

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**PUR Hardener (1000)**

Revision date: 01.06.2018

Product code: 170105

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

PUR Hardener (1000)  
 CAS No: 9016-87-9  
 Index No: 615-005-01-6

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Di-/Poly-Isocyanat component for the production of polyurethane

**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-Informationen-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:  
 Carcinogenicity: Carc. 2  
 Hazard Statements:  
 Suspected of causing cancer.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****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 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer by inhalation.  
 H335 May cause respiratory irritation.  
 H373 May cause damage to organs (durch Einatmen) through prolonged or repeated exposure.

**Precautionary statements**

P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P302+P352 IF ON SKIN: Wash with plenty of water.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.

**Additional advice on labelling**

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

**SECTION 3: Composition/information on ingredients****3.1. Substances****Chemical characterization**

Diphenylmethandiisocyanat, Isomere und Homologe

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
9016-87-9	(OLD)			100 %
	-	615-005-01-6		
	Carc. 2; H351			

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

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

Remove contaminated, saturated clothing immediately.

**After inhalation**

Following inhalation: Move victim to fresh air. Consult physician.

**After contact with skin**

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. If skin irritation occurs.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**After ingestion**

Call a physician immediately. Do NOT induce vomiting. Keep the patient calm.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam.  
 Carbon dioxide (CO<sub>2</sub>).  
 Extinguishing powder.  
 Fight a major fire with water spray jet.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

At fire carbon dioxide, carbon monoxide, nitric oxides and traces of cyanogen hydrogen (prussic acid) arise.  
 Not breathing in explosion and fire gasses.

**5.3. Advice for firefighters**

Wear breathing apparatus with own air supply.

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### Additional information

Contaminated fire-fighting water must not get into the sewerage network.  
Cool affected receptacles with water.

## SECTION 6: Accidental release measures

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

Personal protection equipment: see section 8. Ensure adequate ventilation in the workplace. Keep unprotected persons at a safe distance.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter groundwater. Notify the responsible authority when the substance enters open water, the soil, or sewerage system.

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

After about one hour collect in waste receptacles, but do not seal these (CO<sub>2</sub> formation). Keep moist and leave at a secure outdoor location for several days.

### 6.4. Reference to other sections

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

This product must not be handled by persons with allergies, asthma, persistent or chronic breathing problems, or chronic diseases of the respiratory tract. Provide adequate ventilation/vapour extraction at the workplace. Wear respiratory equipment when transferring large quantities without vapour extraction. Not useable after freezing.

#### Further information on handling

The iso cyanate aerosols and/or steams in higher concentrations can arise (e. g. decompression, form ventilation, blowby of mixed heads with compressed air), an exceeding the arbeitshygenischen limiting values must be prevented by air suction at works or facilities parts to. The air movement must be carried out of the persons away. The effectiveness of the plants must be checked in regular distances.

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

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

#### Requirements for storage rooms and vessels

Keep container tightly closed and dry.

#### Advice on storage compatibility

Store separately from foodstuffs.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

#### Protective and hygiene measures

Provide adequate ventilation.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Wear protective gloves.

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CR (polychloroprenes, Chloroprene rubber). glove thickness:  $\geq 0,50\text{mm}$  Breakthrough time:  $\geq 480\text{min}$   
 NBR (Nitrile rubber). glove thickness:  $\geq 0,35\text{mm}$  Breakthrough time:  $\geq 480\text{min}$   
 Butyl rubber. glove thickness:  $\geq 0,50\text{mm}$  Breakthrough time:  $\geq 480\text{min}$   
 FKM (Fluoroelastomer). glove thickness:  $\geq 0,40\text{mm}$  Breakthrough time:  $\geq 480\text{min}$   
 PVC (Polyvinyl chloride). glove thickness:  $\geq 0,50\text{mm}$  Breakthrough time:  $\geq 480\text{min}$   
 Use gloves only once.

**Skin protection**

Wear protective clothing.

**Respiratory protection**

When risk of spraying: respiratory equipment with own air supply.

In well ventilated rooms filter equipment with combination filter: particle/gas filter (A2-P2)

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

Physical state:	liquid
Colour:	brown
Odour:	earthy

**Changes in the physical state**

Flash point:	$> 250\text{ }^{\circ}\text{C}$
Vapour pressure: (at $20\text{ }^{\circ}\text{C}$ )	1 hPa
Density (at $20\text{ }^{\circ}\text{C}$ ):	1,24 g/cm <sup>3</sup>
Water solubility:	insoluble

**SECTION 10: Stability and reactivity****10.2. Chemical stability**From  $200\text{ }^{\circ}\text{C}$  polymerization, CO<sub>2</sub> capture**10.5. Incompatible materials**

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**10.6. Hazardous decomposition products**

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

**Further information**

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**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Irritation and corrosivity**

No information available.

**Sensitising effects**

No information available.

**Carcinogenic/mutagenic/toxic effects for reproduction**

No information available.

**STOT-single exposure**

No information available.

**STOT-repeated exposure**

No information available.

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**Aspiration hazard**

No information available.

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

No information available.

**Practical experience****Observations relevant to classification**

No information available.

**Other observations**

No information available.

**Further information**

No information available.

**SECTION 12: Ecological information****12.1. Toxicity**

No information available.

**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****Advice on disposal**

Dispose of waste according to applicable legislation. e.g. transfer to a suitable incineration plant Waste key numbers are assigned according to the European Waste Catalogue (EWC) depending on the sector and process type.

**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

**Waste disposal number of contaminated packaging**

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

**Contaminated packaging**

Dispose of waste according to applicable legislation. Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.2. UN proper shipping name:**

National und International: No dangerous good in sense of these transport regulations.

**Other applicable information (land transport)**

Not restricted

**Marine transport (IMDG)**

Marine pollutant: no

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**Other applicable information (marine transport)**

Not restricted

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

Not restricted

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

Contains isocyanates. See information supplied by the manufacturer.

**National regulatory information**

Water contaminating class (D): 1 - slightly 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.
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 by inhalation.
H351	Suspected of causing cancer.
H373	May cause damage to organs (durch Einatmen) through prolonged or repeated exposure.

**Further Information**

All information, recommendations, and advice on the part of R&G Faserverbundwerkstoffe GmbH are published to the best of our knowledge and belief. They are noncommittal and contain neither explicit nor tacit assurance or warranty of particular properties. The values specified for properties are typical figures. Recommendations or advice serve to describe our products and possible applications in a general or exemplary, but not specifically individual manner. In the course of the constant technical advancement and improvement of our products there may be changes to the characteristic values, copy, and diagrams; no specific reference is made to any such change. Owing to our products' wide and highly diverse range of potential applications far beyond any of our attempts to analyse, the customer alone is responsible for examining our products' suitability for the respective processes and purposes and their respective processibility. All and any protective rights and the applicable laws, terms, and conditions must be observed by the buyer or user of our products at their own responsibility. Publication is not a licence and does not intend the violation of any patents.