

# MATERIAL SAFETY DATA SHEET

Date Issued: 12/18/2008

MSDS No: BS1003A

## Resilience® Gel Etchant

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Resilience® Gel Etchant  
**PRODUCT DESCRIPTION:** Green Etchant Gel  
**PRODUCT CODE:** 501009;503202;506101;506102;506104;506106  
**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-006, FC-RESI-007 and FC-RESI-012

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS
Phosphoric Acid - 37%	7664-38-2

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Green colored gel

#### POTENTIAL HEALTH EFFECTS

**SKIN:** Mild to severe irritant

**INGESTION:** Slightly toxic

**INHALATION:** Severe irritant

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**SKIN:** Repeated contact with skin may lead to burns and rashes.

**ACUTE TOXICITY:** Slightly Toxic When Inhaled or Ingested.

**CHRONIC EFFECTS:** Slightly Toxic When Repeated Inhalation or Ingestion.

**MEDICAL CONDITIONS AGGRAVATED:** Unknown

**ROUTES OF ENTRY:** Inhalation, Ingestion, and Skin.

### 4. FIRST AID MEASURES

**EYES:** Flush with copious amounts of water for at least 15 minutes.

**SKIN:** Wash with soap and water for at least 15 minutes.

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**INGESTION:** Do not induce vomiting. Drink Copious Amounts of Water.

**INHALATION:** Remove from Exposure.

### 5. FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS:** N/A to N/A

**FLAMMABLE CLASS:** Material is not flammable.

**EXTINGUISHING MEDIA:** NA = Not Applicable

**FIRE FIGHTING PROCEDURES:** Use full protective clothing and self contained breathing apparatus.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Will emit toxic Phosphorous Oxide fumes.

### 6. ACCIDENTAL RELEASE MEASURES

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

#### ENVIRONMENTAL PRECAUTIONS

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

**GENERAL PROCEDURES:** For industrial or professional use only. Please see package insert for additional precautionary warnings.

### 7. HANDLING AND STORAGE

**HANDLING:** To be handled by qualified dental professionals.

**STORAGE TEMPERATURE:** Store at or below room temperature. Keep container dry. Keep container in well-ventilated area.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Ventilation : Local Exhaust is recommended.

#### PERSONAL PROTECTIVE EQUIPMENT

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

**SKIN:** Gloves recommended.

**RESPIRATORY:** Respiratory Protection Recommended

**PROTECTIVE CLOTHING:** Wear lab coat

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Viscous gel

**ODOR:** Odorless

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**COLOR:** Green

**VAPOR PRESSURE:** ND = No Data/Not Determined

**VAPOR DENSITY:** ND = No Data/Not Determined

**BOILING POINT:** ND = No Data/Not Determined

**MELTING POINT:** ND = No Data/Not Determined

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** (Butyl acetate = 1) ND = No Data/Not Determined

**SPECIFIC GRAVITY:** (H<sub>2</sub>O = 1) 1.3

### 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**POLYMERIZATION:** Will not occur.

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

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

**INCOMPATIBLE MATERIALS:** Reactive Metals and Bases.

### 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 in accordance with Federal, State, and Local Regulations.

### 14. TRANSPORT INFORMATION

#### DOT (DEPARTMENT OF TRANSPORTATION)

**PRIMARY HAZARD CLASS/DIVISION:** 8

**UN/NA NUMBER:** UN 1805

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**PACKING GROUP:** III

**OTHER SHIPPING INFORMATION:** Corrosive Material

### ROAD AND RAIL (ADR/RID)

**UN NUMBER:** UN 1805

**HAZARD CLASS:** 8

**PACKING GROUP:** III

**NOTE:** Corrosive Material

### AIR (ICAO/IATA)

**UN/NA NUMBER:** UN 1805

**PRIMARY HAZARD CLASS/DIVISION:** 8

**PACKING GROUP:** III

**NOTE:** Corrosive Material

### VESSEL (IMO/IMDG)

**UN/NA NUMBER:** UN 1805

**PRIMARY HAZARD CLASS/DIVISION:** 8

**PACKING GROUP:** III

**NOTE:** Corrosive Material

### CANADA TRANSPORT OF DANGEROUS GOODS

**UN/NA NUMBER:** UN 1805

**PRIMARY HAZARD CLASS/DIVISION:** 8

**PACKING GROUP:** III

**TDG NOTE:** Corrosive Material

## 15. REGULATORY INFORMATION

## 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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