according to Regulation (EC) No. 1907/2006

# PUR hardener Desmodur 9804

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Product code: 170146-2011

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

# Identification of the substance or mixture

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### 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

Classificat	lion
	Indications of danger : Harmful R-phrases:
	Harmful by inhalation.
	Irritating to eyes, respiratory system and skin.
	Limited evidence of a carcinogenic effect.
	May cause sensitization by inhalation and skin contact.
	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
GHS:	Hazard categories:
	Acute toxicity: Acute Tox. 4
	Skin corrosion/irritation: Skin Irrit. 2
	Serious eye damage/eye irritation: Eye Irrit. 2
	Respiratory/skin sensitization: Resp. Sens. 1
	Respiratory/skin sensitization: Skin Sens. 1
	Carcinogenicity: Carc. 2
	Specific target organ toxicity - single exposure: STOT SE 3
	Specific target organ toxicity - repeated exposure: STOT RE 2
	Hazard Statements:
	Harmful if inhaled.
	Causes skin irritation.
	Causes serious eye irritation.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	May cause an allergic skin reaction.
	Suspected of causing cancer.
	May cause respiratory irritation.
	May cause damage to organs through prolonged or repeated exposure.

# 3. Composition/information on ingredients

# Chemical characterization (Mixture)

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### Hazardous components

EC No.	CAS No.	Chemical name	Quantity
		Classification	
		GHS classification	
202-966-0	101-68-8	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate	>= 50 %
		Carc. Cat. 3, Xn, Xi R40-20-48/20-36/37/38-42/43	
		Carc. 2, Acute Tox. 4, STOT RE 2, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Resp. Sens. 1, Skin Sens. 1; H351 H332 H373 ** H319 H335 H315 H334 H317	

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

# 4. First aid measures

#### **General information**

Take off immediately all contaminated clothing

#### After inhalation

In the case of inhalation of decomposition products, take the effected person into the fresh air and sit him quietly. Consult a doctor when there are visible signs of change on the skin or other complaints (if possible present the label or safety data sheet).

### After contact with skin

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

#### 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.

#### After ingestion

If swallowed, do not induce vomiting: seek medical advice immediately and show this container label.

## 5. Fire-fighting measures

# Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water fog.

## 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

Nitrogen oxides (NOx). Carbon monoxide. Hydrocyanic acid.

# Special protective equipment for fire-fighters

Wear a protective full body suit.

#### Additional information

Contaminated fire-fighting water must be collected separately. Contaminated fire-fighting water must not get into the sewerage network.

# 6. Accidental release measures

#### Personal precautions

Wear personal protection equipment. Guide people to safety.

### **Environmental precautions**

Do not empty into drains or the aquatic environment.

# Methods for cleaning up/taking up

Collect mechanically.

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### 7. Handling and storage

# Handling

#### Advice on safe handling

Handle open container with care. Wear respiratory equipment when transferring large quantities without vapour extraction. Provide adequate room ventilation, if necessary with vapour extraction at the workplace.

# Storage

### Further information on storage conditions

Protect against the effects of heat and direct sunlight.

#### 8. Exposure controls/personal protection

#### **Exposure limit values**

#### Exposure controls

#### Protective and hygiene measures

The usual precautionary measures for handling chemicals should be followed. Keep away from food, beverages and feed. Remove contaminated clothing immediately. Wash hands before breaks and after work. Store protective clothing. Avoid contact with eyes and skin. When using do not eat, drink, smoke or take drugs. Use barrier skin cream.

#### **Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment. Filter type AX-P2 (organic vapors, particles)

#### Hand protection

Material of gloves for long term application (BTT> 480 min): Butyl rubber, Ethylvinylalkholollaminat (EVAL), nitrile rubber, neoprene rubber, polyvinyl chloride (PVC). Material of gloves for short-term use / Pritzer (10 min <BTT <480 min): Butyl rubber, Ethylcinylalkohollaminat (EVAL), nitrile rubber, polyvinyl chloride (PVC). There are in accordance with accepted standards such as for example EN 374 (Europe), F739 (U.S.) tested gloves are used. The suitability and durability of a glove is dependent on the use, eg the contact frequency and duration, the skill. Let us advise you always have the gloves. Additional information can for example be found under www.gisbau.de

#### Eye protection

Wear goggles. face protection

#### Skin protection

Wear protective clothing.

### 9. Physical and chemical properties

#### General information

Water solubility:

Physical state:liquidColour:brownOdour:product-specific

# Important health, safety and environmental information

# Changes in the physical state Flash point: Density (at 20 °C):

100 °C 1,12 bis 1,14 g/cm<sup>3</sup> insoluble Test method

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177 mPa·s

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Viscosity / dynamic: (at 25 °C)

# 10. Stability and reactivity

#### Materials to avoid

in some cases very violent reactions with: Water.

#### 11. Toxicological information

#### Acute toxicity

Acute toxicity, oral rat LD50: > 2000 mg/kg Acute toxicity, inhalant rat LC50: 370 mg/m3 4h

### 12. Ecological information

#### Ecotoxicity

Acute fish toxicity Brachydanio rerio > 1000 mg/l 96h Acute Daphnia toxicity Daphnia magna EC50: > 1000 mg/l 24h Bacterial toxicity: EC50: > 100 mg/l 3h

#### 13. Disposal considerations

### Advice on disposal

Dispose of as hazardous waste. Waste key numbers are assigned according to the European Waste Catalogue (EWC) depending on the sector and process type.

#### **Contaminated packaging**

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning. Uncontaminated packaging can be recycled.

## 14. Transport information

### Land transport (ADR/RID)

# Other applicable information (land transport)

Not restricted

## Marine transport

Other applicable information (marine transport) Not restricted

# <u>Air transport</u>

Other applicable information (air transport) Not restricted

# 15. Regulatory information

### Labelling

Danger symbols:

Xn - Harmful



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R phrases				
-	Harmful by inhalation.			
	Irritating to eyes, respiratory system and skin.			
	Limited evidence of a carcinogenic effect.			
42/43	May cause sensitization by inhalation and skin contact.			
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.			
S phrases				
	Do not breathe Do not breath vapour			
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).			
	Wear suitable protective clothing and gloves.			
GHS labelling				
Signal word:	Danger			
Pictograms:	exclamation mark; health hazard			
<b></b>				
Hazard statements				
H332	Harmful if inhaled.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H317 H351	May cause an allergic skin reaction.			
H351 H335	Suspected of causing cancer.			
H335 H373	May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.			
Precautionary stat				
P101	If medical advice is needed, have product container or label at hand.			
P102	Keep out of reach of children.			
P201	Obtain special instructions before use.			
P202	Do not handle until all safety precautions have been read and understood.			
P260	Do not breathe dust/fume/gas/mist/vapours/spray.			
P264	Wash thoroughly after handling.			
P271 P272	Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace.			
P272 P280				
P280 P285	Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.			
P205 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.			
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for			
1 30111 010	breathing.			
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.			
P305+P351+P				
1 000 11 001 11	present and easy to do. Continue rinsing.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P308+P313	IF exposed or concerned: Get medical advice/attention.			

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P403+P233 P405	Store locked up.			
P501	Dispose of contents/container to			
Special labelling	g of certain mixtures			
Cor	ntains epoxy constituents. May produce an allergic reaction.			
National regulatory	<u>information</u>			
Water contamina	ating class (D): 1 - slightly water contaminating			
16. Other informa	ition			
Full text of R-nh	nrases referred to under sections 2 and 3			
20	Harmful by inhalation.			
36/37/38	Irritating to eyes, respiratory system and skin.			
40	Limited evidence of a carcinogenic effect.			
42/43	May cause sensitization by inhalation and skin contact.			
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.			
Full text of H-St	atements referred to under sections 2 and 3			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.			
H335	May cause respiratory irritation.			
H351	Suspected of causing cancer.			
H373	May cause damage to organs through prolonged or repeated exposure.			

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