

**RETENTION BEADS ADHESIVE  
MATERIAL SAFETY DATA SHEET****SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****SUPPLIER**

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**COMMON NAME:** RETENTION BEADS ADHESIVE**CHEMICAL NAME:** N.A.**PRODUCT USE:** Adhesive for retention beads

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

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

COMPONENT	C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Ethyl acetate	141-78-6	400ppm (OSHA PEL) 400ppm (ACGIH TLV)	N.E.	30-35
Acrylic polymers		N.E.	N.E.	65-70

**SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES**

**BOILING POINT:** 77°C  
**VAPOR PRESSURE:** N.E.  
**VAPOR DENSITY:** N.E.  
**EVAPORATION RATE:** N.E.  
**COEFFICIENT OF OIL/WATER DISTRIBUTION:** N.A.

**SPECIFIC GRAVITY:** N.E.  
**MELTING POINT:** N.E.  
**ODOR THRESHOLD:** N.E.  
**SOLUBILITY IN WATER:** Up to 3.3%  
**APPEARANCE AND ODOR:** Viscous, clear liquid, fruity odor

**SECTION 4 - FIRE AND EXPLOSION DATA****FLASH POINT:** 7.2°C**FLAMMABLE LIMITS:** N.E.>**EXTINGUISHING MEDIA:** Water spray, alcohol resistant foam, carbon dioxide, and dry chemical.**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool fire exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors may travel and ignite by lights, other flames, smoking, sparks, heaters, electrical equipment, and static discharges at distant locations.**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide and toxic gases**SECTION 5 - REACTIVITY DATA**

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

**CONDITIONS TO AVOID:** Keep away from fire, heat, and ignition sources.**INCOMPATIBILITY (Materials to Avoid):** Alkali metal hydroxides, sodium hydroxide**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Toxic gases

**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):** Gastrointestinal disturbances, central nervous system disturbances, respiratory tract irritation, slight skin irritation, eye irritation**SIGNS AND SYMPTOMS OF OVEREXPOSURE:** Nausea, weakness, drowsiness, loss of consciousness, nasal discomfort and discharge, chest pain, coughing, nose irritation, skin discomfort and redness.**CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Prolonged or repeated contact may cause dermatitis, superficial injury of the cornea, stinging of the eye, excess blinking, tear production, swelling of the conjunctiva.**EMERGENCY FIRST AID PROCEDURES:****INHALATION:** Remove to fresh air. Resuscitate if necessary. Seek immediate medical attention**EYES:** Flush immediately with water. Seek medical attention.**SKIN:** Remove contaminated clothing. Wash immediately with soap and water. If irritation persists or contact has been prolonged, seek medical attention.**INGESTION:** If patient is conscious, give two glasses of water. Induce vomiting. Seek medical attention.**SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE****IN CASE OF RELEASE OR SPILL:** Wipe off with a dry cloth or tissue paper.**WASTE DISPOSAL METHOD:** Treat as hazardous waste. Dispose according to local, state and federal regulations.**STORAGE, HANDLING, AND SPECIAL PRECAUTIONS:** Wear proper protective equipment. Avoid breathing vapor. Avoid eye contact. Store at normal room temperature in a well-ventilated area. Keep away from sources of ignition.**SECTION 8 - CONTROL MEASURES****RESPIRATORY PROTECTION:** Use self-contained breathing apparatus in high vapor concentrations.**VENTILATION:** Local Exhaust: Yes Mechanical: Yes Special: Other:**PROTECTIVE GLOVES:** If necessary, use plastic gloves.**EYE PROTECTION:** Safety spectacles or goggles.**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Eyewash station.**WORK/HYGIENIC PRACTICE:** Use normal good 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:** 09 January 2006**REVIEWED:** 29 January 2009N.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 – 1

SPECIAL –