



# Safety Data Sheet

according to 2001/58/EC

## Epoxy resin L (100134-X, 100135-X)

Print date : 29.03.2007

Product code : 100134-X

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

#### Identification of the substance or preparation

Epoxy resin L (100134-X, 100135-X)

#### Use of the substance/preparation

Epoxy resin

#### Company/undertaking identification

Company name : R&G Faserverbundwerkstoffe GmbH  
Composite Technology  
Place : D-71111 Waldenbuch  
e-mail : info@r-g.de  
Internet : www.r-g.de  
Inquiry office : Management  
Emergency telephone : Poison emergency call

Telephone : +49-7157-530460  
Telefax : +49-7157-530470

### 2. Composition/information on ingredients

**Chemical characterization** ( preparation )  
Modifiziertes Epoxidharz

#### **Hazardous components**

EC-No.	CAS-No.	Chemical name	Quantity	Classification
500-033-5	25068-38-6	epoxy resin (number average molecular weight $\leq$ 700), reaction product: bisphenol-A-(epichlorhydrin)	> 50%	Xi, N R36/38-43-51-53
500-006-8	9003-36-5	epoxy resin (number average molecular weight $\leq$ 700), reaction product: bisphenol-F-(epichlorhydrin)	< 25%	Xi, N R36/38-43-51-53
240-260-4	16096-31-4	1,6-Hexandioldiglycidylether	< 25%	Xi R36-38-43-52-53

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

### 3. 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.

#### **Explication of special hazards for human health and environment**

The residue of epichlorohydrin corresponds to the recommendations of APME: modified epoxy resins < 10ppm (0,001%).

### 4. First aid measures

#### **General information**

Change contaminated clothing.

#### **After inhalation**



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Following inhalation: Move victim to fresh air. Consult physician. If victim is at risk of losing consciousness, position and transport on their side.

**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**

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. Subsequently consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Consult physician.

## 5. Fire-fighting measures

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>).  
Extinguishing powder.  
Water fog.  
Fight larger fires with water spray jet or alcohol-resistant foam.

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

High power water jet.

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

In case of fire may form: Carbon monoxide. Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Chlorhydric gas (HCl).

**Special protective equipment for fire-fighters**

Wear full protective suit. Wear self-contained breathing apparatus.

**Additional information**

Contaminated fire-fighting water must be collected separately. Contaminated fire-fighting water must not get into the sewerage network. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6. Accidental release measures

**Personal precautions**

Wear personal protection equipment. Keep unprotected persons away.

**Environmental precautions**

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

**Methods for cleaning up/taking up**

Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Dispose of contaminates material al waste according to item 13.

## 7. Handling and storage

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

Provide for sufficient ventilation and punctiform suction at critical points.

**Advice on protection against fire and explosion**

No special measures are necessary.

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

Prevent any penetration into to ground.



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### Further information on storage conditions

Store in cool, dry conditions in well sealed containers.

Storageclass (VCI) : 10

## 8. Exposure controls/personal protection

### Exposure limit values

#### Exposure controls

##### Protective and hygiene measures

Take off immediately all contaminated clothing. Avoid contact with skin and eye. Wash hands when done working with material; at breaks, lunch, shift changes, etc.

##### Respiratory protection

Not necessary if room is well-ventilated.

##### Hand protection

Protective gloves. (EN 374)

Material: NBR (Nitrile rubber). Butyl rubber.

Breakthrough time: See information supplied by the manufacturer.

##### Eye protection

Tightly sealed safety glasses. (EN 166)

##### Skin protection

Protective clothing. (EN 340)

## 9. Physical and chemical properties

### General information

Physical state : viscous, liquid

Colour : light yellow

Odour : typical

### Important health, safety and environmental information

Test method

#### Changes in the physical state

Boiling point : &gt; 200 °C DIN 53171

Flash point : &gt; 150 °C ISO 2719

Vapour pressure : &lt; 0,1 hPa

(at 20 °C)

Density (at 20 °C) : 1,14-1,16 g/cm<sup>3</sup> DIN 53217

Water solubility : not miscible / slightly soluble

Viscosity / dynamic : 630-770 mPa·s ISO 9371

(at 25 °C)

## 10. Stability and reactivity

### Conditions to avoid

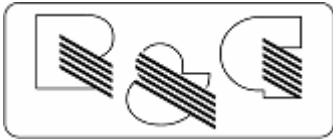
No decomposition if used and stored according to specifications.

### Hazardous decomposition products

Violent reaction with: Bases and numerous organic substances including alcohols and amines.

Exothermic polymerisation. Thermal decomposition can lead to the escape of irritating gases and vapors.

## 11. Toxicological information



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#### Specific effects in experiment on an animal

25068-38-6 Bisphenol A-epichlorohydrin resin mw<= 700  
oral: 11.400 mg/kg (rat) LD50  
dermal: >2.000 mg/kg (rabbit) LD50

#### Corrosive and irritant effects

Irritant eye, skin and mucous membranes.

#### Sensitising effects

Sensitization possible by skin contact.

## 12. Ecological information

#### Ecotoxicity

Bisphenol A-epichlorohydrin resin mw<= 700  
Oncorhynchus mykiss: LC50 (96h) 1,5-7,7 mg/l  
Daphnia magna: EC50 (24h) 1,1-3,6 mg/l  
Green algae: EC50 (96h) 220 mg/l

#### Persistence and degradability

Product is biodegradable with difficulty.

#### Further information

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

## 13. Disposal considerations

#### Advice on disposal

Dispose of waste according to applicable local, state, and federal regulations. E.g. convey to a suitable incinerator. The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process.

#### Contaminated packaging

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

## 14. Transport information

#### Land transport (ADR/RID)

ADR/RID class : 9  
Warning plate  
Hazard-no. : 90  
UN number : 3082  
Hazard label : 9  
ADR/RID packing group : III

#### Description of the goods

UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G.

#### Marine transport

IMDG code : 9  
UN number : 3082  
Marine pollutant : yes  
EmS : F-A, S-F  
IMDG packing group : III  
Hazard label : 9 + MP

#### Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

#### Air transport

ICAO/IATA-DGR : 9



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UN/ID number : 3082  
Hazard label : 9  
ICAO packing group : III

**Description of the goods**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxyde derivatives)

### 15. Regulatory information

**Labelling**

Danger symbols : Xi - Irritant; N - Dangerous for the environment  
Labelling according to EC-guidelines : The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

**Hazardous component(s) to be indicated on label**

Bisphenol A-epichlorohydrin resin mw<= 700  
Bisphenol F-epichlorohydrin resin mw<= 700  
1,6-Hexandioldiglycidylether

**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**

24 Avoid contact with skin.  
28 After contact with skin, wash immediately with plenty of Wasser und Seife.  
37 Wear suitable gloves.  
39 Wear eye/face protection.  
60 This material and its container must be disposed of as hazardous waste.  
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.

**National regulations**

Water contaminating class : 2 - water contaminating

**Additional information**

Document of APME: "Epoxy resins and curing agents (Toxicology, health, safety and environmental aspects)"

### 16. Other information

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

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

**Other data**



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