

SAFETY DATA SHEET



Date Issued: 06/05/2007
MSDS No: 161-001.2
Revision No: New MSDS

OT Etchant 37%

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME: OT Etchant 37%

PRODUCT DESCRIPTION: Phosphoric acid dentin etchant

MANUFACTURER

OraTech, LLC
475 West 10200 South
South Jordan UT 84095

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (NORTH AMERICA) :(800) 424 - 9300
(INTERNATIONAL) :(703) 527 - 3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS	EINECS	Classification	Content
Phosphoric Acid	007664-38-2	231-633-2	C; R34	37

(Full text of R-Phrases can be found under heading 16)

3. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"C" - Corrosive

"N" - Dangerous for the environment

R50: Very toxic to aquatic organisms.

"T" - Toxic

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Corrosive. Will cause eye burns and permanent tissue damage.

POTENTIAL HEALTH EFFECTS

EYES: Causes severe eye burns.

SKIN: Corrosive, causes skin burning.

INGESTION: Harmful if swallowed.

INHALATION: R37: Irritating to respiratory system.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Causes eye irritation.

SKIN: Contact with skin may cause burns.

INGESTION: May cause chemical burns to the mouth and throat. May also cause a burning sensation, swallowing difficulties, vomiting, diarrhea and possible shock.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

4. FIRST AID MEASURES

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EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES: General: Evacuate all personnel; use protective equipment for fire-fighting. Use self-contained breathing apparatus when the product is involved in fire.

FIRE FIGHTING EQUIPMENT: Non-combustible.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Clean up spills immediately, observing precautions in Protective Equipment section.

LARGE SPILL: Absorb with inert, damp non-combustible material, then flush area with water.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not allow to enter sewers or drains that may lead to waterways.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing.

HANDLING: Use suitable protective equipment.

STORAGE: Store in a tightly closed container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear eye protection.

SKIN: S36/37: Wear suitable protective clothing and gloves.

RESPIRATORY: S51: Use only in well-ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Chemical Name	Flash Point	Boiling Point (°C)	Freezing Point (°C)	Specific Gravity
Phosphoric Acid	11	22	33	44

PHYSICAL STATE: Gel

ODOR: Odorless or no characteristic odor

COLOR: Green

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable when stored and handled under recommended conditions.

CONDITIONS TO AVOID: Avoid strong bases, Metals. Excess heat, exposure to moist air or water.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphine, oxides of phosphorous, hydrogen gas

INCOMPATIBLE MATERIALS: Strong caustics, most metals.

COMMENTS: Reacts with bases to form phosphate salts and is corrosive (especially when hot) to many metals and alloys. Liberates explosive hydrogen gas when reacting with chlorides and stainless steel, and reacts violently with sodium tetrahydroborate. Forms flammable gases with sulfides, mercaptans, cyanides, and aldehydes. Also forms toxic fumes with cyanides, sulfides, fluorides, organic peroxides, and halogenated organics.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Severe eye irritation

SKIN EFFECTS: Contact with skin may cause burns.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ECOTOXICOLOGICAL INFORMATION: Water pollutant

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of in compliance with governmental regulation (EC 1975L0442-20/11/2003)

14. TRANSPORT INFORMATION

ROAD AND RAIL (ADR/RID)

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PROPER SHIPPING NAME: Corrosive liquid, n.o.s. * Phosphoric acid mixture

HAZARD CLASS: 8

PACKING GROUP: III

AIR (ICAO/IATA)

SHIPPING NAME: Corrosive liquid, n.o.s. * Phosphoric acid mixture

UN/NA NUMBER: 1760

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

VESSEL (IMO/IMDG)

SHIPPING NAME: Corrosive liquid, n.o.s. * Phosphoric acid mixture

UN/NA NUMBER: 1760

PRIMARY HAZARD CLASS/DIVISION: 8

PACKING GROUP: III

LIMITED QUANTITY: 1 L

15. REGULATORY INFORMATION

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"C" - Corrosive
R34: Causes burns



"N" - Dangerous for the environment
R50: Very toxic to aquatic organisms.



"T" - Toxic
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16. OTHER INFORMATION

RELEVANT R-PHRASES:R34: Causes burns.

PREPARED BY: Iris McCallister

REVISION SUMMARY: New MSDS

MANUFACTURER DISCLAIMER: FOR DENTAL USE ONLY: Use as directed. The information and recommendations are taken from sources (raw material MSDS(s) and manufacturer's knowledge) believed to be accurate; however, OraTech Products, LLC, makes no warranty with respect to the accuracy of the information or the suitability of the recommendation and assumes no liability to any user thereof. Each user should review these recommendations in the specific context of the intended use and

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determine whether they are appropriate.