

# Safety Data Sheet

according to Regulation (EU) No. 1907/2006

## Epoxy resin C

Print date: 12.02.2010

Product code: 120305-2010

Page 1 of 7

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

Epoxy resin C

#### Use of the substance/preparation

epoxy resin systems

#### Company/undertaking identification

Company name: R&G Faserverbundwerkstoffe GmbH  
 Composite Technology  
 Street: Im Meißel 7 - 13  
 Place: D-71111 Waldenbuch  
 Post-office box: 1145  
 D-71107 Waldenbuch  
 Telephone: +49-7157-530460  
 Telefax: +49-7157-530470  
 e-mail: info@r-g.de  
 Internet: www.r-g.de  
 Responsible Department: Management  
 Emergency telephone: poison information centre

### 2. Hazards identification

#### Classification

Indications of danger : Irritant, Dangerous for the environment

R-phrases:

Irritating to eyes.

Irritating to skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

### 3. Composition/information on ingredients

#### Chemical characterization ( Mixture )

Modifiziertes Epoxidharz

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
500-033-5	25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	0 - 100%	Xi, N R36/38-43-51-53

Full text of each relevant R phrase can be found in heading 16.

### 4. First aid measures

#### General information

Change contaminated clothing.

#### After inhalation

Bring the patient out into the fresh air. Consult a doctor when complaints persist.

# Safety Data Sheet

according to Regulation (EU) No. 1907/2006

## Epoxy resin C

Print date: 12.02.2010

Product code: 120305-2010

Page 2 of 7

**After contact with skin**

After contact with skin, wash immediately with soap and plenty of water. If skin becomes irritated, seek medical treatment.

**After contact with eyes**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of durable symptoms, consult an ophthalmologist.

**After ingestion**

Have victim drink large quantities of water, with active charcoal if possible. Move a vomiting patient lying on his back into a stable position on his side. In case of difficulties of breathing administer oxygen. Artificial respiration on respiratory arrest. Do not induce vomiting.

### 5. Fire-fighting measures

**Suitable extinguishing media**

Atomized water. Carbon dioxide (CO<sub>2</sub>). Foam. Dry extinguishing powder.

**Extinguishing media which must not be used for safety reasons**

High power water jet.

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

toxic gases Carbon dioxide. Carbon monoxide.

**Special protective equipment for fire-fighters**

Wear a protective full body suit. Wear breathing apparatus with own air supply.

### 6. Accidental release measures

**Personal precautions**

Remove from all sources of ignition. Do not breathe in vapours. Do not breathe dust. Avoid contact with skin, eyes, and clothing.

**Environmental precautions**

Do not empty into drains or the aquatic environment. Do not allow to enter the soil or subsoil.

**Methods for cleaning up/taking up**

Soak up inert absorbent and dispose as waste requiring special observation.

### 7. Handling and storage

**Handling****Advice on safe handling**

Provide for sufficient ventilation and punctiform suction at critical points. Handle open container with care.

**Advice on protection against fire and explosion**

No special measures are necessary.

**Storage****Requirements for storage rooms and vessels**

Employ reliable measures to prevent the product from entering the soil.

**Advice on storage compatibility**

Keep away from food, drink and animal feeding stuffs.

**Further information on storage conditions**

Keep in well sealed receptacles at a cool, dry location.

Storageclass (VCI):

10

# Safety Data Sheet

according to Regulation (EU) No. 1907/2006

## Epoxy resin C

Print date: 12.02.2010

Product code: 120305-2010

Page 3 of 7

### 8. Exposure controls/personal protection

#### Exposure limit values

#### Exposure controls

##### Protective and hygiene measures

Keep away from sources of ignition. No smoking.  
Avoid contact with skin, eyes, and clothing.

##### Hand protection

Wear protective gloves.

##### Eye protection

Tightly sealed safety glasses. Eye-shade.

##### Skin protection

Wear protective clothing.  
Chemical resistant safety shoes.

### 9. Physical and chemical properties

#### General information

Physical state: liquid  
Colour: light yellow

#### Important health, safety and environmental information

	Test method
pH-Value (at 20 °C):	7
<b>Changes in the physical state</b>	
Boiling point:	> 200 °C
Flash point:	> 200 °C
Vapour pressure: (at 20 °C)	< 0,01 hPa
Density (at 25 °C):	1,15 - 1,2 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	insoluble
Viscosity / dynamic: (at 25 °C)	7.000 - 9.000 mPa·s

### 10. Stability and reactivity

#### Conditions to avoid

Take precautionary measures against static discharges.

#### Materials to avoid

strong acid and alkalis  
Oxidizing agents.

#### Hazardous decomposition products

Carbon dioxide. Carbon monoxide.  
Gas / vapours, harmful.

### 11. Toxicological information

#### Specific effects in experiment on an animal

LD/LC50: 25068-38-6 Bisphenol A-epichlorohydrin resin mw<= 700

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### Epoxy resin C

Print date: 12.02.2010

Product code: 120305-2010

Page 4 of 7

rat: oral LD50: 5.000 mg/kg  
 rabbit: Irritation to skin, eyes, and mucous membranes.  
 Guinea-pig.: Contact may cause skin sensitisation.

## 12. Ecological information

### Ecotoxicity

Bisphenol A-epichlorohydrin resin mw<= 700  
 Oncorhynchus mykiss: LC50 (96h) 1,5 mg/l  
 Daphnia magna: EC50 (96h) 3,6 mg/l  
 Bacterial toxicity: IC50 (3h) > 100 mg/l

### Persistence and degradability

not easily bio-degradable (according to OECD-criteria).

### Further information

Do not let the product enter the groundwater, open water, or the sewerage system.

## 13. Disposal considerations

### Advice on disposal

Dispose of waste according to applicable local, state, and federal regulations. e.g. transfer to a suitable incineration plant Waste key numbers are assigned according to the European Waste Catalogue (EWC) depending on the sector and process type.

### Waste disposal number of waste from residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues  
 Classified as hazardous waste.

### Waste disposal number of used product

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other still bottoms and reaction residues  
 Classified as hazardous waste.

### Contaminated packaging

Dispose of waste according to applicable local, state, and federal regulations.

## 14. Transport information

### Land transport (ADR/RID)

UN number:	3082
ADR/RID class:	9
Classification code:	M6
Warning plate	
Hazard-no.:	90
Hazard label:	9



ADR/RID packing group:	III
Limited quantity:	LQ7
Tunnel restriction code:	E

### Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### Epoxy resin C

Print date: 12.02.2010

Product code: 120305-2010

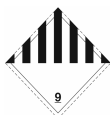
Page 5 of 7

#### Other applicable information (land transport)

: 274 - 601  
 : 3  
 : E  
 Special provisions: 274 335 601  
 E1

#### Marine transport

UN number: 3082  
 IMDG code: 9  
 Marine pollutant: •  
 Hazard label: 9



IMDG packing group: III  
 EmS: F-A, S-F  
 Limited quantity: 5 L

#### Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)

#### Other applicable information (marine transport)

: 274, 909, 944  
 E1

#### Air transport

UN/ID number: 3082  
 ICAO/IATA-DGR: 9  
 Hazard label: 9



ICAO packing group: III  
 Limited quantity Passenger: 30 kg G  
 IATA-packing instructions - Passenger: 914  
 IATA-max. quantity - Passenger: 450 L  
 IATA-packing instructions - Cargo: 914  
 IATA-max. quantity - Cargo: 450 L

#### Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A Epoxy Resin)

#### Other applicable information (air transport)

: Y914  
 : A97  
 E1  
 Special provisions: A97 A158

## 15. Regulatory information

#### Labelling

Danger symbols: Xi - Irritant; N - Dangerous for the environment

# Safety Data Sheet

according to Regulation (EU) No. 1907/2006

## Epoxy resin C

Print date: 12.02.2010

Product code: 120305-2010

Page 6 of 7



Xi - Irritant



N - Dangerous for the environment

### Hazardous components which must be listed on the label

Bisphenol A-epichlorohydrin resin mw<= 700

### R phrases

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

### S phrases

- |    |   |
|----|---|
| 28 | After contact with skin, wash immediately with plenty of .... (to be specified by the manufacturer) |
| 37 | Wear suitable gloves.   |
| 39 | Wear eye/face protection.   |
| 61 | Avoid release to the environment. Refer to special instructions / Safety data sheets.               |

### Special labelling for certain preparations

Contains epoxy constituents. See information supplied by the manufacturer.

### Additional advice on labelling

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

### National regulatory information

Water contaminating class (D): 2 - water contaminating

### Additional information

APME document: "Epoxidharze und Härter (Toxikologie, Arbeitssicherheit, Umwelt)" ("Epoxy resins and hardeners (toxicology, work safety, environment)")  
 BG code of practice: M023 ("Polyester and epoxy resins") (ZH 1/301)

## 16. Other information

### Full text of R-phrases referred to under sections 2 and 3

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

### Further Information

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processibility. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility.

**Safety Data Sheet**

according to Regulation (EU) No. 1907/2006

**Epoxy resin C**

Print date: 12.02.2010

Product code: 120305-2010

Page 7 of 7

Publication is not a licence and does not intend the violation of any patents.

---

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*