

Safety Data Sheet

according to UK REACH Regulation

SIGRAPREG 245g

Revision date: 26.08.2021

Product code: CS-245120-T-PP

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

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

Semi-finished product for the manufacture of CFRP components.

Uses advised against

-

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH

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

Contact person: Michael Groß

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****GB CLP Regulation**

Hazard Statements:

Causes skin irritation.

Causes eye irritation.

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**GB CLP Regulation**

Signal word:

Warning

Pictograms:

**Hazard statements**

H315

Causes skin irritation.

H320

Causes eye irritation.

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements

P391

Collect spillage.

P362+P364

Take off contaminated clothing and wash it before reuse.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

P302+P352

IF ON SKIN: Wash with plenty of water.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P273

Avoid release to the environment.

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

2.3. Other hazards

Danger of cutaneous absorption.

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

Modified epoxy resin in B-stage on aramid, carbon or glass fabric.

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Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	25 - < 30 %
	500-033-5	603-074-00-8
	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
25036-25-3	Reaction product: Bisphenol A - Epichlorhydrin Epoxy resin MG 700 -1200	10 - < 15 %
	607-500-3	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
150-68-5	monuron (ISO); 3-(4-chlorophenyl)-1,1-dimethylurea	< 1 %
	205-766-1	006-042-00-6
	Carc. 2, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1; H351 H302 H400 H410	
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether	< 1 %
	219-371-7	603-072-00-7
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H332 H312 H315 H319 H317	

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)	25 - < 30 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 30000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100	
150-68-5	205-766-1	monuron (ISO); 3-(4-chlorophenyl)-1,1-dimethylurea	< 1 %
		oral: ATE = 500 mg/kg	
2425-79-8	219-371-7	1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg	

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Change contaminated clothing. If breathing is irregular or stopped give artificial respiration.

After inhalation

Provide fresh air. In case of troubles or persistent symptoms, consult an ophthalmologist.

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

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Call a physician in any case!

4.2. Most important symptoms and effects, both acute and delayed

none

4.3. Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO2). Extinguishing powder Water spray Alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Special hazards arising from the substance itself, its products of combustion or resulting gases: Carbon dioxide (CO2). Carbon monoxide Nitrogen oxides (NOx). Hydrogen chloride (HCl). Pyrolysis products, toxic.

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5.3. Advice for firefighters

Special hazards arising from the substance itself, its products of combustion or resulting gases: Carbon dioxide (CO₂). Carbon monoxide Nitrogen oxides (NO_x). Hydrogen chloride (HCl). Pyrolysis products, toxic.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation.

6.2. Environmental precautions

No special environmental protection measures are required. Do not allow to enter the ground/soil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

none

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

Ensure adequate ventilation of the storage area.

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Ensure adequate ventilation of the storage area.

Further information on storage conditions

Protect against: heat. Light.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)			
Consumer DNEL, long-term		inhalation	systemic	0,75 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,75 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	12,3 mg/m ³
Worker DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	12,3 mg/m ³
Consumer DNEL, acute		dermal	systemic	3,6 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	0,75 mg/m ³
Consumer DNEL, acute		oral	systemic	0,75 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,6 mg/kg bw/day

PNEC values

CAS No	Substance	Value
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	
Freshwater		0,003 mg/l
Marine water		0,0003 mg/l
Marine water (intermittent releases)		0,013 mg/l
Freshwater sediment		0,5 mg/kg
Marine sediment		0,5 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,05 mg/kg

8.2. Exposure controls

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Appropriate engineering controls

no restriction.

Eye/face protection

Tightly sealed safety glasses. (DIN EN 166)

Hand protection

Butyl rubber. 120min (EN ISO 374)

Skin protection

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Respiratory protection is not required when used properly and under normal conditions.

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

Physical state:	semi-solid
Colour:	not relevant
Odour:	neutral

Changes in the physical state

Melting point/freezing point:	<23 °C
Curing temperature of the prepreg:	>80 °C
Decomposition temperature:	> 300 - 350°C (in air) °C
Density (at 20 °C):	1.45 - 1.65 g/cm ³

9.2. Other information

Decomposition temperature: > 300 - 350°C (in air)

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition when used as intended.

10.2. Chemical stability

No decomposition when used as intended.

10.3. Possibility of hazardous reactions

Reaction: Oxidising agents. Alkalis (lyes) Pickles and acids Amines. Exothermic polymerisation.

10.4. Conditions to avoid

This material is flammable and can be ignited by heat, sparks, flames or other sources of ignition (e.g. static electricity, pilot lights, mechanical/electrical equipment).

10.5. Incompatible materials

Oxidising agent.
Pickling and acids.
Alkalis (alkalis).

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapors.

Further information

No hazardous reaction when handled and stored according to provisions.

Keep cool. (< 8°C)

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

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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	30000	rat	
	dermal	LD50 mg/kg	> 2000	Daphnia magna	
150-68-5	monuron (ISO); 3-(4-chlorophenyl)-1,1-dimethylurea				
	oral	ATE	500 mg/kg		
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane; butanedioldiglycidyl ether				
	dermal	ATE mg/kg	1100		
	inhalation vapour	ATE	11 mg/l		
	inhalation aerosol	ATE	1,5 mg/l		

Carcinogenic/mutagenic/toxic effects for reproduction

Toxic effects during handling are not known.

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

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	1,3 mg/l	96 h	Oncorhynchus mykiss	OECD 203
	Acute algae toxicity	ErC50	> 11 mg/l	72 h		
	Acute crustacea toxicity	EC50	2,1 mg/l	48 h	Daphnia magna	OECD 202
	Crustacea toxicity	NOEC	0,3 mg/l	21 d	Daphnia magna	OECD 211

12.2. Persistence and degradability

The product is hardly biodegradable.

12.3. Bioaccumulative potential

not determined

12.4. Mobility in soil

not determined

12.5. Results of PBT and vPvB assessment

not determined

Further information

Negative ecological effects are not known.

Do not allow to enter into soil/subsoil.

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

Remove according to the regulations.

List of Wastes Code - residues/unused products

040209 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES; wastes from the textile industry; wastes from composite materials (impregnated textile, elastomer, plastomer)

List of Wastes Code - used product

070213 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; waste plastic

List of Wastes Code - contaminated packaging

040209 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES; wastes from the textile industry; wastes from composite materials (impregnated textile, elastomer, plastomer)

Contaminated packaging

Packing which cannot be properly cleaned must be thrown away.

Cleaned containers may be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

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14.2. UN proper shipping name: No dangerous good in sense of these transport regulations.**Inland waterways transport (ADN)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Marine transport (IMDG)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**Air transport (ICAO-TI/IATA-DGR)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

none

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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