** None known. Not considered a carcinogen, mutagen, teratogen or reproductive toxin. Further information: None.

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

In large quantities, acid may be damaging to plants, wildlife and aquatic ecosystems. Do not flush large amounts to sewer; do not allow to flow into bodies of water.

13. Disposal Considerations

Regulations

Follow all governmental regulations.

EC Waste key:

Swiss waste code:

Origin: Dental office

Properties (Physical/Chemical) Affecting Disposal

NA

14. Transport Information

Regulated for shipping?

Yes No NA

Proper Shipping Name

Ideal etching tips / gel

Packing Group

III

Do changes in quantity, packaging, or shipment method change product classification?

Yes No NA

Hazard Class

NA

Identification Number

NA

Other

Transport over land: Small quantity exemption 49 CFR 173.4

US Dept of transportation warning label: Corrosive, class- 8.

US Dept of transportation packing group: III

Transport at sea: On deck under deck, passenger and cargo vessels.

Air transport: Passenger aircraft: 5 L maximum.

Cargo plane: 60 L Maximum.



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15. Regulatory Information

Federal Regulations

According to the criteria of the EC EC directive 93/42, this product is a class IIA medical device.

UN Number: 1805

Swiss regulations:

Swiss toxicity class:

Ec Number:

Hazard symbol:

Hazard designation: Corrosive liquid.

Risk phrases: Warning! Corrosive.

Safety phrases: For professional use only. Follow instructions for use.

MAK Value:

BVD classification:

VbF:

Further information:

International Regulations

NA

Other

NA

16. Other Information

Supplier Number: 6/52

Supplier Release: February 1, 2000

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.