

# Safety Data Sheet

according to Regulation (EU) No. 1907/2006

## Epoxyd resin MP Advanced

Print date: 22.06.2010

Product code: 125156-X

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

#### Identification of the substance or preparation

Epoxyd resin MP Advanced

#### 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 : Harmful, Dangerous for the environment

R-phrases:

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Possible risks of irreversible effects.

### 3. Composition/information on ingredients

#### Chemical characterization ( Mixture )

#### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
249-204-3	28768-32-3	N,N,N',N'-Tetraglycid-4,4'-diaminodiphenylmethan	70 - 82 %	Xn, N R21/22-43-51-53-68
219-371-7	2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	18 - 30 %	Xn, Xi R20/21-36/38-43

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

### 4. First aid measures

#### After inhalation

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

#### After contact with skin

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

#### After contact with eyes

If the product comes into contact with the eyes, immediately rinse the open eyes with copious amounts of water for at least ten minutes. Afterwards consult an eye specialist. Immediately get medical attention.

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### After ingestion

Do not induce vomiting.

## 5. Fire-fighting measures

### Suitable extinguishing media

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

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

High power water jet.

### Special protective equipment for fire-fighters

Wear breathing apparatus without recirculating air and suitable protective clothing.

## 6. Accidental release measures

### Personal precautions

Avoid contact with skin, eyes, and clothing. Do not breathe in vapours.

### Environmental precautions

Do not empty into drains or the aquatic environment.

### 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

Keep away from ignition sources and naked flames. Provide adequate ventilation/vapour extraction at the workplace. Handle open container with care.

### Storage

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 8. Exposure controls/personal protection

### Exposure limit values

### Exposure controls

#### Protective and hygiene measures

Avoid contact with skin, eye and clothing.

#### Respiratory protection

Respiratory equipment for high concentrations.

#### Hand protection

Wear protective gloves.

#### Eye protection

Wear goggles.

## 9. Physical and chemical properties

### General information

Physical state:

liquid

Colour:

yellow

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### Important health, safety and environmental information

	Test method
pH-Value (at 20 °C):	6
<b>Changes in the physical state</b>	
Boiling point:	>200 °C
Thermische Zersetzung:	> 200 °C
Flash point:	170 °C DIN 51758
Vapour pressure: (at 20 °C)	< 0,2 Pa hPa
Water solubility: (at 20 °C)	praktisch unlöslich
Solubility in other solvents:	nicht mischbar mit Wasser
Viscosity / dynamic: (at 25 °C)	2300 - 3300 mPa·s

### 10. Stability and reactivity

#### Materials to avoid

strong acid and alkalis

### 11. Toxicological information

#### Acute toxicity

LD50: rat

Dosis: > 2000 mg/kg

#### Specific effects in experiment on an animal

rabbit Irritant effect on the eye, mild irritation to the skin (rabbit).

#### Sensitising effects

Contact may cause skin sensitisation. Guinea-pig.

### 12. Ecological information

#### 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

#### 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.

### 14. Transport information

#### Land transport (ADR/RID)

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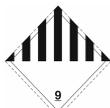
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UN number: 3082  
 ADR/RID class: 9  
 Classification code: M6  
 Warning plate  
 Hazard-no.: 90  
 Hazard label: 9



ADR/RID packing group: III

#### Description of the goods

Umweltgefährdender Stoff, flüssig, N.A.G.

#### Other applicable information (land transport)

enthält: Tetraglycidyl-Methylenedianiline

#### Marine transport

UN number: 3082  
 Hazard label: 9



IMDG packing group: III  
 EmS: F-A-S-F

#### Description of the goods

Umweltgefährdender Stoff, flüssig, N.A.G.

#### Other applicable information (marine transport)

enthält: Tetraglycidyl-Methylenedianiline

#### Air transport

UN/ID number: 3082  
 Hazard label: 9



ICAO packing group: III

IATA-packing instructions - Passenger: 999  
 IATA-max. quantity - Passenger: 999  
 IATA-packing instructions - Cargo: 999  
 IATA-max. quantity - Cargo: 999

#### Description of the goods

ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### Other applicable information (air transport)

TETRAGLYCIDYL-METHYLENEDIANILINE

### 15. Regulatory information

#### Labelling

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Danger symbols:

Xn - Harmful; N - Dangerous for the environment



Xn - Harmful



N - Dangerous for the environment

#### R phrases

- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 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.  
 68 Possible risks of irreversible effects.

#### S phrases

- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 28 After contact with skin, wash immediately with plenty of Wasser und Seife.  
 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.  
 37/39 Wear suitable gloves and eye/face protection.

#### Additional advice on labelling

Enthält epoxidhaltige Verbindungen. Heinweise des Herstellers beachten.

#### National regulatory information

Water contaminating class (D): 2 - water contaminating

### 16. Other information

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

- 20/21 Harmful by inhalation and in contact with skin.  
 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 21/22 Harmful in contact with skin and if swallowed.  
 36/38 Irritating to eyes and skin.  
 43 May cause sensitization by skin contact.  
 51 Toxic to aquatic organisms.  
 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 53 May cause long-term adverse effects in the aquatic environment.  
 68 Possible risks of irreversible effects.

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