

MATERIAL SAFETY DATA SHEET

REDI-PREP™ ETCHANT SWABS

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Redi-Prep™ Etchant Swabs
PRODUCT DESCRIPTION: Liquid etchant filled swabs
CHEMICAL FAMILY: Inorganic acid
CHEMICAL NAME: Phosphoric acid
COMMON NAMES: Phosphoric acid; Orthophosphoric acid;
o-Phosphoric acid

MANUFACTURER: Orthogap, Inc.
15283 Amberly Drive
Tampa, FL 33647
(813) 784-8402

2. HAZARDS INGREDIENTS

CHEMICAL NAME: Phosphoric acid
CHEMICAL FORMULA: H_3PO_4
CAS NUMBER: 7664-38-2
PRODUCT CONCENTRATION (range): 35 - 40%
RISK CLASSIFICATION: Corrosive; may cause burns

3. HAZARDOUS IDENTIFICATION

PHYSICAL APPEARANCE: Translucent green liquid

POTENTIAL HEALTH EFFECTS

EYES: Mild to severe irritant
SKIN: Mild to severe irritant
INGESTION: Slightly toxic
INHALATION: Severe irritant

4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes. Seek medical attention.
SKIN: Wash with soap and water for at least 15 minutes. If severe burn, seek medical attention.
INGESTION: Do not induce vomiting. Drink copious amounts of water. Seek medical attention.
INHALATION: Remove from exposure. Seek fresh air. Seek medical attention.

5. FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: non-flammable
AUTOIGNITION TEMPERATURE: N/A
EXTINGUISHING MEDIA: N/A
EXPLOSION HAZARDS: N/A

FIRE FIGHTING EQUIPMENT/PROCEDURES: Thermal decomposition emits toxic fumes of oxides and phosphorus. Use full protective clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE (SPILL) MEASURES

PERSONAL PROTECTION: Wear gloves and protective eyewear to avoid skin/eye contact.
GENERAL MEASURES: Dilute with copious amounts of water, neutralize with sodium carbonate (soda ash) or sodium bicarbonate (baking soda), rinse or wipe away with copious amounts of water.

7. HANDLING & STORAGE

HANDLING: To be used only by qualified dental professionals in accordance with applicable local, regional, state, and federal regulations.
STORAGE: Store in original packaging at or below room temperature.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

OSHA PEL: TWA: 1 mg/m³ STEL: 3 mg/m³ (for 85% H₃PO₄)
ACGIH TLV: TWA: 1 mg/m³ STEL: 3 mg/m³ (for 85% H₃PO₄)

PERSONAL PROTECTION: Avoid direct contact. Wear protective eyewear; protective clothing; gloves. Avoid prolonged breathing of vapors.

9. PHYSICAL & CHEMICAL PROPERTIES

CHEMICAL FORMULA: H₃PO₄
APPEARANCE: Translucent green liquid
ODOR: None
SOLUBILITY (H₂O): Completely soluble
BOILING POINT: > 100°C/212°F
SOLIDIFICATION POINT: < 0°C/32°F
FLAMMABILITY: Non-flammable
FLASH POINT: N/A
SPECIFIC GRAVITY: 1.3

10. STABILILTY & REACTIVITY

STABILITY:	Stable under normal storage conditions in original packaging.
POLYMERIZATION:	Will not occur.
CONDITIONS TO AVOID:	Dehydration. Store in closed container.
HAZARDOUS REACTIONS:	Reactive metals and chemical bases. Reacts with sodium hypochlorite solutions to produce toxic (chlorine) gas. Avoid contact with these materials.
HAZARDOUS DECOMPOSITION:	At flame temperatures, material will emit toxic fumes (phophorus oxides.)

11. TOXICOLOGICAL INFORMATION

EYE CONTACT:	Irritant. May cause burns.
SKIN CONTACT:	Irritant. May cause burns.
INHALATION:	Irritant. May cause burns.
INGESTION:	Irritant. May cause burns.
LD₅₀ - dermal (rabbit):	2740 mg/kg (for 85% H ₃ PO ₄)
LD₅₀ - oral (rat):	1530 mg/kg (for 85% H ₃ PO ₄)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT:	May have adverse environmental impact if material reaches waterways in significant quantities.
TLM (mosquito fish):	138 mg/L 24-96 hours fresh water

13. DISPOSAL CONSIDERATIONS

Waste must be disposed of in accordance with the appropriate local, regional, state, and federal regulations.

14. TRANSPORT INFORMATION

US DOT:	Class 8 Corrosive material; Packing Group III
UN 1805	Limited quantity exception as per 49CFR 173.154

15. REGULATORY INFORMATION

U.S.

TSCA (Toxic Substance Control Act):	Phosphoric acid is not subject to export notification Phosphoric acid is listed on the TSCA Inventory.
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OSHA HAZARD COMM. RULE: Phosphoric acid is hazardous by definition of the Hazardous Communication Standard.
CLEAN WATER ACT: Phosphoric acid is listed as a Clean Water Act Section 311 Hazardous Substance.

CANADA

WHMIS (Canada): CLASS E Corrosive liquid

16. OTHER INFORMATION

INITIAL MSDS: 3-21-2009

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