

1. Chemical Product and Contact Information

Product Name: 10% Phosphoric Acid Etching Gel

Material Safety Sheet Number: 00033

Date of Issue: 1/25/94

Revision Date: 9/28/00

Company Identification: *Pentron Clinical Technologies, LLC*

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Emergency Information Chemtrec: **800-424-9300**

Chemtrec International: **202-483-7616**

2. Composition/Information on Ingredients

Chemical characteristics: 10% phosphoric acid.

Description: 10% phosphoric acid dispensed in polymer and/or silica thickened gel.

Hazardous components: Phosphoric acid.

CAS NR:	Name:	% R-classification:
766-4-38-2	H ₃ PO ₄	Unknown.

3. Hazard Identification

Hazardous Components: Phosphoric Acid.

1mg/M³

OSHA PEL

ACGIH TL

1mg/M³

Avoid eye contact.

Avoid ingestion/inhalation.

Avoid contact with skin, mucous membrane and oral mucosa.

4. First Aid Measures

General information: Unknown.

After skin contact: Remove with copious amounts of water and paper towel.

Consult a physician if irritation occurs.

After eye contact: Flush 15 min. with copious amounts of water, an ophthalmologist is needed.

Rinse/flush with alkaline/saline solution under physician care.

After swallowing: Consult a physician immediately. Rinse oral cavity with water and exude or expectorate. Induce vomiting. Seek fresh air.

Prolonged contact: Eyes, corneal abrasions, skin-oral mucosa - sensitivity, burning sensation, lesions, inflammation and ulcerations.

5. Fire Fighting Measures

Extinguishing media: Carbon dioxide, dry chemical powder or appropriate foam.

Protective equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions: Protective gloves, goggles and others are recommended.

Environmental precautions: None known.

Methods for cleaning up: Collect by mechanical means after binding with absorbing material (saw dust/sand/vermiculite, soda ash, etc.) and dispose appropriately. Remove residues with paper towel.

Additional information: Unknown.

7. Handling and Storage

Store material at or below room temperature 73°F, 23°C. Avoid moisture, oxidents, acids, alkalies, salt, metals, amines, peroxide catalysts; cap after usage. Material will desiccate and partially harden if maintained in contact with air - uncapped.

Avoid skin, mucous membrane, oral mucosa and gingival (gum tissue) contact.

Avoid eye contact and ingestion.

Allow to bench rest and attain room temp. prior to usage.

Ventilation: Yes.

Local Exhaust: Yes.

Isolation: Goggles, gloves, intraoral rubber dam recommended. Use fresh disposable needles or brush tips for dispensing/application with each patient. Avoid cross contamination.

8. Exposure Controls/Personal Protection

Additional information for technical plants: Unknown.

Components with limits of values to be supervised at the workplace:

CAS-Nr.	Name	%	Art	Value	Unit
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The product contains no relevant quantities of components with limits of values to be supervised at the workplace.

Additional information:

Personal protective equipment: Wear protective clothing, lab coat, goggles, face mask (inorganic) and gloves.

General measure of protection

and hygiene: Normal hygienic measures.

Respiration: Unknown.

Hands: Protective gloves.

Eyes: OSHA approved goggles.

9. Physical and Chemical Properties

 Appearance: Form: Gel.
 Color: Green.
 Odor: None.

	Value	Unit	Method
Information on change in the physical state			
Melting point/melting range:	Not applicable.		
Boiling point/boiling range:	Not applicable.		
Flash point:	Not applicable.		
Autoignition temperature:	Unknown.		
Danger of explosion:	Unlikely.		
Density:	1-1g/cm ³		
Vapor pressure:	Not applicable.		
Viscosity:	Not applicable.		
pH:	1.0		
Solubility in/miscibility with:	None.		
Water:	Dissolve with water.		
Content of solvents:	≥60%		
Organic solvents:	None.		
Water:	≥60%.		
Content of solids:	≥2%.		

10. Stability and Reactivity

Incompatibility with other substances:	Strong bases, finely powdered metals.
Hazardous decomposition products:	Thermal decomposition may produce toxic fumes.

11. Toxicological Information

Acute toxicity:	May be harmful if absorbed through the skin, if swallowed. Material is destructive to the mucous membranes, upper respiratory tract, eyes and skin.
TLV:	Unknown.
Primary Routes of entry:	Inhalation, skin, and eyes.

12. Ecological Information

General information:	Data not available.
Classification of water endangment:	Unknown.

13. Disposal Considerations

Disposal consideration:	Contact a licensed waste disposal service.
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14. Transport Information

Not classified as dangerous goods.

15. Regulatory information

Classification according to EEC guidelines:	Unknown.
National Prescriptions:	Unknown.
Classification according to VbF:	Unknown.

16. Other Information

Revision Summary: The following revisions were made on January 14, 2000:

- Section 6. • Added protective gloves, goggles and others are recommended to Personal Precautions.
- Section 9. • Changed water from none to ≥60%.

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