

# MATERIAL SAFETY DATA SHEET

## ORTHO CEMENT LIQUID

### 1 - IDENTIFICATION

**Manufacturer:** Ormco Corporation  
**Address:** 1717 West Collins Avenue  
**City, State, Zip:** Orange, CA 92867  
**Telephone:** 1-800-854-1741  
**24-Hour Emergency:** Chemtrec 1-800-424-9300  
**Date Prepared:** February 22, 2006

### 2 - COMPOSITION INFORMATION

#### Hazardous Ingredients

	<u>CAS #</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Phosphoric Acid	7664-38-2	1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	50

#### Other Ingredients

Water

### 3 - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** N/D  
**Specific Gravity (H<sub>2</sub>O = 1):** 1.5 - 1.7  
**Vapor Pressure (mm Hg):** N/D  
**Vapor Density (AIR = 1):** N/D  
**Freezing/Melting Point:** N/D  
**Solubility in Water:** Soluble  
**Appearance and Odor:** Clear, colorless, odorless liquid

### 4 - FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** N/A  
**Flammable Limits:** LEL: N/A UEL: N/A  
**Extinguishing Media:** NA  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

### 5 - REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** N/A  
**Incompatibility (Material to Avoid):** Strong caustics, metals, sulfides and sulfites  
**Hazardous Decomposition Byproducts:** Toxic fumes of phosphoric acid  
**Hazardous Polymerization:** Will not occur

### 6 - HEALTH HAZARD DATA

#### **Routes of Entry:**

**Skin:** Corrosive Liquid: May cause redness, pain and skin burns.  
**Eyes:** Corrosive Liquid: May cause redness, pain and eye burns.  
**Inhalation:** Inhalation is not an expected hazard unless misted or heated to high temperatures.  
**Ingestion:** Corrosive Liquid: May cause sore throat and burns of the mouth and throat.  
**Carcinogenicity -** NTP: No  
**IARC Monographs:** No OSHA Regulated Carcinogen: No

### 7 - EMERGENCY FIRST AID PROCEDURES

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention.  
**Eyes:** Flush with water for 15 minutes including under eyelids. Get medical attention.  
**Inhalation:** Remove to fresh air. Get medical attention if discomfort persists.  
**Ingestion:** Give large amounts of water. Do not induce vomiting. Seek medical attention.

### 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Absorb spills with inert material. Keep spilled material out of sewers.  
**Waste Disposal Method:** Incinerate in accordance with all federal, state and local regulations.  
**Precautions to be taken in handling and storing:** Store at normal room temperature.  
**Other Precautions:** Use according to directions. Contact with skin, soft tissue and eyes should be avoided. Can cause surface damage to soft tissue.

### 9 - CONTROL MEASURES

**Respiratory Protection:** N/A  
**VENTILATION:**  
**Local Exhaust:** N/A  
**Mechanical (General):** N/A  
**Protective Gloves:** Wear impervious rubber gloves to prevent skin contact  
**Eye Protection:** Safety glasses or goggles  
**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure to uncured material. Avoid contamination of food.

### 10 - TRANSPORTATION INFORMATION

**Regulated:** DOT, IATA, IMO  
**Proper Shipping Name:** Phosphoric Acid  
**Hazard Class:** 8  
**Identification Number:** 1805  
**Packing Group:** III  
**Label:** Corrosive  
**Note:** This product is not regulated by DOT for ground transportation under the small quantity exemption per 49 CFR 173.4.

### 11 - SPECIAL INFORMATION

**HMIS (Hazardous Material Identification System) Rating:**  
H3FOR0 PPE-Gloves and safety glasses  
[HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard;  
2 – Moderate Hazard; 1 – Slight Hazard; 0 – Minimum Hazard]

**Note:** This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate.