

Date printed: 20.03.2009, Revision: 20.03.2009

Page 1 / 5

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

**Product:** EpoPlast Resin  
**Article number:** 11 10 61  
**Registration number:** not applicable  
**Use:** Epoxide, Castable Mounting  
**Identified use:** none  
**Method of operation:** See product information.  
**Company:** Buehler GmbH  
 In der Steele 2  
 D-40599 Düsseldorf / GERMANY  
  
**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) +49 (0) 211 974100  
**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:**



Irritant



Dangerous for the environment

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

**3 Composition / Information on ingredients**

12,5 - 25%	Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight $\leq$ 700)
Xi-N, R36/38-43-51/53 CAS: 9003-36-5, EINECS/ELINCS: 500-006-8, EU-INDEX: , ECBnr:	
50 - 100%	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight $\leq$ 700)
Xi-N, R36/38-43-51/53 CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8, ECBnr:	
12,5 - 25%	1,6-Bis(2,3-epoxypropoxy)hexane
Xi, R36/38-43-52/53 CAS: 16096-31-4, EINECS/ELINCS: 240-260-4, EU-INDEX: , ECBnr:	

**Comment on component parts:** 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

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

### 6 Accidental release measures

- Personal precautions:** High risk of slipping due to leakage/spillage of product.
- Environmental precautions:** Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.
- Methods for cleaning up:** 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

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

### 8 Exposure controls / personal protection

- Additional advice on system design:**  
Ensure adequate ventilation on workstation.
- Ingredients with occupational exposure limits to be monitored:**  
not applicable
- Respiratory protection:** not applicable
- Hand protection:** Butyl rubber, >120 min (EN 374).
- Eye protection:** Safety glasses.
- Skin protection:** Light protective clothing of plastic material.
- General protective measures:** Avoid contact with eyes and skin.  
Do not inhale vapours.
- Hygiene measures:** Do not eat, drink, smoke or take drugs at work.  
Remove soiled or soaked clothing immediately.  
Wash hands before breaks and after work.  
Use barrier skin cream.
- Delimitation and monitoring of the environmental exposition:**  
not applicable

**9 Physical and chemical properties**

<b>Form:</b>	liquid
<b>Color:</b>	light yellow
<b>Odor:</b>	characteristic
<b>pH-value:</b>	not applicable
<b>pH-value [1%]:</b>	not applicable
<b>Boiling point [°C]:</b>	> 200
<b>Flash point [°C]:</b>	>150
<b>Flammability [°C]:</b>	>300
<b>Lower explosion limit:</b>	not applicable
<b>Upper explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	0,2 (20°C)
<b>Density [g/ml]:</b>	~1,14
<b>Density at [°C]:</b>	20°C
<b>Bulk density [kg/m³]:</b>	not applicable
<b>Solubility in water:</b>	immiscible
<b>Partition coefficient [n-octanol/water]:</b>	not determined
<b>Viscosity:</b>	2000 mPa.s (20°C)
<b>Relative vapour density determined in air:</b>	not determined
<b>Evaporation speed:</b>	not determined
<b>Melting point [°C]:</b>	not determined
<b>Autoignition temperature [°C]:</b>	not determined
<b>Decomposition temperature:</b>	>200

**10 Stability and reactivity**

<b>Hazardous reactions:</b>	Reactions with alcohols. Reactions with amines. Reactions with strong alkalies.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products known.

**11 Toxicological information**

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

Date printed: 20.03.2009, Revision: 20.03.2009

Page 4 / 5







**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>Product:</b>	Disposal in an incineration plant in accordance with the regulations of the local authorities. Dispose of as hazardous waste.
<b>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/F Epoxy resin) 9 (N), III	
- Classification Code:	M6	
- Label:		
- ADR LQ	LQ7: 5l	
- ADR 1.1.3.6 (8.6):	Transport category (tunnel restriction code): 3 (E)	
<b>Classification according to IMDG:</b>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III MARINE POLLUTANT	
- EMS:	F-A, S-F	
- Label:		
- IMDG Limited Quantities:	LQ: 5 l	
<b>Classification according to IATA:</b>	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A/F Epoxy resin) 9 III	
- Label:		



## 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>	



Irritant



Dangerous for the environment

<b>Contains:</b>	1,6-Bis(2,3-epoxypropoxy)hexane Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight $\leq$ 700) Reaction product: bisphenol-F-(epichlorhydrin) Epoxy resin (number average molecular weight $\leq$ 700)
<b>R-phrases:</b>	R 43: May cause sensitisation by skin contact. R 36/38: Irritating to eyes and skin. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-phrases:</b>	S 24/25: Avoid contact with skin and eyes. S 28.2: After contact with skin, wash immediately with water and soap. S 37/39: Wear suitable 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 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
<b>TRANSPORT-REGULATIONS:</b>	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).
<b>NATIONAL REGULATIONS</b>	EH40/2005 Workplace exposure limits with amendments October 2007.

## 16 Other informations

<b>R-phrases (Chapter 03):</b>	R 43: May cause sensitisation by skin contact. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R 36/38: Irritating to eyes and skin. R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Observe employment restrictions for people:</b>	yes
<b>VOC (1999/13/CE):</b>	0%
<b>Customs Tariff:</b>	not determinated