MATERIAL SAFETY DATA SHEET DATE: 03/07/02

Section 1

PACER TECHNOLOGY
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PRODUCT IDENTIFICATION: **HAZARD RATING**

Quick Setting Epoxy Adhesive - Part A: Resin 1

2 x 0

Section 2 - HAZARDOUS INGREDIENTS INFORMATION:

Hazardous Components (Common Names, CAS Number)		OSHA PEL	ACGIH TLV	OTHER LIMITS	% OPTION
Bisphenol A/Epichlorohydrin based epoxy resin*	(25068-38-6)	NE	NE	NE	90-100%

* This product is an epoxy resin produced by the condensation reaction of Epichlorohydrin and Bisphenol-A. These raw materials are consumed in the process. Residual levels of Epichlorohydrin are controlled to 1ppm, max., in the product.

Section 3 - PHYSICAL/CHEMICAL CHARACTERISTICS:

Boiling Point:	>500F	Specific Gravity (H2O=1):	1.16
Vapor Density (Air=1):	NA	Melting Point:	NE
Vapor Pressure (mm Hg):	0.03 @ 77F	Evaporation Rate (Butyl Acetate = 1):	NA
Solubility in Water:	Negligible.		
Appearance & Odor:	Light yellow colored viscous liquid.		

Section 4 - FIRE AND EXPLOSION HAZARD DATA:

Flash Point (Method Used): 480F (PMCC) Flammable Limits: LEL: NE UEL: NE

Extinguishing Media: Water fog, foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Material will not burn unless preheated. Do not enter confined fire space without full bunker gear (helmet/face shield, bunker coat, gloves & rubber boats). Use positive pressure NIOSH-approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion Hazards: Heating of resin above 300F in presence of air may cause slow oxidative decomposition. Above 500F polymerization may occur. Some curing agents, e.g. aliphatic amines can produce exothermic reactions which in large masses can cause runaway polymerization & charring of reactants. Fumes & vapors from these thermal & chemical decompositions vary widely in composition/toxicity. DO NOT BREATHE FUMES. Unidentified fumes & vapors may be toxic.

Section 5 - REACTIVITY DATA:

Stability: Unstable __ Stable XX Conditions to Avoid: Keep away from open flames & high temperatures.

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong Lewis or mineral acids, strong mineral & organic bases, esp. primary & secondary aliphatic amines.

Hazardous Decomposition Products: Carbon monoxide, aldehydes, acids & other organic substances may be formed during combustion (>500F) temperature degradation.

Hazardous Polymerization: May Occur __ May Not Occur XX (Avoid heating >300F).

Section 6 - HEALTH HAZARD DATA:

Route(s) of Entry: Inhalation: YES Skin: YES Ingestion: YES

Health Hazards (Acute and Chronic):

Product moderately irritating to eyes, skin; contact with product at elevated temperatures can result in thermal burns; may cause skin sensitization; low order of acute oral toxicity noted; unlikely to be inhalation hazard due to low volatility.

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

Signs and Symptoms of Exposure & First Aid Procedures:

Eye contact - irritation: flush eyes with copious amounts of water for 15 min. while holding eyes open. Get medical attention immediately.

Skin contact - irritation/rash: remove contaminated clothing and wash with soap/water. Get medical attention if symptoms persist, (contaminated leather articles, i.e. shoes, should be disposed of as contaminated waste). NOTE: hot product burns require immediate medical attention.

Inhalation - Remove to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Ingestion - Do not induce vomiting. In general, no treatment unless large amount is ingested; however, get medical advice.

NOTE TO PHYSICIAN: Emesis induction is normally not necessary in high viscosity, low volatility products, e.g. neat epoxy resins.

Medical Conditions Generally Aggravated by Exposure: Pre-existing eye/skin disorders or lung allergies.

Section 7 - PRECAUTIONS FOR SAFE HANDLING AND USE:

Steps to Be Taken in Case Material is Released or Spilled: Product may burn although not readily ignitable. Use cautious judgment when cleaning up large spills. Respirator and protective equipment as appropriate. Dike and contain material. Soak up residue with absorbent (clay, sand) materials and dispose of properly.

Waste Disposal Method: If product becomes waste, not considered hazardous waste by RCRA criteria (40 CFR 261). Dispose of according to federal, state and local regulations.

Precautions to Be Taken in Handling and Storing: Store in cool, dry place away from open flames and high temperatures.

Other Precautions: Empty containers may contain product residues and should be disposed of properly.

Section 8 - CONTROL MEASURES:

Respiratory Protection (Specify Type): Organic vapor respirator in areas with poor ventilation.

Ventilation: Local Exhaust: Good Mechanical (General): As needed.

Protective Clothing or Equipment: Safety glasses/goggles with side shields, chemically resistant gloves and other protective equipment to avoid direct contact.

Work/Hygienic Practices: Avoid contact with eyes or skin. Use in well ventilated area. Wash hands with soap and water after product use. Launder contaminated clothing before reuse and disposed of leather articles as contaminated waste.

NA = Not applicable
NE = Not established

The data contained herein is based upon information that Pacer Technology believes to be reliable. Users of this product have the responsibility to determine the suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, express or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.