

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Tool-cast Resin P

Print date: 30.08.2011

Product code: 115170-2011

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

#### Identification of the substance or mixture

Tool-cast Resin P

#### 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 and skin.

May cause sensitization by skin contact.

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

GHS: Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

### 3. Composition/information on ingredients

#### Chemical characterization ( Mixture )

#### Hazardous components

EC No.	CAS No.	Chemical name	Quantity
		Classification	
		GHS classification	
500-033-5	25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	100 %
		Xi, N R36/38-43-51-53	
		Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	

Full text of R- and H-phrases: see section 16.

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### 4. First aid measures

#### General information

Change contaminated clothing.

#### 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 soap and plenty of water. Consult physician if problems persist.

#### 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 major fires with a water spray jet or alcohol-resistant foam.

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

High power water jet.

#### Special exposure hazards arising from substance or mixture itself, combustion products, resulting gases

Carbon monoxide. Chlorhydric gas (HCl).

#### Special protective equipment for fire-fighters

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.

### 6. Accidental release measures

#### Personal precautions

Wear personal protection equipment. Keep unprotected persons at a safe distance.

#### Environmental precautions

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

#### Methods for cleaning up/taking up

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

### 7. Handling and storage

#### Handling

##### Advice on safe handling

Provide adequate room ventilation, if necessary with vapour extraction at the workplace.

#### Storage

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### 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.

Storageclass (D): 10

## 8. Exposure controls/personal protection

### Exposure limit values

### Exposure controls

## 9. Physical and chemical properties

### General information

Physical state: viscous  
Colour: black  
Odour: weak characteristic

### Important health, safety and environmental information

Test method

#### Changes in the physical state

Flash point: > 200 °C  
Vapour pressure: <0,1 hPa  
(at 20 °C)  
Density (at 20 °C): 1,3 g/cm<sup>3</sup>  
Water solubility: insoluble in water  
Viscosity / dynamic: ca. 10000 mPa·s  
(at 25 °C)

## 10. Stability and reactivity

### Hazardous decomposition products

Irritant gases / vapors

### Further information

in some cases very violent reactions with: alkalis and numerous organic substance categories like alcohols and amines

## 11. Toxicological information

### Acute toxicity

oral LD50: 11400 mg/kg rat  
LD50: >2000 mg/kg rabbit

### Irritation and corrosivity

Irritation to skin, eyes, and mucous membranes.

## 12. Ecological information

### Persistence and degradability

Biological degradation: Product is biodegradable with difficulty.

### Further information

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

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### 13. Disposal considerations

### 14. Transport information

#### Land transport (ADR/RID)

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



#### Description of the goods

3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG. N.A.G. (Epoxyidderivate)

#### Marine transport

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

#### Description of the goods

ENVIROMENTALLY HARZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

#### Air transport

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



ICAO packing group: II

#### Description of the goods

ENVIROMENTALLY HARZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxide derivatives)

### 15. Regulatory information

#### Labelling

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



Xi - Irritant



N - Dangerous for the environment

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### R phrases

- 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.

### S phrases

- 28 After contact with skin, wash immediately with plenty of water and soap. .  
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.  
37/39 Wear suitable gloves and eye/face protection.

### GHS labelling

Signal word:

Warning

Pictograms:

exclamation mark; environment



### Hazard statements

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

### Precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash ... thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P321 Specific treatment (see ... on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P363 Wash contaminated clothing before reuse.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.  
P501 Dispose of contents/container to ....

### 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

- 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.

### Full text of H-Statements referred to under sections 2 and 3

- H315 Causes skin irritation.

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

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