

according to Regulation (EC) No. 1907/2006

5-min.-epoxy, resin (155.XXXX)

Print date: 30.08.2011

Product code: 155.XXXX

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1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

5-min.-epoxy, resin (155.XXXX)

Use of the substance/mixture

epoxy resin systems

Company/undertaking identification

Company name:	Suter Kunststoffe AG	
	Composite Technology	
Street:	Aefligenstrasse 3	
Place:	CH-3312 Fraubrunnen	
Post-office box:	.	
	.	
Telephone:	+41-31 763 60 60	Telefax: +41-31 763 60 61
e-mail:	info@swiss-composite.ch	
Internet:	www.swiss-composite.ch	
Responsible Department:	Management	
Emergency telephone:	poison information centre 145	

2. Hazards identification

Classification

Indications of danger : Irritant, Dangerous for the environment

R-phrases:

Irritating to eyes.

Irritating to skin.

May cause sensitization by skin contact.

Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

GHS: Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory/skin sensitization: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

Explication of special hazards for human health and environment

The residual content of epichlorohydrin complies with the APME recommendations for modified epoxy resins. < 5ppm (0,0005%).

3. Composition/information on ingredients

Chemical characterization (Mixture)

Modifiziertes Epoxidharz

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Hazardous components

EC No.	CAS No.	Chemical name	Quantity
		Classification	
		GHS classification	
500-033-5	25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	> 50%
		Xi, N R36/38-43-51-53	
		Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	
500-006-8	9003-36-5	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-F-(epichlorhydrin)	25-50%
		Xi, N R36/38-43-51-53	
		Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411	

Full text of R- and H-phrases: see section 16.

4. First aid measures**General information**

Change contaminated clothing.

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 soap and plenty of water. If skin becomes irritated, 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 large quantities of water. Consult physician.

5. Fire-fighting measures**Suitable extinguishing media**Carbon dioxide (CO₂).
Extinguishing powder.
Water fog.
Fight major fires with a water spray jet or alcohol-resistant foam.**Extinguishing media which must not be used for safety reasons**

High power water jet.

Special exposure hazards arising from substance or mixture itself, combustion products, resulting gases

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

Special protective equipment for fire-fighters

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. Fire residue and contaminated firefighting water must be disposed of in accordance with government regulations.

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6. Accidental release measures

Personal precautions

Wear personal protection equipment. Keep unprotected persons at a safe distance.

Environmental precautions

Do not empty into drains or the aquatic environment. Do not allow to enter the soil or subsoil.

Methods for cleaning up/taking up

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

Dispose of contaminated material as § 13 waste.

7. Handling and storage

Handling

Advice on safe handling

Provide for sufficient ventilation and punctiform suction at critical points.

Advice on protection against fire and explosion

No special measures are necessary.

Storage

Requirements for storage rooms and vessels

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.

Storageclass (D): 10

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing Avoid contact with skin and eyes. Wash hands before breaks and after work.

Respiratory protection

Not necessary when the room is well ventilated.

Hand protection

Wear protective gloves. (EN 374)

Material: NBR (Nitrile rubber). Butyl rubber.

Breakthrough time: See information supplied by the manufacturer.

Eye protection

Tightly sealed safety glasses. (EN 166)

Skin protection

Wear protective clothing. (EN 340)

9. Physical and chemical properties

General information

Physical state:	viscous, liquid
Colour:	light yellow
Odour:	weak, characteristic

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Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point:	> 200 °C	DIN 53171
Flash point:	> 150 °C	ISO 2719
Vapour pressure: (at 20 °C)	< 0,1 hPa	
Density (at 20 °C):	1,16-1,18 g/cm ³	DIN 53217
Water solubility:	not miscible / slightly soluble	
Viscosity / dynamic: (at 25 °C)	6.800 - 8.800 mPa·s	ISO 9371

Other information

Ignition temperature:	460 °C	DIN 51794
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10. Stability and reactivity**Conditions to avoid**

no decomposition when stored and handled properly

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.

11. Toxicological information**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
LD/LC50: 9003-36-5 Bisphenol F-epichlorohydrin resin mw<= 700
oral: 23.800 mg/kg (rat) LD50
dermal: >2.000 mg/kg (rabbit) LD50

Irritation and corrosivity

Irritation to skin, eyes, and mucous membranes.

Sensitizing effects

Contact may cause skin sensitisation.

12. Ecological information**Ecotoxicity**

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

Persistence and degradability

Product is biodegradable with difficulty.

Further information

Do not let the product enter the groundwater, open water, or the sewerage system.

13. Disposal considerations

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Advice on disposal

Dispose of waste according to applicable local, state, and federal regulations. 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 local, state, and federal regulations.

14. Transport information**Land transport (ADR/RID)**

UN number: 3082
ADR/RID class: 9
Classification code: M6
Warning plate
Hazard-no.: 90
Hazard label: 9



ADR/RID packing group: III
Limited quantity: LQ7
Tunnel restriction code: E

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxidharz MG < 700)

Other applicable information (land transport)

Special provisions: 274 335 601
E1
: 3

Marine transport

UN number: 3082
IMDG code: 9
Marine pollutant: •
Hazard label: 9



IMDG packing group: III
EmS: F-A, S-F
Limited quantity: 5 L

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

Other applicable information (marine transport)

Special provisions: 274, 909, 944
E1

Air transport

UN/ID number: 3082

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ICAO/IATA-DGR: 9

Hazard label: 9



ICAO packing group: III

Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 914

IATA-max. quantity - Passenger: 450 L

IATA-packing instructions - Cargo: 914

IATA-max. quantity - Cargo: 450 L

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxy resin)

Other applicable information (air transport)

E1

: Y914

Special provisions: A97 A158

15. Regulatory information**Labelling**

Danger symbols:

Xi - Irritant; N - Dangerous for the environment



Xi - Irritant



N - Dangerous for the environment

Hazardous components which must be listed on the label

Bisphenol A-epichlorohydrin resin mw<= 700

Bisphenol F-epichlorohydrin resin mw<= 700

R phrases

- 36 Irritating to eyes.
- 38 Irritating to skin.
- 43 May cause sensitization by skin contact.
- 51 Toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

S phrases

- 24 Avoid contact with skin.
- 28 After contact with skin, wash immediately with plenty of Wasser und Seife.
- 37 Wear suitable gloves.
- 39 Wear eye/face protection.
- 61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Special labelling of certain mixtures

Contains epoxy constituents. See information supplied by the manufacturer.

Additional advice on labelling

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

GHS labelling

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Signal word:

Pictograms:

Warning

exclamation mark; environment

**Hazard statements**

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

Precautionary statements

- | | |
|----------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash ... thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P321 | Specific treatment (see ... on this label). |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P391 | Collect spillage. |
| P501 | Dispose of contents/container to |

National regulatory information

Water contaminating class (D): 2 - water contaminating

Additional information

APME document: "Epoxidharze und Härter (Toxikologie, Arbeitssicherheit, Umwelt)" ("Epoxy resins and hardeners (toxicology, work safety, environment)")

BG code of practice: M023 ("Polyester and epoxy resins") (ZH 1/301)

16. Other information**Full text of R-phrases referred to under sections 2 and 3**

- | | |
|-------|---|
| 36 | Irritating to eyes. |
| 36/38 | Irritating to eyes and skin. |
| 38 | Irritating to skin. |
| 43 | May cause sensitization by skin contact. |
| 51 | Toxic to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |

Full text of H-Statements referred to under sections 2 and 3

- | | |
|------|--|
| H315 | Causes skin irritation. |
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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 processability. 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 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.)