

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 1 of 7

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

Identification of the substance or mixture

Epoxy Resin L

Company/undertaking identification

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:	+49-7157-530460	Telefax: +49-7157-530470
e-mail:	info@r-g.de	
Internet:	www.r-g.de	
Responsible Department:	Management	
Emergency telephone:	poison information centre	

2. Hazards identification

Classification

Indications of danger : Irritant, Dangerous for the environment

R-phrases:

Irritating to eyes and 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.

3. Composition/information on ingredients

Chemical characterization (Mixture)

Epoxidharzformulierung auf Basis von Bisphenol A-Flüssigharz und Bisphenol F-Flüssigharz

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 2 of 7

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 - 100 %
		Xi, N R36/38-43-51-53	
		Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H315 H317 H411	
	16096-31-4	Hexandioldiglycidylether	10 - 25 %
		Xi R36/38-43-52-53	
	55492-52-9	Bisphenol-F-Epoxy resin	10 - 25 %
		Xi, N R36/38-43-51-53	

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

4. First aid measures

General information

Take off immediately all contaminated clothing

After contact with skin

After contact with skin, wash immediately with: water and soap.

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

Immediately get medical attention.

Advice to doctor

No special measures are necessary. Provide symptomatic treatment.

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 protective equipment for fire-fighters

In case of fire and/or explosion do not breathe fumes. Use appropriate respiratory protection.

Additional information

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

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 3 of 7

Methods for cleaning up/taking up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.

7. Handling and storage

Handling

Advice on safe handling

Keep receptacles tightly sealed. Provide adequate room ventilation, if necessary with vapour extraction at the workplace.

Storage

Requirements for storage rooms and vessels

Keep only in the original container. Provide for retaining containers, eg. floor pan without outflow.

Advice on storage compatibility

Store separately from foodstuffs.

Further information on storage conditions

Keep receptacles tightly sealed.

8. Exposure controls/personal protection

Exposure limit values

Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Respiratory protection

Bei unzureichender Belüftung Atemschutz

Hand protection

Nur Chemikalien-Schutzhandschuhe mit einer CE-Kennzeichnung der Kategorie III verwenden. Zur Minimierung der Nässe im Handschuh durch Schweißbildung ist ein Wechseln der Handschuhe während einer Schicht erforderlich. Vor jeder erneuten Verwendung des Handschuhs ist die Dichtheit zu prüfen.

Nitrilkautschuk oder Fluorkautschuk oder Handschuhe aus PVC. Empfohlene Materialstärke $\geq 0,5$ mm

Eye protection

Dichtschießende Schutzbrille

Skin protection

Arbeitsschutzkleidung

9. Physical and chemical properties

General information

Physical state:

Colour:

Odour: weak characteristic

Important health, safety and environmental information

Test method

Changes in the physical state

Boiling point:

200 °C

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 4 of 7

Flash point:	> 150 °C
Vapour pressure: (at 20 °C)	0,1 hPa
Density (at 23 °C):	1,15 g/cm ³ ISO 2811
Water solubility:	not miscible
Viscosity / dynamic: (at 25 °C)	700 mPa·s

10. Stability and reactivity

Conditions to avoid

no decomposition when stored and handled properly

11. Toxicological information

Irritation and corrosivity

Irritation to skin, eyes, and mucous membranes.

Sensitising effects

May cause sensitization by skin contact.

12. Ecological information

Persistence and degradability

Product is biodegradable with difficulty.

Bioaccumulative potential

bioaccumulation improbable

Other adverse effects

Toxic for Fish.

Further information

Do not let the product enter the groundwater, open water, or the sewerage system. May cause long-term damaging effects in open waters.

13. Disposal considerations

Waste disposal number of waste from residues/unused products

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

Waste disposal number of used product

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

Contaminated packaging

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

14. Transport information

Land transport (ADR/RID)

UN number: UN3082

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 5 of 7

ADR/RID class: 9
Classification code: M6
Warning plate
Hazard No: 90
Hazard label: 9



ADR/RID packing group: III
Limited quantity: 5 L
Tunnel restriction code: E

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin MW <700, bisphenol F epoxy resin)

Other applicable information (land transport)

Special provisions: 274 335 601
E1
: 3

Marine transport

UN number: UN3082
IMDG code: 9
Marine pollutant: yes
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 MW <700, bisphenol F epoxy resin)

Other applicable information (marine transport)

Special provisions: 274, 909, 944
E1

Air transport

UN/ID number: UN3082
ICAO/IATA-DGR: 9
Hazard label: 9



ICAO packing group: III
Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 6 of 7

IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin MW <700, bisphenol F epoxy resin)

Other applicable information (air transport)

E1
: Y914
Special provisions: A97 A158
: Y964

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

epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)
Bisphenol-F-Epoxy resin
Hexandioldiglycidylether

R phrases

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

S phrases

24 Avoid contact with skin.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
28 After contact with skin, wash immediately with plenty of Water. .
57 Use appropriate containment to avoid environmental contamination.
60 This material and its container must be disposed of as hazardous waste.
37/39 Wear suitable gloves and eye/face protection.

Special labelling of certain mixtures

Contains epoxy constituents. See information supplied by the manufacturer.

GHS labelling

Signal word: Warning
Pictograms: exclamation mark; environment



Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Epoxy Resin L

Print date: 20.04.2012

Product code: 100133-2012-GHS

Page 7 of 7

H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
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.

Special labelling of certain mixtures

Contains epoxy constituents. May produce an allergic reaction.

National regulatory information

Water contaminating class (D): 2 - water contaminating

16. Other information

Full text of R-phrases referred to under sections 2 and 3

36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
51 Toxic to aquatic organisms.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
52 Harmful 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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic 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.)