

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

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**COMMON NAME:** PATTERN RESIN - LIQUID  
PATTERN RESIN LS - LIQUID

**CHEMICAL NAME:** N.A.

**PRODUCT USE:** Construction of temporary dental devices - liquid component

*The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.*

**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=3750ppm/4hr	80
2 Hydroxyethyl Methacrylate	868-77-9	N.E.	LD50=5888 mg/kg (oral rat) LC50=N.E.	16

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

**BOILING POINT:** 101°C  
**VAPOR PRESSURE:** N.E.  
**VAPOR DENSITY:** N.E.  
**SOLUBILITY IN WATER:** Insoluble  
**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.E.

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 1  
**MELTING POINT:** N.A.  
**ODOR THRESHOLD:** <1 ppm methyl methacrylate  
**APPEARANCE AND ODOR:** Clear liquid, unpleasant odor.  
**EVAPORATION RATE (Butyl Acetate=1):** Equal

**SECTION 4 - FIRE AND EXPLOSION DATA**

**FLASH POINT:** 11°C/52°F

**FLAMMABLE LIMITS:** N.E.

**EXTINGUISHING MEDIA:** Alcohol foam, dry chemical, carbon dioxide

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective equipment.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** When heated above the flashpoint: emits vapors, which when mixed with air, can burn or be explosive. Fine mists on sprays may be flammable at temperatures below the flash point. Sealed containers exposed to elevated temperatures may rupture explosively due to polymerization. Vapors are heavier than air and may travel to ignition source.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, smoke

**SECTION 5 - REACTIVITY DATA**

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

**CONDITIONS TO AVOID:** Heat and ignition sources

**INCOMPATIBILITY (Materials to Avoid):** Reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Carbon monoxide, carbon dioxide

**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):**

**INHALATION:** May cause nose and throat irritation. May cause nervous system depression. Reports have associated repeated and prolonged overexposure to brain damage and nervous system damage. May cause irritation or burning of mucous membranes.

**INGESTION:** May cause abnormal liver and kidney function

**SKIN:** May cause irritation or burning of skin. Repeated exposure may cause skin burns and allergic reactions.

**EYES:** May cause irritation or burning of eyes.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Progressive steps of inhalation overexposure: headache, dizziness, nausea, staggering gait, confusion, unconsciousness.

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**INGESTION:** Do not induce vomiting. Give one or two glasses of water and seek medical attention.

**SKIN:** Wash with soap and water. Wash clothes prior to reuse.

**EYES:** Immediately flush eyes with water. Seek medical attention.

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

**IN CASE OF RELEASE OR SPILL:** Eliminate source of ignition. Wear skin, eye, respiratory protection. Contain spill and keep out of sewers. Use absorbent to soak up liquid. Use non-sparking equipment and shovel into waste container.

**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:** Keep away from heat, sparks, flame, direct sunlight and elevated temperatures.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Reduce exposure in accordance with safe hygiene practice. If exposure limits are exceeded, use a MSHA-NIOSH approved respirator for organic vapors.

**VENTILATION:** Local Exhaust: Yes Mechanical: N.A. Special: N.A. Other: N.A.

**PROTECTIVE GLOVES:** Disposable vinyl gloves

**EYE PROTECTION:** Chemical eye goggles and full face protection if necessary.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eye wash station

**WORK/HYGIENIC PRACTICE:** Follow routine safe hygiene practices.

**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:** 21 February 2012

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

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

FIRE - 4

TOXICITY - 2

NFPA

REACTIVITY - 3

SPECIAL - P