

**SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****MANUFACTURER**

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**COMMON NAME:** COE HARD - BONDING AGENT**CHEMICAL NAME:** N.A.**PRODUCT USE:** To increase the bonding strength between the denture and the relining material.

*The following information is provided with regard to the toxicity and hazards of the pure components present in this product.*

**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION**

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Methyl Methacrylate	80-62-6	TWA: 100ppm (ACGIH)	LD50 = 7.9g/kg (oral rat) LC50 = 3750 ppm 4 hr.	55-65
Acetone	67-64-1	TWA: 750ppm	LD50 = >6000mg/kg (oral rat) LC50 = NA	25-30
Hydroxyethyl Methacrylate	868-77-9	N.E.	N.E.	5-10

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

**BOILING POINT:** 101°C  
**VAPOR PRESSURE:** 50@30°C  
**VAPOR DENSITY:** 3.5  
**SOLUBILITY IN WATER:** Slight  
**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E.

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.939  
**MELTING POINT:** N.E.  
**EVAPORATION RATE:** N.E.  
**ODOR THRESHOLD:** <1ppm as Methyl methacrylate  
**APPEARANCE AND ODOR:** Clear liquid, unpleasant odor

**SECTION 4 - FIRE AND EXPLOSION DATA**

**FLASH POINT:** 6.5°C  
**FLAMMABLE LIMITS:** UEL: N.E.  
LEL: N.E.

**EXTINGUISHING MEDIA:** Foam, dry chemical, CO<sub>2</sub>, water spray.**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** May emit toxic fumes under fire conditions.**HAZARDOUS COMBUSTION PRODUCTS OR DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, and smoke.  
Decomposes with heat.**SECTION 5 - REACTIVITY DATA**

**STABILITY:** Stable  Unstable   
**POLYMERIZATION:** Will Not Occur  Will Occur

**CONDITIONS TO AVOID:** Avoid high heat and ignition sources**INCOMPATIBILITY (Materials to Avoid):** oxidizing agents and reducing agents

**SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION**

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS		X						
TERATOGENIC AFFECTS		X						
REPRODUCTIVE TOXIN		X						
CARCINOGENICITY		X						
SENSITIZER	X							

ROUTES OF ENTRY: Inhalation  Skin  Ingestion

**HEALTH HAZARD (Acute and Chronic):** May cause moderate eye irritation. May cause skin irritation. Ingestion causes irritation to the mouth, throat and G.I. tract and abdominal pain. Inhalation: high concentration is irritant to respiratory tract and may cause dizziness, headache and anesthetic effects.

**CHRONIC INFORMATION:** Prolonged and/or repeated exposure may lead to kidney, lung, liver and heart damage.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Nausea, dizziness and headache

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Progressive steps of inhalation overexposure: headache, dizziness, nausea, staggering gait, confusion, unconsciousness.

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**INGESTION:** If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**SKIN:** In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

**EYES:** In case of contact, flush eyes with copious amounts of water for at least 15 minutes. Call a physician.

**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE**

**IN CASE OF RELEASE OR SPILL:** Absorb with sand and place in closed containers for disposal. Wash spill site after material pickup is complete.

**WASTE DISPOSAL METHOD:** Material is a hazardous waste, No. U162. Dispose of waste in facility permitted for hazardous waste in accordance with local, state and federal regulations.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store in cool dry place. Keep away from heat and open flame. Do not expose to direct sunlight.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Wear appropriate NIOSH/MSHA - approved air purifying respirator.

**VENTILATION:** Use ventilation that is adequate to keep airborne concentrations below exposure limits.

**PROTECTIVE GLOVES:** Chemical resistant gloves

**EYE PROTECTION:** Safety goggles/glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash station/Safety shower

**WORK/HYGIENIC PRACTICE:** Observe good hygienic practices. Avoid contact with skin, eyes and clothing.

**SECTION 9 - PREPARATION INFORMATION**

*This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR*

**DATE:** 01 March 2006

**REVIEWED:** 15 January 2009

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

*The information herein is given in good faith. No warranty expressed or implied is made.*

FIRE - 4

TOXICITY - 2

NFPA  
REACTIVITY - 3

SPECIAL - P