

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

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

Revision date: 28.01.2020

Product code: 190220-2010

Page 1 of 5

**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

**Further trade names**

Aksaca, Torayca, Pyrofil, HexTow, Tenax, Zotek Panex, Tairyfil, Dialead, Granoc

Dieses Produkt ist eine Erzeugnis gemäß REACH-Verordnung. Es besteht KEINE Pflicht zur Erstellung eines Sicherheitsdatenblatts!

This product is an article under REACH regulation. There is NO obligation to prepare a safety data sheet!

**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 Statements:

May cause an allergic skin reaction.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700)**Hazard statements**

H317 May cause an allergic skin reaction.

**Precautionary statements**

P280 Wear protective gloves.

**Special labelling of certain mixtures**EUH208 Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\geq$  700).. May produce an allergic reaction.**Additional advice on labelling**

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

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

# Safety Data Sheet

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Revision date: 28.01.2020

Product code: 190220-2010

Page 2 of 5

### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7440-44-0	Carbon			> 95%
	231-153-3			
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			0,1 - 1%
	500-033-5	603-074-00-8		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 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. In case of skin irritation, seek medical treatment.

#### After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

#### After ingestion

not applicable

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

High power water jet.

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

Carbon monoxide

### 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 contaminated area with water.

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Revision date: 28.01.2020

Product code: 190220-2010

Page 3 of 5

**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: &lt; 50°C

Relative room humidity: &lt; 85%

**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**

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  
 Density (at 23 °C): 1,7 - 2,0 g/cm<sup>3</sup>  
 Water solubility: insoluble

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

Danger of dust explosion.

**10.5. Incompatible materials**

unknown

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

## Safety Data Sheet

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

Revision date: 28.01.2020

Product code: 190220-2010

Page 4 of 5

#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)				
	oral	LD50 mg/kg	11400	Rat	GESTIS
	dermal	LD50 mg/kg	> 22800	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	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)					
	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	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
	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	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	3,24

##### BCF

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

#### Further information

Do not empty into drains.

### SECTION 13: Disposal considerations

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Page 5 of 5

**13.1. Waste treatment methods****Disposal recommendations**

Remove according to the regulations.

**List of Wastes Code - residues/unused products**

160304 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes other than those mentioned in 16 03 03

**List of Wastes Code - contaminated packaging**

150101 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); paper and cardboard packaging

**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.  
 EUH208 Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\geq$  700).. May produce an allergic reaction.

**Further Information**

Avoid contact with the eyes and skin.

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