

**SECTION I**
**- H M I S -**

Health	: 2
Flammability	: 0
Reactivity	: 0
Personal Protection	:

(Hazard Rating: 0=Least,1=Slight,2=Moderate,3=High,4=Extreme,\*=Chronic)

Emergency # : 1-800-424-9300 Chemtrec

Product Class : DIVISION 3

Mfg. code I.D. : 3717001

 Trade Name : **BP81-COMPONENT A**
**SECTION II-A  
HAZARDOUS COMPONENTS**

No. Component	CAS#	% by Weight	SARA 313	VAPOR PRESSURE (mm Hg @ 20 C)	LEL (@ 25 C)
1. Butyl Glycidl Ether	2426-08-06	5-10	NO	3.20 @ 25 C	N/A
2. Bisphenol A/ Epichlorohydrin Resin	25068-38-6	40-45	NO	N/A	N/A
3. Para-Nonyl Phenol	84852-15-3	1-5	NO	N/A	N/A
4. Talc	14807-96-6	40-45	NO	N/A	N/A

N/A = Not Applicable

None of the components of this product are recognized as carcinogenic.

Under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372, chemicals listed on the 313 List (40 CFR Part 373.65) are identified under the heading "SARA 313".

**SECTION II-B  
OCCUPATIONAL EXPOSURE LIMITS**

	No. 1	2.	3.	4.
<b>OSHA</b>				
PEL/TWA	270 mg/m3	N/E	N/E	2 mg/m3
PEL/CEILING	N/E	N/E	N/E	N/E
PEL/STEL	N/E	N/E	N/E	N/E
SKIN	N/E	N/E	N/E	N/E
<b>ACGIH</b>				
TLV/TWA	133 mg/m3	N/E	N/E	2 mg/m3*
TLV/CEILING	N/E	N/E	N/E	N/E
TLV/STEL	N/E	N/E	N/E	N/E
SKIN	N/E	N/E	N/E	N/E

N/E = Not established \* Respirable dust

Skin absorption may contribute to the overall exposure to this material. Take appropriate measures to prevent skin contact.

**SECTION III  
PHYSICAL DATA**

<b>Boiling Point</b>	: Not established
<b>% Volatile by volume</b>	: Not applicable
<b>Evaporation Rate</b>	: < 1 (ether = 1)
<b>% Volatile by weight</b>	: Not applicable
<b>Vapor Density</b>	: > 1 (air = 1)
<b>Weight per gallon</b>	: 12.65 (Theoretical)
<b>pH Level</b>	: Not applicable

**SECTION IV  
HEALTH INFORMATION**

**EYE CONTACT:** Based on the presence of component 1 this product is presumed to be irritating to the eyes. Exposure may cause corneal injury.

**SKIN CONTACT:** Based on the presence of component 1 this product may cause an allergic reaction in susceptible individuals. Prolonged or repeated contact may cause skin irritation and may stain skin. Based on the presence of component 2 contact with the skin may result in skin sensitization to epoxies. Individuals who have developed a skin sensitization can develop these symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor. This skin sensitization may be temporary or permanent. Once an individual is diagnosed as being sensitized, no further exposure can be permitted.

**INHALATION:** Based on the presence of component 1 excessive inhalation, even on a single prolonged exposure, may cause adverse effects. These include severe irritation of the upper respiratory tract, lungs, liver, and kidneys. Based on the presence of component 21 as a result of repeated overexposures or exposure to a single large dose, certain individuals may develop lung sensitization (chemical asthma) to epoxies which will cause them to react to a later exposure at very low levels. Once an individual is diagnosed as being sensitized, no further exposure can be permitted. This lung sensitization may be either temporary or permanent. Based on the presence of component 3 product vapors/mists may be corrosive to the nose, throat, respiratory tract and other mucous membranes.

**INGESTION:** Based on the presence of component 1 this product is presumed to slightly toxic.

**SIGNS AND SYMPTOMS:** Symptoms of eye irritation include pain, tearing, reddening, and swelling. Symptoms of skin irritation include reddening, swelling, rash, and redness. Symptoms of respiratory irritation include runny nose, sore throat, coughing, chest discomfort, shortness of breath, and reduced lung function. Symptoms of gastrointestinal irritation include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Skin sensitization results in allergic dermatitis which may include rash, itching, hives and swelling of extremities. Lung sensitization results in asthma-like symptoms: chest tightness, shortness of breath, wheezing and coughing. These symptoms may be immediate or delayed up to several hours.

**AGGRAVATED MEDICAL CONDITIONS:** Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product. Persons with asthmatic-type conditions, chronic bronchitis, other chronic respiratory diseases, recurrent skin eczema, sensitization or allergies should be excluded from working with epoxies.

**OTHER HEALTH EFFECTS:** None recognized.

### SECTION V EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Immediately flush eyes with copious amounts of water for at least fifteen (15) minutes while holding eyelids open. Seek prompt medical attention.

**SKIN CONTACT:** Remove contaminated shoes and clothing. Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

**INHALATION:** Remove victim from exposure source. Treat symptomatically.

**INGESTION:** Dilute with liquid unless the victim is unconsciousness or very drowsy. If vomiting occurs spontaneously, keep the victim's head below the hips to prevent aspiration into the lungs. Consult a physician, hospital, or poison control center and/or transport to an emergency facility immediately.

### SECTION IX ENVIRONMENTAL PROTECTION

**SPILL OR LEAK PROCEDURES: LARGE SPILLS>>** Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. Remove/extinguish ignition sources. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above. **SMALL SPILLS>>** Take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.

**WASTE DISPOSAL:** Observe all Federal, State and local regulations regarding proper disposal.

### SECTION VI FIRE AND EXPLOSION HAZARDS

**FLAMMABILITY CLASSIFICATION**

- **NFPA:** Combustible Liquid - Class IIA

- **DOT:** Bulk Shipments Only; Combustible Liquid, N.O.S. (Butyl Glycidyl Ether) NA 1993, III

**FLASH POINT:** 147 degrees F (estimate)

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or Carbon Dioxide

**SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:**

**WARNING: COMBUSTIBLE.** Clear area of unprotected personnel. Do not enter confined fire space without helmet, face shield, bunker coat, gloves, rubber boots, and a positive pressure NIOSH approved self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which may result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

### SECTION X ADDITIONAL PRECAUTIONS

Keep liquid and vapor away from heat, sparks, and flame. Extinguish pilot lights and cigarettes, and turn off other possible sources of ignition prior to use and until vapors are gone. Surfaces that are sufficiently hot may ignite product in the absence of sparks or flame. Vapors may accumulate and travel to ignition sources distant from the handling site. Keep containers closed when not in use. Use with adequate ventilation. Containers, even if empty, can contain explosive vapors. Do not cut, drill, grind or weld near containers. Containers can contain hazardous product residues even when empty. Wash with soap and water before eating, drinking, smoking or using toilet facilities.

The information contained herein is based on the data available to us and is believed to be correct. However, we make no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injury from the use of the product described herein.

### SECTION VII REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS AND MATERIALS TO AVOID:** Avoid oxidizing materials, strong acids, alkaline materials, amines, polyamines, and polyamides under uncontrolled conditions

**HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion may yield Carbon Dioxide, Carbon Monoxide, and/or incomplete combustion products. Do not breathe smoke or fumes. Wear appropriate protective equipment.

### SECTION VIII EMPLOYEE PROTECTION

**RESPIRATORY PROTECTION:** Use ventilation as required to control vapor concentrations - at least 10 air changes per hour are recommended for good general room ventilation. If exposure exceeds the PEL/TLV, use the appropriate NIOSH approved respirator.

**PROTECTIVE CLOTHING:** Wear safety glasses, goggles, or a splash shield to prevent eye contact. Contact lenses should not be worn. Wear appropriate gloves and protective clothing to prevent contact with skin and clothing.

**ADDITIONAL PROTECTIVE MEASURES:** Eye wash fountains and safety showers should be available for use in an emergency.