

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Mould resin P

Revision date: 08.06.2018

Product code: 115160

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

Mould resin P

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:

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes serious eye irritation.

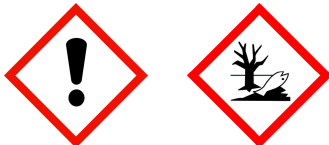
Causes skin irritation.

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**

reaction product: bisphenol-A-(epichlorhydrin), (number average molecular weight < 700),

Signal word: Warning**Pictograms:****Hazard statements**

| | |
|------|--|
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H411 | Toxic to aquatic life with long lasting effects. |

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Precautionary statements

P351 Rinse cautiously with water for several minutes.
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.
 P305 IF IN EYES:
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special labelling of certain mixtures

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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] | | | |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin), (number average molecular weight < 700), | | | 1 - < 50 % |
| | 500-033-5 | 603-074-00-8 | | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411 | | | |
| 9003-36-5 | epoxy resin (number average molecular weight ≤ 700), reaction product: bisphenol-F-(epichlorhydrin) | | | 1 - < 20 % |
| | 500-006-8 | 603-074-00-8 | 01-2119454392-40 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411 | | | |
| 16096-31-4 | 1,6-Bis(2,3-epoxypropoxy)hexane | | | 1 - < 10 % |
| | 240-260-4 | | 01-2119463471-41 | |
| | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412 | | | |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

never give an unconscious person things thru the mouth

After inhalation

Provide 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 plenty of water and soap. Consult physician if problems persist. Remove contaminated, saturated clothing immediately.

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 plenty of water. Consult physician.

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

SECTION 11: Toxicological information

SECTION 4: First aid measures

After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Water spray. Fight major fires with a water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: , toxic gases, Chlorhydric gas (HCl).

5.3. Advice for firefighters

Wear a protective full body suit. Wear breathing apparatus without recirculating air and suitable protective clothing.

Additional information

Fire residue and contaminated firefighting water must be disposed of in accordance with government regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the storage area. Avoid contact with skin. Avoid contact with eyes.

6.2. Environmental precautions

Contain escaping liquid with suitable material (e.g. soil).

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

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Dispose of contaminated material as § 13 waste.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate room ventilation, if necessary with vapour extraction at the workplace. Avoid contact with skin and eyes. When using do not eat, drink, smoke or sneeze.

Further information on handling

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

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

Further information on storage conditions

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

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

The usual precautions when handling chemicals must be observed.

after work and before breaks for thorough skin cleansing. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace.

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Eye/face protection

Protective goggles (EN 166)

Hand protection

Only chemicals - protective gloves with CE-labeling of category 3 use. (EN374)

Skin protection

Wear protective clothing.

Respiratory protection

Not necessary when the room is well ventilated.

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

| | |
|-----------------|---------------------|
| Physical state: | Liquid Paste |
| Colour: | black |
| Odour: | weak characteristic |

Test method**Changes in the physical state**

Flash point: > 150 °C

Vapour pressure:
(at 20 °C) <0,1 hPaDensity (at 20 °C): 1,26-1,34 g/cm³ DIN 53217

Water solubility: insoluble in water

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

The product has not been tested.

10.2. Chemical stability

Stable under the specified storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions at a correct storage and handling.

10.4. Conditions to avoidSECTION 7: Handling and storage
none known**10.5. Incompatible materials**SECTION 7: Handling and storage
Polymerisation : alkalis and numerous organic substance categories like alcohols and amines**10.6. Hazardous decomposition products**

no decomposition when stored and handled properly

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

oral LD50: 11400 mg/kg rat

LD50: >2000 mg/kg rabbit

ATEmix calculated

ATE (oral) 2000,0 mg/kg; ATE (dermal) 1270,0 mg/kg

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| CAS No | Chemical name | | | | | |
|------------|--|-------------------|---------|----------|--------|--|
| | Exposure route | Dose | Species | Source | Method | |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin), (number average molecular weight < 700), | | | | | |
| | oral | LD50 2000 mg/kg | Mouse | | | |
| | dermal | LD50 1270 mg/kg | Mouse | | | |
| 9003-36-5 | epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin) | | | | | |
| | oral | LD50 > 2000 mg/kg | Rat | | | |
| | dermal | LD50 > 2000 mg/kg | Rabbit | | | |
| 16096-31-4 | 1,6-Bis(2,3-epoxypropoxy)hexane | | | | | |
| | oral | LD50 3010 mg/kg | Rat | OECD 401 | | |
| | dermal | LD50 > 2000 mg/kg | Rat | OECD 402 | | |

Irritation and corrosivity

Irritation to skin, eyes, and mucous membranes.

Sensitising effects

May cause sensitization by inhalation and skin contact.

SECTION 12: Ecological information

12.1. Toxicity

| CAS No | Chemical name | | | | | | |
|------------|--|-------------------|-----------|-------------------------------------|----------|--------|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method | |
| 25068-38-6 | reaction product: bisphenol-A-(epichlorhydrin), (number average molecular weight < 700), | | | | | | |
| | Acute fish toxicity | LC50 1,3 mg/l | 96 h | | | | |
| | Acute algae toxicity | ErC50 220 mg/l | 96 h | Scenedesmus subspicatus | | | |
| | Acute crustacea toxicity | EC50 2,8 mg/l | 48 h | Daphnia magna (Big water flea) | | | |
| | Acute bacteria toxicity | (3,6 mg/l) | | Leuciscus idus (golden orfe) | | | |
| 9003-36-5 | epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin) | | | | | | |
| | Acute fish toxicity | LC50 2,54 mg/l | 96 h | | | | |
| 16096-31-4 | 1,6-Bis(2,3-epoxypropoxy)hexane | | | | | | |
| | Acute fish toxicity | LC50 30 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | OECD 203 | | |
| | Acute crustacea toxicity | EC50 39 - 57 mg/l | 48 h | Daphnia magna | OECD 202 | | |

12.2. Persistence and degradability

Biological degradation: Product is biodegradable with difficulty.

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| CAS No | Chemical name | | | |
|------------|--|-------|----|--------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 9003-36-5 | epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin) | | | |
| | OECD 301B | 16% | 28 | Manufacturer |
| | Not readily biodegradable (according to OECD criteria) | | | |
| 16096-31-4 | 1,6-Bis(2,3-epoxypropoxy)hexane | | | |
| | OECD 301D | 47% | 28 | Manufacturer |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|---------------------------------|------|---------|--------|
| 16096-31-4 | 1,6-Bis(2,3-epoxypropoxy)hexane | 3,57 | | |

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

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|--|
| 14.1. UN number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN) |
| 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: | 5 L |
| Transport category: | 3 |
| Hazard No: | 90 |
| Tunnel restriction code: | E |

Other applicable information (land transport)

E1

Inland waterways transport (ADN)

| | |
|--|--|
| 14.1. UN number: | UN 3082 |
| 14.2. UN proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN) |
| 14.3. Transport hazard class(es): | 9 |
| 14.4. Packing group: | III |
| Hazard label: | 9 |

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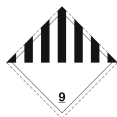
Classification code: M6
 Special Provisions: 274 335 601
 Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



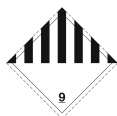
Marine pollutant: Ja
 Special Provisions: 274, 335
 Limited quantity: 5 L
 EmS: F-A, S-F

Other applicable information (marine transport)

E1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158
 Limited quantity Passenger: 30 kg G
 IATA-packing instructions - Passenger: 964
 IATA-max. quantity - Passenger: 450 L
 IATA-packing instructions - Cargo: 964
 IATA-max. quantity - Cargo: 450 L

Other applicable information (air transport)

E1

Passenger-LQ: Y964

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes



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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)**

| | |
|--------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH205 | Contains epoxy constituents. May produce an allergic reaction. |

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