

**Safety Data Sheet**

according to UK REACH Regulation

**Chopped carbon fibre strands 3, 6 and 12 mm**

Revision date: 07.05.2024

Product code: 21013

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

Chopped carbon fibre strands 3, 6 and 12 mm

Substance name: Carbon  
CAS No: 7440-44-0  
EC No: 231-153-3

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

Filler

**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  
Contact person: Michael Groß  
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****2.2. Label elements****Additional advice on labelling**

not classified as dangerous under the hazardous substances laws (GefStoffV)/EC Directives

**2.3. Other hazards**

Hazard warnings for humans:

Electrically conductive - possible release of fine particles. Fine released fibre particles can irritate skin, eyes, and mucous membranes - diseases so far unknown to us.

Hazard warnings for the environment:

Product is considered environmentally friendly, but possible electrical short-circuit due to release.

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

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7440-44-0	Carbon			? 94 %
	231-153-3			

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



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### Further Information

Other components: Epoxy resin or polyether resin = 1.8 %

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Remove affected person to open air - consult doctor.

#### After contact with skin

Clean affected skin areas with tap water and soap.

#### After contact with eyes

Remove lenses if necessary - Rinse eyes with water for at least 15 minutes - Consult a doctor.

#### After ingestion

Consult physician.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Common extinguishing products appropriate for neighbouring fires are permitted.

#### Unsuitable extinguishing media

Avoid full jet.

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

Non flammable.

Danger of formation of toxic pyrolysis products.

### 5.3. Advice for firefighters

Wear breathing apparatus with own air supply.

## SECTION 6: Accidental release measures

### 6.2. Environmental precautions

Prevent spread.

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

#### For cleaning up

Suitable suction method due to risk of fibre dispersion. Protective clothing and dust mask recommended.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid dispersion of volatile fibres - Work in well-ventilated rooms (ventilation systems with filters to prevent exposure to free air). (ventilation systems with filters to prevent exposure of the released fibres to the open air), where electrical equipment is not located or is located in sealed or protected pressurised boxes - insulating varnishes can be applied to electronic and connection terminals.

#### Further information on handling

Avoid release of volatile particles due to friction.

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

#### Requirements for storage rooms and vessels

Recommended packaging material: Only non-abrasive material, avoid rubbing the bags together.

#### Further information on storage conditions

Storage conditions do not affect the hazard, but it is recommended to store the product in a dry, clean dust-free



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place in the original packaging.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7440-44-0	Graphite, respirable	-	4		TWA (8 h)	WEL

#### Additional advice on limit values

Control parameters:

See local regulations. VME for total dust: 10 mg/m<sup>3</sup>. Long-term exposure for carbon fibres: 0.5 mg/m<sup>3</sup> or 0.5 RFP/ml (respirable fibre particles).

### 8.2. Exposure controls

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Wear suitable gloves. Suitable gloves (type: surgical or cotton).

##### Skin protection

A skin protection cream can be useful Wash hands and face before eating, drinking or smoking.

##### Respiratory protection

Suitable dust mask (filter device FFP2 or FFP3).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	black
Odour:	odourless
Melting point/freezing point:	> 2760 °C °C
Solubility in other solvents	
Insoluble fibres - Ensimgestuff soluble in solvents with chlorine, acetone, DMF.	

### 9.2. Other information

Density (monofilament): 1.6 to 2.0 g/cm<sup>3</sup>Apparent density (short fibres): 0.1 to 0.5 kg/dm<sup>3</sup> depending on cutting, chopping or grinding; depending on length and Ensimage.

## SECTION 10: Stability and reactivity

### 10.3. Possibility of hazardous reactions

reaction with strong oxidising agents

Danger of dust explosion.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.



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**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Further information**

Carbon fibres and dust may cause mechanical irritation to eyes, skin, nose and throat.

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

Based on available data, the classification criteria are not met.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Further information**

Effects not known - stable environmentally friendly agent.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Bury in appropriate locations according to country and local regulations - do not incinerate - incineration may cause dispersion of carbon fibre particles and thus damage electrical equipment.

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

The product is not a dangerous good in national and international road, rail, sea and air transport.

**Inland waterways transport (ADN)****14.2. UN proper shipping name:**

The product is not a dangerous good in national and international road, rail, sea and air transport.

**Marine transport (IMDG)****14.2. UN proper shipping name:**

The product is not a dangerous good in national and international road, rail, sea and air transport.



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

##### 14.2. UN proper shipping name:

The product is not a dangerous good in national and international road, rail, sea and air transport.

#### Other applicable information

The product is not a dangerous good in national and international road, rail, sea and air transport.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National regulatory information

##### Additional information

These products are not submitted to Regulations (EC) No. 1272/2008 (CLP), 67/548/EEC, nor No. 1999/45/EC. This safety data sheet has been prepared in accordance with REACH Regulation (EC) No 1907/2006 and No. 453/2010.

### SECTION 16: Other information

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