

## 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: 10/31/09  
**Company Identification:** Pentron Clinical  
 1717 West Collins Ave.  
 Orange, CA 92867  
 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 <sup>3</sup>	
			OSHA PEL	ACGIH TLV
Phosphoric Acid (H <sub>3</sub> PO <sub>4</sub> )	37%	766-4-38-2	1	1
Xanthan Gum	≤5%	11138-66-2	N/E	N/E
Water (H <sub>2</sub> 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 at ambient temperature.  
**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/cm <sup>3</sup>
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 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 endangerment:

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

The information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof. Pentron Clinical, however, makes no representations as to the completeness or accuracy of this information and supplies it on the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Pentron Clinical be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.