

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Epoxyd resin MP Advanced**

Revision date: 06.08.2018

Product code: 125156-X

Page 1 of 7

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Epoxyd resin MP Advanced

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet**

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 (0)7157 5304-60	Telefax: +49 (0)7157 5304-70
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	

**1.4. Emergency telephone number:** Vergiftungs-Informations-Zentrale Freiburg  
Tel: +49 (0)761 19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Causes serious eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Tetraglycidyl methylenedianiline

1,4-Butandiol-diglycidylether

**Signal word:** Danger**Pictograms:****Hazard statements**

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Epoxyd resin MP Advanced**

Revision date: 06.08.2018

Product code: 125156-X

Page 2 of 7

present and easy to do. Continue rinsing.

**Additional advice on labelling**

Enthält epoxidhaltige Verbindungen. Heinweise des Herstellers beachten.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether			13 - 30 %
	219-371-7	603-072-00-7		
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H332 H312 H319 H315 H317			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection! First Aid for the person providing it can be dangerous to give mouth-to-mouth resuscitation.

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. If breathing is irregular or stopped give artificial respiration. First Aid for the person providing it can be dangerous to give mouth-to-mouth resuscitation. If unconscious place in recovery position and seek medical advice. In case of inhalation of decomposition products in symptoms may be delayed. The affected person may need to be kept under medical observation 48 hours.

**After contact with skin**

Call a physician immediately. Immediately call a POISON CENTER/doctor/?. Wash with plenty of soap and water. Remove contaminated, saturated clothing immediately. Chemical burns must be treated promptly by a physician. In the case of complaints or Symtomen avoid further impacts. Take off contaminated clothing and wash it before reuse. Clean shoes thoroughly before reuse.

**After contact with eyes**

Call a physician immediately. Immediately call a POISON CENTER/doctor/?. Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Remove person to fresh air and keep comfortable for breathing. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Seek immediate medical attention. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration into lungs. If possible, do not leave victim unattended. Do not introduce anything into the mouth of an unconscious person. If unconscious, storage and transport in stable lateral position

**4.2. Most important symptoms and effects, both acute and delayed**

Causes serious eye damage. Exposure to decomposition products may cause a health hazard. Causes skin irritation. May cause an allergic skin reaction.

Adverse symptoms may include:

Following eye contact: pain, lacrimation, redness

Following skin contact: pain, irritation, redness, Blistering may occur.

After ingestion: stomach pain

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Epoxyd resin MP Advanced

Revision date: 06.08.2018

Product code: 125156-X

Page 3 of 7

### 4.3. Indication of any immediate medical attention and special treatment needed

In case of inhalation of decomposition products in symptoms may be delayed. The affected person may need to be kept under medical observation 48 hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

#### **Unsuitable extinguishing media**

none known

### 5.3. Advice for firefighters

The danger areas must be delimited and identified using relevant warning and safety signs. Move victim out of the area. No action shall be taken involving any personal risk or without suitable training.

Fire-fighters should: Wear breathing apparatus without recirculating air and suitable protective clothing .

Fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic protection be chemical incidents.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unprotected persons at a safe distance. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protection equipment.

For emergency responders: Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify the responsible authority when the substance enters open water, the soil, or sewerage system. The containers from spill area. Collect spillage.

### 6.3. Methods and material for containment and cleaning up

Stop leak if safe to do so. Dilute with plenty of water. Wipe up with absorbent material (eg. cloth, fleece).

Delivery to an approved waste disposal company.

Prevent contamination of soil and water. Prevent from spreading or entering into drains. Contain escaping material with a nonflammable, absorbent substance (e.g. sand, soil, kieselguhr, vermiculite).

### 6.4. Reference to other sections

Personal protection equipment: see section 8

SECTION 13: Disposal considerations

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Use personal protection equipment. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Ensure adequate ventilation of the storage area. In case of inadequate ventilation wear respiratory protection. Keep only in the original container. Keep receptacles tightly sealed.

#### **Further information on handling**

When using do not eat, drink, smoke or sneeze. Wash hands with soap and water before eating and drinking

See Section 8, additional information on hygiene measures.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Recommended temperature for storage: 2 - 8°C (35.6 - 46.4°F). Keep only in the original container in a cool,

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Epoxyd resin MP Advanced**

Revision date: 06.08.2018

Product code: 125156-X

Page 4 of 7

well-ventilated place. Protect against the effects of heat and direct sunlight. Keep separate from other hazardous and incompatible substances. Keep away from food, drink and animal feedingstuffs. Keep locked up. Keep container tightly closed. Keep opened receptacles upright to prevent leakage. Use appropriate container to avoid environmental contamination.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****8.2. Exposure controls****Appropriate engineering controls**

Provide adequate ventilation/vapour extraction at the workplace.

**Protective and hygiene measures**

Wash hands and face before breaks and after work and take a shower if necessary. Contaminated work clothing should not be allowed out of the workplace.

**Eye/face protection**

Wear goggles.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

**Skin protection**

Use personal protection equipment.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: yellow

pH-Value (at 20 °C):

Test method  
6

**Changes in the physical state**

Initial boiling point and boiling range: >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

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

Stabile under the specified storage conditions.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Epoxyd resin MP Advanced**

Revision date: 06.08.2018

Product code: 125156-X

Page 5 of 7

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

strong acid and alkalis Strong oxidizing agents.

**10.6. Hazardous decomposition products**

No dangerous products of decomposition at a proper storage and handling.

Hazardous decomposition products: , ,

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

LD50: rat

Dosis: &gt; 2000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether				
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			

**Sensitising effects**

Contact may cause skin sensitisation. Guinea-pig.

**Specific effects in experiment on an animal**

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

**SECTION 12: Ecological information****12.2. 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.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****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; 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; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:** UN 3082

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Epoxyd resin MP Advanced

Revision date: 06.08.2018

Product code: 125156-X

Page 6 of 7

**14.2. UN proper shipping name:** Umweltgefährdender Stoff, flüssig, N.A.G.(Tetraglycidylmethylenedianiline)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Classification code: M6  
 Special Provisions: 274 335 601  
 Limited quantity: 5l  
 Hazard No: 90  
 Tunnel restriction code: E

**Other applicable information (land transport)**

enthält: Tetraglycidyl-Methylenedianiline

**Marine transport (IMDG)**

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** Umweltgefährdender Stoff, flüssig, N.A.G.(Tetraglycidylmethylenedianiline)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Marine pollutant: Ja  
 Limited quantity: 5l  
 EmS: F-A-S-F

**Other applicable information (marine transport)**

enthält: Tetraglycidyl-Methylenedianiline

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 3082

**14.2. UN proper shipping name:** ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tetraglycidyl methylenedianiline)

**14.3. Transport hazard class(es):** 9

**14.4. Packing group:** III

Hazard label: 9



Limited quantity Passenger: 5l  
 Passenger LQ: 450l  
 IATA-packing instructions - Passenger: 999  
 IATA-max. quantity - Passenger: 999  
 IATA-packing instructions - Cargo: 999  
 IATA-max. quantity - Cargo: 999

**Other applicable information (air transport)**

TETRAGLYCIDYL-METHYLENEDIANILINE

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Epoxyd resin MP Advanced**

Revision date: 06.08.2018

Product code: 125156-X

Page 7 of 7

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:       yes

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D):       2 - clearly water contaminating

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

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