



Safety Data Sheet

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 1 of 11

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

1.1. Product identifier

EP-Gelcoat colourless

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

Use of the substance/mixture

Epoxy resin

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-Informationen-Zentrale Freiburg
Tel: +49 (0)761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

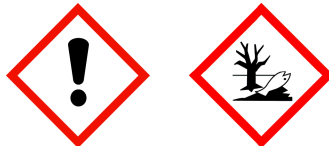
GB CLP Regulation

Hazard components for labelling

bis-[4-(2,3-epoxypropoxy)phenyl]propane
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
1,6-Hexanediol, reaction products with epichlorohydrin

Signal word: Warning

Pictograms:



Hazard statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.



Safety Data Sheet

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 2 of 11

Precautionary statements

P314	Get medical advice/attention if you feel unwell.
P280	Wear protective gloves and eye/face protection.
P273	Avoid release to the environment.
P260	Do not breathe mist/vapours/spray.

Additional advice on labelling

The product is classified and labelled under the EC Directives/hazardous substances laws (GefStoffV).

2.3. Other hazards

The mixture does not contain a vPvB substance (vPvB = very persistent, very bioaccumulative) or does not fall under Annex XIII of Regulation (EC) 1907/2006. Regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or does not fall under Annex XIII of Regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any substance with endocrine-disrupting properties (< 0.1 %).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Epoxy resin

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-{{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane			40-<75 %
	701-263-0		01-2119454392-40	
	Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H317 H411			
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			3-<25 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
933999-84-9	1,6-Hexanediol, reaction products with epichlorohydrin			15 - < 20 %
	618-939-5		01-2119463471-41	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H315 H319 H317 H412			
1317-95-9	Siliciumdioxid			0 %

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			
	701-263-0	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-{{2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	40-<75 %	
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			
1675-54-3	216-823-5	bis-[4-(2,3-epoxipropoxy)phenyl]propane	3-<25 %	
	dermal: LD50 = 23000 mg/kg; oral: LD50 = 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100			
933999-84-9	618-939-5	1,6-Hexanediol, reaction products with epichlorohydrin	15 - < 20 %	
	dermal: LD50 = 2000 mg/kg; oral: LD50 = 2190 mg/kg			



Safety Data Sheet

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 3 of 11

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated clothing. never give an unconscious person things thru the mouth

After inhalation

Following inhalation: Move victim to fresh air. Consult physician. If victim is at risk of losing consciousness, position and transport on their side.

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

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Consult physician.

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

Eyes, reddened. Tearing of the eyes. Reddening of the skin. Allergic reaction.

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

Provide symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂).
Extinguishing powder.
Water spray.
Fight major fires with a water spray jet or alcohol-resistant foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Under certain conditions traces of toxic substances cannot be ruled out, e.g.: Chlorhydric gas (HCl).

5.3. Advice for firefighters

Wear a protective full body suit. Wear breathing apparatus with own air supply.

Additional information

Contaminated fire-fighting water must be collected separately. Contaminated fire-fighting water must not get into the sewerage network. No sensitizing effect known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Ensure adequate ventilation of the storage area.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter the soil or subsoil.

6.3. Methods and material for containment and cleaning up

Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Formation of



Safety Data Sheet

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 4 of 11

toxic gases is possible during heating or in case of fire.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. When using do not eat, drink, smoke or take drugs.

Advice on protection against fire and explosion

No special measures are necessary.

Advice on general occupational hygiene

Take off immediately all contaminated clothing. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. Wash hands before breaks and after work.

Further information on handling

Observe the general hygiene measures when handling chemical substances. Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Take off contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a place accessible by authorized persons only. Store in a cool dry place. Employ reliable measures to prevent the product from entering the soil.

Further information on storage conditions

Keep in well sealed receptacles at a cool, dry location.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 5 of 11

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
DNEL type		Exposure route	Effect	Value
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane			
Worker DNEL, long-term		dermal	systemic	104,15 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	29,39 mg/m ³
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane			
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
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
933999-84-9	1,6-Hexanediol, reaction products with epichlorohydrin			
Worker DNEL, acute		dermal	local	22,6 mg/cm ²
Worker DNEL, long-term		dermal	local	22,6 mg/cm ²
Worker DNEL, long-term		dermal	systemic	2,8 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term		inhalation	local	0,44 mg/m ³

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 6 of 11

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane	
Freshwater		0,003 mg/l
Freshwater (intermittent releases)		0,025 mg/l
Marine water		0 mg/l
Freshwater sediment		0,294 mg/kg
Marine sediment		0,029 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,237 mg/kg
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane	
Freshwater		0,006 mg/l
Marine water		0,0003 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
933999-84-9	1,6-Hexanediol, reaction products with epichlorohydrin	
Freshwater		0,0115 mg/l
Marine water		0,00115 mg/l
Marine water (intermittent releases)		0,0283 mg/kg
Freshwater sediment		0,283 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		0,223 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation/vapour extraction at the workplace. When thresholds are exceeded approved respiratory equipment must be worn.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Tightly sealed safety glasses. (EN 166)

Hand protection

Wear protective gloves. (EN 374)

Material: NBR (Nitrile rubber). Butyl rubber.

penetration time (maximum wearing period): See information supplied by the manufacturer.

Skin protection

Wear protective clothing. (EN 340)

Respiratory protection

Not necessary when the room is well ventilated.

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

Physical state:

Paste, liquid

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 7 of 11

Colour: cloudy
Odour: weak, characteristic

Test method

Flash point: > 150 °C ISO 2719
Auto-ignition temperature: > 140 °C DIN 51794
Water solubility: not miscible / slightly soluble
Vapour pressure: < 0,1 hPa
(at 20 °C)
Density (at 25 °C): 1,16-1,18 g/cm³ DIN 53217

9.2. Other information**Information with regard to physical hazard classes**

Self-ignition temperature 140 °C

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

The product has not been tested.

10.2. Chemical stability

Stable when stored and handled properly.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

no decomposition when stored and handled properly

10.5. Incompatible materials

amines.
alkalines.
Acids.
Oxidising agent.

10.6. Hazardous decomposition products

Violent reaction with: alkalis and numerous organic substance categories like alcohols and amines
polymerisation under the action of heat Thermal decomposition can lead to the escape of irritating gases and vapors.

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

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 8 of 11

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl]oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane				
	oral	LD50 > 5000 mg/kg	Rat	Manufacturer	
	dermal	LD50 > 2000 mg/kg	Rat	Manufacturer	
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane				
	oral	LD50 15000 mg/kg	Rat	Manufacturer	
	dermal	LD50 23000 mg/kg	Rabbit	Manufacturer	
933999-84-9	1,6-Hexanediol, reaction products with epichlorohydrin				
	oral	LD50 2190 mg/kg	rat		
	dermal	LD50 2000 mg/kg	rabbit		

Irritation and corrosivity

Irritation to skin, eyes, and mucous membranes.

Sensitising effects

Contact may cause skin sensitisation.

Specific effects in experiment on an animal

LD/LC50: 25068-38-6 Bisphenol A-epichlorohydrin resin mw<= 700

oral: 11.400 mg/kg (rat) LD50

dermal: >2.000 mg/kg (rabbit) LD50

11.2. Information on other hazards**Endocrine disrupting properties**

Does not apply to mixtures.

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

Bisphenol A-epichlorohydrin resin mw<= 700

Oncorhynchus mykiss: LC50 (96h) 1,5-7,7 mg/l

Daphnia magna: EC50 (24h) 1,1-3,6 mg/l

Green algae: EC50 (96h) 220 mg/l

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 9 of 11

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane					
	Acute fish toxicity	LC50 mg/l	2,54	96 h	Leuciscus idus (golden orfe)	Manufacturer
	Acute algae toxicity	ErC50	1,8 mg/l	72 h	Selenastrum capricornutum	Manufacturer
	Acute crustacea toxicity	EC50 mg/l	2,55	48 h	Daphnia magna (Big water flea)	Manufacturer
1675-54-3	bis-[4-(2,3-epoxipropoxy)phenyl]propane					
	Acute fish toxicity	LC50	2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	Manufacturer
	Acute crustacea toxicity	EC50	1,8 mg/l	48 h	Daphnia magna (Big water flea)	Manufacturer
933999-84-9	1,6-Hexanediol, reaction products with epichlorohydrin					
	Acute fish toxicity	LC50	30 mg/l	96 h	fish	
	Acute algae toxicity	ErC50	11 mg/l	72 h	algae	
	Acute crustacea toxicity	EC50	1,8 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

Product is biodegradable with difficulty.

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 let the product enter the groundwater, open water, or the sewerage system.

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

Dispose of waste according to applicable legislation. e.g. transfer to a suitable incineration plant Waste key numbers are assigned according to the European Waste Catalogue (EWC) depending on the sector and process type.

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(EPOXY RESIN)**14.3. Transport hazard class(es):**

9

14.4. Packing group:

III

Hazard label:

9

**Safety Data Sheet**

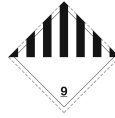
in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 10 of 11



Classification code: M6
Special Provisions: 274 335 601
Limited quantity: 5 L
Excepted quantity: E 1
Transport category: 3
Hazard No: 90
Tunnel restriction code: E

Other applicable information (land transport)

: 274 - 601
: 3
: E

Marine transport (IMDG)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Marine pollutant: yes
Special Provisions: 274, 335
Limited quantity: 5 L
Excepted quantity: E 1
EmS: F-A, S-F

Other applicable information (marine transport)

: 274, 909, 944

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Special Provisions: A97 A158
Limited quantity Passenger: 30 kg G
Excepted quantity: E 1
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

Other applicable information (air transport)

Passenger-LQ: Y964
: Y914
: A97

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907/2006

EP-Gelcoat colourless

Revision date: 03.04.2024

Product code: 120135-X

Page 11 of 11

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

**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 3, Entry 75

2004/42/EC (VOC): < 0,6%

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 2.

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.

H412 Harmful to aquatic life with long lasting effects.

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.)