

**Safety Data Sheet**

according to UK REACH Regulation

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

Revision date: 25.01.2024

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

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	
Contact person:	Michael Groß	
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****GB CLP Regulation**

Hazard Statements:

May cause an allergic skin reaction.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)**Hazard statements**

H317 May cause an allergic skin reaction.

Precautionary statements

P280 Wear protective gloves.

Special labelling of certain mixturesEUH208 Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≥ 700).. May produce an allergic reaction.**Additional advice on labelling**

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

2.3. Other hazards

Limited quantity:

SECTION 3: Composition/information on ingredients

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3.2. Mixtures**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
25068-38-6	500-033-5	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	0,1 - 1%
	dermal: LD50 = > 22800 mg/kg; oral: LD50 = 11400 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100		

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 (CO₂).**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.

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Additional information

No sensitizing effect known.

SECTION 6: Accidental release measures**6.3. Methods and material for containment and cleaning up****Other information**

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

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.

Advice on general occupational hygiene

Wear protective clothing.

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

Additional advice on limit values

unknown

8.2. Exposure controls**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:	3.500 °C
Water solubility:	insoluble
Density (at 23 °C):	1,7 - 2,0 g/cm ³

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

Danger of dust explosion.

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10.5. Incompatible materials

unknown

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****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

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 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	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	(EC50 > 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

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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)

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

Do not empty into drains.

SECTION 13: Disposal considerations**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****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

National regulatory information

Water hazard class (D):

1 - slightly hazardous to water

Additional information

not applicable

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SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1.

Abbreviations and acronyms

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

Aquatic Chronic: Chronic aquatic hazard

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 ≥ 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.)