

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

Revision date: 29.03.2018

Product code: 190220-2010

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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

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

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-Informations-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:

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

epoxy resin (number average molecular weight \leq 700), reaction product: bisphenol-A-(epichlorhydrin)

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

Additional advice on labelling

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

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Chemical characterization

organic/inorganic pigment paste for colouring epoxy resins

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7440-44-0	Carbon			> 95%
	231-153-3			
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)			0,1 - 1%
	500-033-5	603-074-00-8		
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H315 H317 H411			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated clothing.

After inhalation

Remove to fresh air Consult a doctor when complaints persist.

After contact with skin

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

After ingestion

Rinse mouth thoroughly with water. Seek medical advice immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Passenger-LQ

Carbon monoxide hydrocarbons.

5.3. Advice for firefighters

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.

SECTION 6: Accidental release measures

6.3. Methods and material for containment and cleaning up

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

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SECTION 7: Handling and storage**7.1. Precautions for safe 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.

7.2. Conditions for safe storage, including any incompatibilities**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%

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7440-44-0	Graphite, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

unknown

8.2. Exposure controls**Protective and hygiene measures**

Wear protective clothing.

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

Physical state: solid
 Colour: black
 Odour: odourless

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

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

reaction with strong oxidising agents Danger of dust explosion.

10.5. Incompatible materials

unknown

10.6. Hazardous decomposition products

Passenger-LQ

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)				
	oral	LD50 11400 mg/kg	Rat	GESTIS	
	dermal	LD50 > 22800 mg/kg	Rabbit	GESTIS	

Irritation and corrosivity

Fiber abrasion can cause mechanical skin irritation.

SECTION 12: Ecological information

12.1. Toxicity

unknown

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)					
	Acute fish toxicity	LC50 4,4 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	EPA-660/3-75-009	
	Acute algae toxicity	ErC50 9,4 mg/l	72 h	Scenedesmus capricornutum	EPA-660/3-75-009	
	Acute crustacea toxicity	EC50 2,8 mg/l	48 h	Daphnia magna	OECD 202	
	Acute bacteria toxicity	(> 100 mg/l)	3 h	Activated sludge		

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)				
	OECD 301F	5%	28	Manufacturer	
	Not readily biodegradable (according to OECD criteria)				
	OECD 301B	6-12%	28	Manufacturer	
	Not readily biodegradable (according to OECD criteria)				

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	3,24

BCF

CAS No	Chemical name	BCF	Species	Source
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	31		Quantitative structure-activity relationship (QSAR)

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Further information

Do not empty into drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

Marine transport (IMDG)

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.3. Transport hazard class(es): No dangerous good in sense of these transport regulations.

Other applicable information

postal dispatch without restriction

SECTION 15: Regulatory information

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

National regulatory information

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

Additional information

not applicable

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.
H411	Toxic to aquatic life with long lasting effects.

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

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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.)