



Date printed: 22.04.2008, Revision: 22.04.2008

Page 1 / 5

**1 Identification of the substance / preparation and of the company**

**Product:** Buehler EpoMix Resin  
**Article number:** 20-8133-xxx  
**Registration number:** not applicable  
**Use:** Epoxy resin  
**Identified use:** none  
**Method of operation:** See product information.  
**Company:** Buehler GmbH  
 In der Steele 2  
 D-40599 Düsseldorf (Germany/Allemagne)  
  
**Phone:** 0800 707 6273  
**Fax:** 0800 707 6274  
**Homepage:** www.buehler-met.de/en/  
**E-mail:** sales@buehler.co.uk  
**Emergency phone:** 0800 707 6273 (Only valid if dialled within the UK)  
**Responsible:** Simonavicius@chemiebuero.de

**2 Hazards identification**

**Physico-chemical hazards:** See chapter 10.  
**Human health dangers:** See R-phrases.  
**Environmental hazards:** See R-phrases.  
**Other hazards:** none  
**Hazard symbols:**
 Harmful
  Dangerous for the environment

**R-phrases:** R 40: Limited evidence of a carcinogenic effect.  
 R 36/38: Irritating to eyes and skin.  
 R 43: May cause sensitisation by skin contact.  
 R 68: Possible risk of irreversible effects.  
 R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**3 Composition / Information on ingredients**

Butyl 2,3-epoxypropyl ether	10 - < 20%
Xn, R10-20/22-37-40-43-52/53-68 CAS: 2426-08-6, EINECS/ELINCS: 219-376-4, EU-INDEX: 603-039-00-7, ECBnr:	
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700	80 - < 100%
Xi-N, R36/38-43-51/53 CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8, ECBnr:	
For the wording of the listed risk phrases refer to section 16.	

**4 First aid measures**

**General information:** Change soaked clothing.  
**Inhalation:** Ensure supply of fresh air.  
 In the event of symptoms seek for medical treatment.  
**Skin contact:** In case of contact with skin wash off immediately with soap and water.  
 Consult a doctor if skin irritation persists.  
**Eye contact:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
**Ingestion:** Consult a doctor immediately.  
 Do not induce vomiting.  
 Rinse out mouth and give plenty of water to drink.  
**Advice to doctor:** Treat symptomatically.



### 5 Fire-fighting measures

<b>Suitable extinguishing media:</b>	Carbon dioxide. Foam. Water spray jet. Dry powder.
<b>Extinguishing media that must not be used:</b>	Full water jet.
<b>Special exposure hazards arising from the substance or preparation itself or combustion products:</b>	Unknown risk of formation of toxic pyrolysis products.
<b>Special protective equipment for firefighters:</b>	Use self-contained breathing apparatus.
<b>Additional information:</b>	Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

### 6 Accidental release measures

<b>Personal precautions:</b>	Keep away from all sources of ignition. High risk of slipping due to leakage/spillage of product. Ensure adequate ventilation.
<b>Environmental precautions:</b>	Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.
<b>Methods for cleaning up:</b>	Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

### 7 Handling and storage

<b>Advice on safe handling:</b>	Use only in well-ventilated areas. No special measures necessary if used correctly.
<b>Advice on protection against fire and explosion:</b>	No special measures necessary.
<b>Requirements for storage rooms and vessels:</b>	Keep only in original container.
<b>Advice on storage compatibility:</b>	Do not store together with oxidizing agents.
<b>Further information on storage conditions:</b>	Keep container tightly closed.  Keep container in a well-ventilated place.

### 8 Exposure controls / personal protection

<b>Additional advice on system design:</b>	Ensure adequate ventilation on workstation.
--	---

#### Ingredients with occupational exposure limits to be monitored: (GB)

( not applicable )

<b>Respiratory protection:</b>	not applicable
<b>Hand protection:</b>	Nitrile, >480 min (EN 374).
<b>Eye protection:</b>	Safety glasses.
<b>Skin protection:</b>	Light protective clothing of plastic material.
<b>General protective measures:</b>	Avoid contact with eyes and skin. Do not inhale vapours. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
<b>Hygiene measures:</b>	Do not eat, drink, smoke or take drugs at work. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Remove soiled or soaked clothing immediately. Use barrier skin cream.
<b>Delimitation and monitoring of the environmental exposition:</b>	not applicable



### 9 Physical and chemical properties

Form:	liquid
Color:	yellow
Odor:	characteristic
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [°C]:	not determined
Flash point [°C]:	74
Flammability [°C]:	not determined
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Oxidizing properties:	no
Vapour pressure [kPa]:	not determined
Density [g/ml]:	1,1299
Density at [°C]:	20°C
Bulk density [kg/m³]:	not applicable
Solubility in water:	immiscible
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	not applicable
Relative vapour density determined in air:	not determined
Evaporation speed:	not determined
Melting point [°C]:	not determined
Autoignition temperature [°C]:	not applicable
Decomposition temperature [°C]:	not determined

### 10 Stability and reactivity

Hazardous reactions:	Reactions with amines. Reactions with oxidizing agents.
Hazardous decomposition products:	No hazardous decomposition products known.

### 11 Toxicological information

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none
General remarks:	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.



## 12 Ecological information

<b>Fish toxicity:</b>	not determinated
<b>Daphnia toxicity:</b>	not determinated
<b>Behaviour in environment compartments:</b>	not determinated
<b>Behaviour in sewage plant:</b>	not determinated
<b>Bacteria toxicity:</b>	not determinated
<b>Biological degradability:</b>	not determinated
<b>COD:</b>	not determinated
<b>BOD 5:</b>	not determinated
<b>AOX-advice:</b>	The product contains organically bound halogen in accordance with the formulation.
<b>2006/11/EC:</b>	yes
<b>General information:</b>	The product was classified on the basis of the calculation procedure of the preparation directive.

## 13 Disposal considerations



<b>Disposal / Product:</b>	Disposal in an incineration plant in accordance with the regulations of the local authorities. Dispose of as hazardous waste.
<b>Disposal / Contaminated packaging:</b>	Packaging that cannot be cleaned should be disposed of as for product.  Uncontaminated packaging may be taken for recycling.
<b>Waste no. (recommended):</b>	080409*

## 14 Transport information

<b>Classification according to ADR:</b>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9, III
- <b>Classification Code:</b>	M6
- <b>ADR Limited Quantities:</b>	LQ7: 5l
- <b>Label:</b>	
<b>Classification according to IMDG:</b>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin) 9 III
- <b>IMDG Limited Quantities:</b>	LQ: 5 l
- <b>EMS:</b>	F-A, S-F
- <b>Label:</b>	
<b>Classification according to IATA:</b>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy resin-mixture) 9 III
- <b>Label:</b>	



## 15 Regulatory information

<b>Exposure scenario:</b>	not applicable
<b>Chemical safety report:</b>	not applicable
<b>Labelling:</b>	The product is classified and labelled in accordance within EC-directives.
<b>Hazard symbols:</b>	  Harmful                      Dangerous for the environment
<b>Contains:</b>	- Butyl 2,3-epoxypropyl ether - Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700)
<b>R-phrases:</b>	R 40: Limited evidence of a carcinogenic effect. R 36/38: Irritating to eyes and skin. R 43: May cause sensitisation by skin contact. R 68: Possible risk of irreversible effects. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-phrases:</b>	S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S 61: Avoid release to the environment. Refer to special instructions, safety data sheets.
<b>Special labelling:</b>	Contains epoxy-containing compounds. Observe manufacturer's instructions.
<b>Authorisation, TITEL VII:</b>	not applicable
<b>Restrictions, TITEL VIII:</b>	not applicable
<b>EEC-REGULATIONS:</b>	1967/548 (2004/73, 29. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
<b>TRANSPORT-REGULATIONS:</b>	ADR (2007); IMDG-Code (33. Amdt.); IATA-DGR (2008).
<b>NATIONAL REGULATIONS (GB)</b>	EH40/2005 Workplace exposure limits with amendments October 2007.

## 16 Other informations

<b>R-phrases (Chapter 03):</b>	R 40: Limited evidence of a carcinogenic effect. R 68: Possible risk of irreversible effects. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 43: May cause sensitisation by skin contact. R 37: Irritating to respiratory system. R 10: Flammable. R 20/22: Harmful by inhalation and if swallowed. R 36/38: Irritating to eyes and skin.
<b>Modified position:</b>	none
<b>Observe employment restrictions for people:</b>	yes
<b>VOC (1999/13/CE):</b>	not determinated
<b>Customs Tariff:</b>	not determinated