

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

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**COMMON NAME:** RETENTION BEADS II SSS**CHEMICAL NAME:** N.A.**PRODUCT USE:** Maximizing retention in composite and acrylic resin bonding to metal.

*The following information is provided with regard to the toxicity and hazard rating 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	%
Polymethylmethacrylate	9011-14-7	PEL = 15mg/m <sup>3</sup> , 8 hr. TWA = total dust 5 mg/m <sup>3</sup> , 8hr. (respirable dust)		100

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

<b>BOILING POINT:</b> N.E.	<b>SPECIFIC GRAVITY:</b> N.E.
<b>VAPOR PRESSURE:</b> N.E.	<b>MELTING POINT:</b> N.E.
<b>VAPOR DENSITY:</b> N.E.	<b>EVAPORATION RATE:</b> N.E.
<b>SOLUBILITY IN WATER:</b> Negligible	<b>ODOR THRESHOLD:</b> Typical methacrylate
<b>COEFFICIENT OF OIL/WATER DISTRIBUTION:</b> N.E.	<b>APPEARANCE AND ODOR:</b> solid granules

**SECTION 4 - FIRE AND EXPLOSION DATA****FLASH POINT:** 300°C (572°F)**FLAMMABLE LIMITS:** N.E.**EXTINGUISHING MEDIA:** Water spray, foam, carbon dioxide, dry chemical**SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus with full face piece and protective clothing.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Combustible but not readily ignited. May form explosible dust clouds in air. May decompose if heated above 200°C. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapors.**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, methyl methacrylate**SECTION 5 - REACTIVITY DATA****STABILITY:** Stable  Unstable  **POLYMERIZATION:** Will Not Occur  Will Occur **CONDITIONS TO AVOID:** High heat**INCOMPATIBILITY (Materials to Avoid):** None known**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Methyl methacrylate**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						



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

ROUTES OF ENTRY: Inhalation  Skin  Ingestion

**HEALTH HAZARD (Acute and Chronic):** This material is not likely to irritate eyes or skin. A single dose of this product is relatively harmless by ingestion. No toxic effects are known to be associated with inhalation of dust from this material.

**EYES:** Dust may cause irritation

**SKIN:** Unlikely to cause skin irritation

**INGESTION:** Low oral toxicity

**INHALATION:** Unlikely to be hazardous but dust or vapors may cause irritation.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** No adverse clinical effects are known to be associated with exposure to this material.

**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Remove victim to fresh air. Get medical attention if symptoms occur.

**SKIN:** Wash with soap and water.

**EYES:** Flush with plenty of water. If redness, itching, or a burning sensation develops, seek medical attention.

**INGESTION:** Do not induce vomiting. Give one or two glasses of water to drink. If symptoms develop, seek medical attention.

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

**IN CASE OF RELEASE OR SPILL:** Caution – spillages may be slippery. Sweep up and recover or mix material with moist absorbent and shovel into waste container. Wash spill area with water.

**WASTE DISPOSAL METHOD:** In accordance with local, state, federal regulations.

**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Store in a cool dry place. Keep away from heat or open flame. Avoid contact with eyes. Avoid prolonged skin contact. Avoid inhalation of high concentrations of dusts.

**SECTION 8 - CONTROL MEASURES**

**RESPIRATORY PROTECTION:** Minimize exposure in accordance with good hygiene practice. If needed, use MSHA-NIOSH approved respirator for dusts, mists and fumes.

**VENTILATION:** Local Exhaust: N.E. Mechanical: N.E. Special: N.E. Other: N.E.

**PROTECTIVE GLOVES:** If necessary, use disposable vinyl gloves to reduce irritation.

**EYE PROTECTION:** Safety glasses

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eyewash 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:** November 12, 2008

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 – 1                      TOXICITY – 0                      NFPA REACTIVITY – 0                      SPECIAL –