

1. Chemical Product and Contact Information

Product Name: 37% Phosphoric Acid Etching Gel
Material Safety Sheet Number: 00041
Date of Issue: 01/25/94
Revision Date: 01/20/06
Company Identification: Pentron Clinical Technologies, LLC
 68 North Plains Industrial Road
 Wallingford, CT U.S.A. 06492
 Phone: 800-551-0283
 203-265-7397
Emergency Information Chemtrec: 800-424-9300
Chemtrec International: 202-483-7616

2. Composition/Information on Ingredients

Chemical characteristics: 37% phosphoric acid.
Description: 37% phosphoric acid dispensed in a polymer thickened gel.
Hazardous components:

Element	Percent	CAS #	Exposure Limit mg/m ³	
			OSHA PEL	ACGIH TLV
Phosphoric Acid (H ₃ PO ₄)	37%	766-4-38-2	1	1
Xanthan Gum	≤5%	11138-66-2	N/E	N/E
Water (H ₂ O)		7732-18-5	N/E	N/E

3. Hazard Identification

Hazardous Components: Phosphoric Acid.
 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: Rinse with copious amounts of water and dry with paper towel. Consult a physician if irritation occurs.
After eye contact: Flush 15 minutes with copious amounts of water. Consult an ophthalmologist. Rinse/flush with alkaline/saline solution under physician care.
After swallowing: Consult a physician immediately. Rinse oral cavity with water and exude or expectorate.
Prolonged contact: Induce vomiting. Seek fresh air.
 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

Handling: Practice good hygienic measures.
Handling procedures: Avoid skin, mucous membrane, oral mucosa and gingival (gum tissue) contact. Avoid eye contact and ingestion.
Storage: Store material at or below room temperature 74°F, 23°C.
Requirements at storerooms and containers: Avoid moisture, oxidents, acids, alkalies, salt, metals, amines, and peroxide catalysts; cap after usage. Material will desiccate and partially harden if maintained in contact with air - uncapped.
Storage classification: Not applicable.
VBF- classification: Not applicable.
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:
 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: Blue.
 Odor: None.

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: 1-1gm/cm³
 Vapor pressure: Not applicable.
 Viscosity: Not applicable.
 pH: 1.0
 Solubility in/miscibility with:
 Water: None.
 Content of solvents: Dissolve with water.
 Organic solvents: ≥60%
 Water: None.
 Content of solids: ≥60%.
 ≥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 or 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.

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

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