

# MATERIAL SAFETY DATA SHEET

In an Emergency Call 800/424-9300

**Engineered Polymers, Inc.**  
2842 Progress Road  
Madison, WI 53716  
608/661-2800

**QS Epoxy - B**  
Revision Date:12/01/2003  
Page 1

## SECTION 1: MATERIAL IDENTIFICATION

PRODUCT NAME: QS EPOXY – B

## SECTION 2: INGREDIENTS

CAS No. Description:  
25068-38-6 bisphenol A-(epichlorohydrin): epoxy resin

Identification number (s): No Longer Polymer (NLP)

BINECS Number: 500-033-5

BU Number: 603-074-00-8

## SECTION 3: HAZARD IDENTIFICATION

Information pertaining to particular dangers for man and environment

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitization by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Contains epoxy constituents. See information supplied by the manufacturer.

Additional information:

The residue of epichlorohydrin corresponds to the recommendations of APME: Epoxy resins < 5 ppm (0,0005%)

## SECTION 4: FIRST AID MEASURES

### General information

Immediately remove any clothing soiled by the product.

### After inhalation

Supply fresh air and to be sure call for a doctor. In case of unconsciousness, place patient stably in side position for transportation.

### After skin contact

Immediately wash with water and soap and rinse thoroughly.

### After eye contact

Rinse opened eye for several minuets under running water. Seek immediate medical advice.

### After swallowing

Rinse out mouth and then drink plenty of water. Seek medical treatment.

## SECTION 5: FIRE FIGHTING MEASURES

### Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents** Water with full jet.

### Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released: Carbon monoxide (CO)  
In certain fire c0nditionc, traces of other toxic gases cannot be excluded, e.g.  
Hydrogen chloride (HC1)

# MATERIAL SAFETY DATA SHEET

In an Emergency Call 800/424-9300

**Engineered Polymers, Inc.**  
2842 Progress Road  
Madison, WI 53716  
608/661-2800

**QS Epoxy - B**  
Revision Date:12/01/2003  
Page 2

## Protective equipment

Wear fully protective suit.  
Wear self-contained respiratory protective device.

## Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

### Measures for environmental protection:

Do not allow to enter sewers/surface or ground water.  
Do not allow to penetrate the ground soil.

### Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomate, acid binders, universal binders, sawdust.)  
Dispose contaminated material as waste according to item 13.

## SECTION 7: HANDLING AND STORAGE

### Handling

#### Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

#### Information about protection against explosions and fires:

No special measures required.

### Storage

#### Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

#### Information about storage in one common storage facility:

Not required.

#### Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Additional information about design of technical systems:

No further data: See item 7

### Personal protective equipment

#### General protective and hygienic measures

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

#### Breathing equipment:

Not necessary if room is well-ventilated.

#### Eye protection:

Tightly sealed goggles.

#### Body protection:

Protective work clothing.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous
Color:	Light yellow
Odor:	Weak, characteristic
Change in condition	
Boiling point/Boiling range	> 200°C (> 392°F) (DIN 53171)
Flash Point:	> 250°C (> 482°F) (ISO 2719)
Ignition temperature:	460°C (860°F) (DIN 53794)
Decomposition temperature:	> 200° (> 392°F) (DIN 53171)
Vapor pressure at 20°C (68°F):	< 0.1 mPa
Density at 20°C (68°F):	1.16 – 1.18 g/cm <sup>3</sup> (ISO 2811)

# MATERIAL SAFETY DATA SHEET

In an Emergency Call 800/424-9300

**Engineered Polymers, Inc.**  
2842 Progress Road  
Madison, WI 53716  
608/661-2800

**QS Epoxy - B**  
Revision Date:12/01/2003  
Page 3

Solubility in / Miscibility with  
Water: Soluble  
Viscosity:  
Dynamic at 25°C (77°F): 8000-13000 mPa (ISO 9371)

## SECTION 10: STABILITY AND REACTIVITY

### **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

### **Dangerous reactions**

May produce violent reactions with bases and numerous organic substances including alcohols and amines

Exothermic polymerization

**Dangerous products of decomposition:** Irritant gases/vapors

## SECTION 11: TOXICOLOGICAL INFORMATION

### **Acute toxicity:**

#### **LD/LC50 values that are relevant for classification:**

25068-38-6 bisphenol-A-epichlorohydrin resin, mw < 700

Oral LD50 11400 mg/kg (rat)

Dermal LD50 > 2000 mg/kg (rabbit)

### **Primary irritant effect:**

**On the skin:** Irritant to skin and mucous membranes.

**On the eye:** Irritating effect.

**Sensitization:** sensitization possible through skin contact.

### **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## SECTION 12: ECOLOGICAL INFORMATION

### **Information about elimination (persistence and degradability):**

**Other information:** The product is difficultly biodegradable.

### **Ecotoxic effects:**

#### **Aquatic toxicity:**

Type of test	Effective concentration	Method	Assessment
Rainbow trout	LC 50 (96h)	1.5 – 7.7 mg/l	
Daphnia magna	EC 50 (24h)	1.1 – 3.6 mg/l	
Green algae	EC 50 (96h)	220 mg/l	

(Bisphenol-A-epichlorohydrin resin. MG < 700)

### **General notes:**

Do not allow product to reach ground water, water course or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **Product:**

#### **Recommendation**

Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

#### **Unclean packaging:**

#### **Recommendation:**

Disposal must be made according to official regulations.

## SECTION 14: TRANSPORT INFORMATION

### **DOT regulations:**

**Hazard class:**

N/A

**Identification number:**

UN3082

# MATERIAL SAFETY DATA SHEET

In an Emergency Call 800/424-9300

**Engineered Polymers, Inc.**  
2842 Progress Road  
Madison, WI 53716  
608/661-2800

**QS Epoxy - B**  
Revision Date:12/01/2003  
Page 4

<b>Packing group:</b>	III
<b>Proper shipping name (technical Name):</b>	Epichlorohydrin-bisphenol A
<b>Land transport ADR/RID (cross-border) Item:</b>	Liquid, n.o.s. (epoxide derivatives) Non Hazardous 11c)
<b>Description of goods:</b>	Environmentally hazardous substance, Liquid, n.o.s. (epoxide derivatives)
<b>Maritime transport IMDG:</b>	
<b>IMDG Class:</b>	N/A
<b>Page:</b>	9028
<b>UN Number:</b>	3082
<b>Packaging group:</b>	III
<b>EMS Number:</b>	None
<b>MFAG:</b>	None
<b>Marine pollutant:</b>	no
<b>Proper shipping name:</b>	Liquid, n.o.s. (epoxide derivatives)
<b>Air transport ICAO-TI and IATA-DGR:</b>	
<b>ICAO/IATA Class:</b>	N/A
<b>UN/ID Number:</b>	3082
<b>Packaging group:</b>	III
<b>Proper shipping name:</b>	Liquid, n.o.s. (epoxide derivatives)

## SECTION 15: REGULATIONS

### Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

### Code letter and hazard designation of product:

Xi Irritant  
N Dangerous for the environment

### Risk phrases:

36/38 Irritating to eyes and skin  
43 May cause sensitization by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# MATERIAL SAFETY DATA SHEET

In an Emergency Call 800/424-9300

## Engineered Polymers, Inc.

2842 Progress Road

Madison, WI 53716

608/661-2800

**QS Epoxy - B**

Revision Date:12/01/2003

Page 5

### **Safety phrases:**

28 After contact with skin, wash immediately with plenty of soap and water

37/39 Wear Suitable gloves and eye/face protection.

61 Avoid release to the environment. Refer to special instructions/  
Safety data sheets

### **Special labeling of certain preparations:**

Contains epoxy constituents. See information supplied by the manufacturer.

**This information herein is given in good faith, but no warranty, expressed or implied, is made.**