

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

carbon fabrics, tapes, braided sleeves, rovings, yarns, chopped strands

Print date: 22.08.2011

Product code: 190220-2010

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

Identification of the substance or mixture

carbon fabrics, tapes, braided sleeves, rovings, yarns, chopped strands

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

Explication of special hazards for human health and environment

no potential risks

3. Composition/information on ingredients

Chemical characterization (Mixture)

organic/inorganic pigment paste for colouring epoxy resins

Hazardous components

EC No.	CAS No.	Chemical name	Quantity	Classification
231-153-3	7440-44-0	Carbon	> 95%	
500-033-5	25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	0,1 - 1%	Xi, N R36/38-43-51-53

Full text of each relevant R phrase can be found in heading 16.

4. First aid measures

General information

Change contaminated clothing.

After inhalation

Bring the patient out into the fresh air. Consult a doctor when complaints persist.

After contact with skin

After contact with skin, wash immediately with soap and plenty of water. If skin becomes irritated, seek medical treatment.

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.

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After ingestion

Rinse mouth with water. Consult physician immediately.

5. Fire-fighting measures

Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO₂).

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

The thermal decomposition of the substance can give rise to compounds of unknown formulation.
Carbon monoxide. hydrocarbons.

Special protective equipment for fire-fighters

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

Methods for cleaning up/taking up

Absorb with sand, soil, or another absorbent substance. Collect in suitable receptacles. Wash off contaminated area with water.

7. Handling and storage

Handling

Advice on safe handling

adherence to the general industrial rules and regulations and hygiene provisions for the prevention of risks

Advice on protection against fire and explosion

Keep away from ignition sources and naked flames. Dust explosive.

Storage

Requirements for storage rooms and vessels

Store in a dry place free of frost. Do not subject to excessive heat.
Storage temperature: < 50°C
Relative room humidity: < 85%

8. Exposure controls/personal protection

Exposure limit values

Exposure limits (EH40)

CAS No.	Chemical name	ml/m ³	mg/m ³	F/ml	Category	Origin
7440-44-0	Graphite, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

unknown

Exposure controls

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Protective and hygiene measures

Wear protective clothing.

9. Physical and chemical properties

General information

Physical state: solid
Colour: black
Odour: odourless

Important health, safety and environmental information

Test method

Changes in the physical state

Melting point: 3.500 °C
Flash point: > 100 °C
Density (at 20 °C): 1,7 - 2,0 g/cm³
Water solubility: insoluble

10. Stability and reactivity

Conditions to avoid

reaction with strong oxidising agents Danger of dust explosion.

Materials to avoid

unknown

Hazardous decomposition products

The thermal decomposition of the substance can give rise to compounds of unknown formulation.

11. Toxicological information

Irritation and corrosivity

Fiber abrasion can cause mechanical skin irritation.

12. Ecological information

Ecotoxicity

unknown

Further information

Do not empty into drains.

13. Disposal considerations

Advice on disposal

Remove according to the regulations.

Waste disposal number of waste from residues/unused products

160306 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes other than those mentioned in 16 03 05

14. Transport information

Land transport (ADR/RID)

ADR/RID class: Not a hazardous material with respect to transportation regulations.

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Inland waterways transport

Not a hazardous material with respect to transportation regulations.

Marine transport

IMDG code:

Not a hazardous material with respect to transportation regulations.

Air transport

ICAO/IATA-DGR:

Not a hazardous material with respect to transportation regulations.

Other applicable information

postal dispatch without restriction

15. Regulatory information

Labelling

Additional advice on labelling

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

not applicable

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. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

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.

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