

# SAFETY DATA SHEET

**Date Issued :** 7/6/2012  
**MSDS No :** F-4000-021  
**Date Revised :** 1/28/2013  
**Revision No :** 1

## KL-320 Epoxy Kit: Resin

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** KL-320 Epoxy Kit: Resin  
**GENERAL USE:** Sealing leaks in vacuum systems  
**ALTERNATE TRADE NAME(S) / PRODUCT CODE(S):** KL-320KB

#### MANUFACTURER

Kurt J Lesker Company  
 United States  
 1925 Route 51  
 Jefferson Hills, PA 15025  
**E-Mail:** msds@lesker.com  
**Service Number:** 412-387-9200  
 Kurt J Lesker Company LTD  
 United Kingdom  
 15-16 Burgess Road  
 Hastings, East Sussex, TN35 4NR  
 England  
**Service Number:** +44 (0) 1424 458100

#### 24 HR. EMERGENCY TELEPHONE NUMBERS

24-Hour Emergency Response provided by  
 3E Global Incident Response Hotline

When calling, refer to Kurt J Lesker Company  
 Global Response Access Code: 333594

North America [USA, Canada, Mexico]: 1-866-519-4752  
 Mainland China: (+86) 4001 2001 74  
 Europe: {int'l call prefix}-1-760-476-3961  
 Asia Pacific: {int'l call prefix}-1-760-476-3960  
 Middle East & Africa: {int'l call prefix}-1-760-476-3959

### 2. HAZARDS IDENTIFICATION

#### HAZARD DESIGNATION

"Xn" - Harmful  
 R36/38: Irritating to eyes and skin.  
 R43: May cause sensitisation by skin contact.  
 "N" - Dangerous for the environment  
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### GHS CLASSIFICATIONS

Health	Environmental
Eye Irritation, Category 2 Skin Irritation, Category 2 Skin Sensitization, Category 1	Chronic Hazards to the Aquatic Environment, Category 2

#### GHS LABEL



Environment



Exclamation mark

## WARNING

H317: May cause an allergic skin reaction.  
 H319: Causes serious eye irritation.  
 H315: Causes skin irritation.  
 H411: Toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENT(S)****Prevention:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P264: Wash ... thoroughly after handling.  
 P273: Avoid release to the environment.

**Response:**

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

**EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Clear liquid**IMMEDIATE CONCERNS:** May cause an allergic skin reaction.**POTENTIAL HEALTH EFFECTS****EYES:** Causes eye irritation.**SKIN:** Causes skin irritation.**SKIN ABSORPTION:** May be harmful in contact with skin.**INGESTION:** May be harmful if swallowed.**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****CHRONIC EFFECTS:** Not Available**CARCINOGENICITY:** Not listed as a human carcinogen**MUTAGENICITY:** Not Available**REPRODUCTIVE TOXICITY****REPRODUCTIVE EFFECTS:** Not Available**TERATOGENIC EFFECTS:** Not Available**ROUTES OF ENTRY:** Inhalation, ingestion, eye contact, or skin contact.**IRRITANCY:** May cause irritation of skin, eyes, and respiratory tract.**SENSITIZATION:** May cause skin sensitization, an allergic reaction, which becomes evident on re exposure to this material.**PHYSICAL HAZARDS:** This substance is not considered hazardous in the form supplied.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Wt.%	CAS	EINECS
Bisphenol A-(Epichlorohydrin) / Epoxy Resin	> 50	25068-38-6	500-033-5

**4. FIRST AID MEASURES****EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.**SKIN:** Remove contaminated clothing. Wash with soap and water. Get medical attention immediately.**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.**5. FIRE FIGHTING MEASURES****FLASH POINT AND METHOD:** > 100°C

**AUTOIGNITION TEMPERATURE:** Not Available

**FLAMMABLE CLASS:** Combustible.

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**FIRE FIGHTING PROCEDURES:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Clean up spills immediately, observing precautions in Protective Equipment section.

**LARGE SPILL:** Collect spilled material in appropriate container. Spill may be reportable . Consult section 15 for Reportable Quantities.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

**GENERAL PROCEDURES:** Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Eliminate all ignition sources if safe to do so. Avoid formation of dust. Provide appropriate exhaust ventilation where dust is formed. Avoid breathing (dust, vapor, mist, gas). Practice good chemical hygiene during and after use. Avoid release to the environment.

## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** To avoid risks to human health and the environment, comply with the instructions for use.

**HANDLING:** Protect from moisture. Keep away from heat and flame. Avoid formation of dust. Provide appropriate exhaust ventilation where dust is formed. Do not breath (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**STORAGE:** Keep container closed when not in use. Store in a cool dry place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield.

**SKIN:** Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse.

**RESPIRATORY:** If ventilation is inadequate and this material is handled at elevated temperatures or dusts/fumes/mists are generated a NIOSH/MSHA approved air purifying respirator with a manufacturers approved cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**PROTECTIVE CLOTHING:** Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

**WORK HYGIENIC PRACTICES:** Practice good chemical hygiene during and after use.

**COMMENTS:** There are no established workplace exposure limits for components of this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Mild

**COLOR:** Clear

**pH:** Not Available

**VAPOR PRESSURE:** < 1 mm Hg at 20°C

**VAPOR DENSITY:** > 1

**BOILING POINT:** > 100°C

**FLASH POINT AND METHOD:** > 100°C

**SOLUBILITY IN WATER:** Negligible

**DENSITY:** Not Available

**SPECIFIC GRAVITY:** 1.300

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides

**INCOMPATIBLE MATERIALS:** Strong acids, Strong bases, Oxidizing materials, Halogens.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** Not Available

**ORAL LD<sub>50</sub>:** Not Available

**INHALATION LC<sub>50</sub>:** Not Available

### CARCINOGENICITY

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**REPRODUCTIVE EFFECTS:** Not Available

**TERATOGENIC EFFECTS:** Not Available

**MUTAGENICITY:** Not Available

## 12. ECOLOGICAL INFORMATION

**BIOACCUMULATION/ACCUMULATION:** Not Available

**AQUATIC TOXICITY (ACUTE):** Not Available

**CHEMICAL FATE INFORMATION:** Not Available

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of according to applicable federal, state, provincial, and local regulations.

**PRODUCT DISPOSAL:** Contact a licensed waste disposal company.

**EMPTY CONTAINER:** Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** Not Regulated

### ROAD AND RAIL (ADR/RID)

**PROPER SHIPPING NAME:** Not Regulated

### AIR (ICAO/IATA)

**SHIPPING NAME:** Not Regulated

### VESSEL (IMO/IMDG)

**SHIPPING NAME:** Not Regulated

### CANADA TRANSPORT OF DANGEROUS GOODS

**SHIPPING NAME:** Not Regulated

## 15. REGULATORY INFORMATION

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**311/312 HAZARD CATEGORIES:** Acute health hazard. Chronic health hazard.

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All components of this product are included in inventory, exempt, or notified

#### REGULATIONS

**STATE REGULATIONS:** Not listed

**CALIFORNIA PROPOSITION 65:** This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

### CANADA

**WHMIS HAZARD SYMBOL AND CLASSIFICATION**

Corrosive

**DOMESTIC SUBSTANCE LIST (INVENTORY):** All components of this product are included in inventory, exempt, or notified

**EUROPEAN COMMUNITY****EEC LABEL SYMBOL AND CLASSIFICATION**

"Xn" - Harmful

R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

S1/2: Keep locked up and out of reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.



"N" - Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

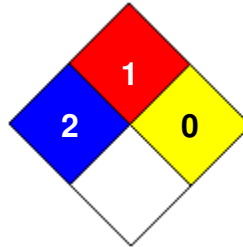
S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

**INTERNATIONAL REGULATIONS****(WGK) CLASSIFICATION:** 2- Hazardous

**GENERAL COMMENTS:** All components of this product are included in inventory, exempt, or notified: USA TSCA, Philippines PICCS, Korean KECL, European EINECS, Canadian DSL

**16. OTHER INFORMATION****APPROVED BY:** EHS DEPT**PREPARED BY:** E Bolton**INFORMATION CONTACT:** msds@lesker.com**REVISION SUMMARY:** This MSDS replaces the 7/25/2012 MSDS.**HMIS RATING**

<b>HEALTH</b>	*	<b>2</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>
<b>PERSONAL PROTECTION</b>		<b>C</b>

**NFPA CODES****MANUFACTURER DISCLAIMER:**

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