

# MATERIAL SAFETY DATA SHEET

Date Issued: 12/18/2008

MSDS No: BS1003B

## Resilience®Liquid Etch

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Resilience®Liquid Etch  
**PRODUCT DESCRIPTION:** Green Liquid Etchant  
**PRODUCT CODE:** 506107; 503204  
**CHEMICAL FAMILY:** Phosphoric Acid  
**GENERIC NAME:** Phosphoric Acid

#### MANUFACTURER

Ortho Technology, Inc.  
 17401 Commerce Park Boulevard  
 Tampa FL 33647  
**Product Stewardship:** 1-800-999-3161

**COMMENTS:** This product may be a component of the Following Item Numbers: FC-RESI-047, FC-RESI-048 and FC-RESI-049

### 2. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Green-colored Liquid

#### POTENTIAL HEALTH EFFECTS

**EYES:** Mild to severe irritant

**SKIN:** Mild to severe irritant

**INGESTION:** Slightly toxic

**INHALATION:** Severe irritant

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Vol. %	CAS
Phosphoric Acid - 37%	~ 37	7664-38-2

### 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.

**INGESTION:** Do not induce vomiting. Wash out mouth with water, keep at rest.

**INHALATION:** Remove person to fresh air.

### 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** Non Flammable

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**AUTOIGNITION TEMPERATURE:** No data

**EXTINGUISHING MEDIA:** Material is not flammable.

**EXPLOSION HAZARDS:** None Reported

**FIRE FIGHTING PROCEDURES:** None required

**FIRE FIGHTING EQUIPMENT:** Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Emits toxic fumes of oxides of phosphorus.

### 6. ACCIDENTAL RELEASE MEASURES

#### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** May cause adverse environmental impact if material reaches waterways

**GENERAL PROCEDURES:** Cover with sodium carbonate and calcium hydroxide. Collect material. Place in an approved metal container.

**SPECIAL PROTECTIVE EQUIPMENT:** Glove and eye protection suggested

### 7. HANDLING AND STORAGE

**HANDLING:** To be handled by qualified dental professionals. Follow instructions for use.

**STORAGE:** Store at or below room temperature. Avoid moisture in unpolymerized state. Do not expose to any light.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses or splash goggles

**SKIN:** Lab coat and gloves

**RESPIRATORY:** Respiratory protection is recommended when using large amounts

**PROTECTIVE CLOTHING:** Lab Coat.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** No Obvious Odor.

**APPEARANCE:** Viscous liquid

**COLOR:** Green

**BOILING POINT:** No data

**MELTING POINT:** No Data

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**FLASHPOINT AND METHOD:** Non Flammable

**SOLUBILITY IN WATER:** Soluble

**SPECIFIC GRAVITY:** 1.3

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Avoid dehydration, Keep container closed.

**POSSIBILITY OF HAZARDOUS REACTIONS:** None reported

**HAZARDOUS DECOMPOSITION PRODUCTS:** At flame temperatures, material will emit toxic phosphorus oxide fumes

**INCOMPATIBLE MATERIALS:** Reactive metals and bases are materials to be avoided.

### 11. TOXICOLOGICAL INFORMATION

#### ACUTE

**ORAL LD<sub>50</sub>:** 1530 mg/kg (for 85% phosphoric acid)

**EYE EFFECTS:** Irritation to the eyes can occur

**SKIN EFFECTS:** Irritation to the skin can occur

### 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** May cause adverse environmental impact if material reaches waterways

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**OTHER SHIPPING INFORMATION:** Corrosive Material

### 15. REGULATORY INFORMATION

**UNITED STATES**

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### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive

### CANADA

#### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Corrosive

### EUROPEAN COMMUNITY

#### EEC LABEL SYMBOL AND CLASSIFICATION



"C" - Corrosive

## 16. OTHER INFORMATION

**REASON FOR ISSUE:** New MSDS Format

**APPROVED BY:** J. Hutchins     **TITLE:** QA/RA Director

**PREPARED BY:** T. Swan

**INFORMATION CONTACT:** 1-800-999-3161

**REVISION SUMMARY:** New MSDS

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