

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

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

1.1 Product identifier

Trade name : Biresin® CR174 Resin (A)

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

At present there is no complete information available on identified uses. When the data becomes available, it will be integrated into the safety data sheet.

Product use : Composites system.

1.3 Details of the supplier of the safety data sheet

Company : Sika Deutschland GmbH
Kornwestheimer Str. 103-107
70439 Stuttgart
Telephone : +4971180090
E-mail address : EHS@de.sika.com

1.4 Emergency telephone number

Emergency telephone number : 0173-6774799 Out of office hours only
EHS@de.sika.com

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product : Mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity , Category 4	H302: Harmful if swallowed.
Skin irritation , Category 2	H315: Causes skin irritation.
Eye irritation , Category 2	H319: Causes serious eye irritation.
Skin sensitisation , Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity , Category 2	H351: Suspected of causing cancer.
Chronic aquatic toxicity , Category 2	H411: Toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Harmful	R21/22: Harmful in contact with skin and if swallowed.
Carcinogenic Category 3	R40: Limited evidence of a carcinogenic effect.
Sensitising	R43: May cause sensitisation by skin contact.
Irritant	R36/38: Irritating to eyes and skin.

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Warning

Hazard statements

: H302 H315 H317 H319 H351 H411	Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Toxic to aquatic life with long lasting effects.
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Precautionary statements

: Prevention: P201 P261 P273 P280	Obtain special instructions before use. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection.
Response: P308 + P313 P333 + P313	IF exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention.

Hazardous components which must be listed on the label:

- 249-204-3 4,4'-methylenebis[N,N-bis(2,3-epoxypropyl)aniline]
- 222-384-0 1-(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]butane
- 500-033-5 reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)

Additional Labelling:

Contains epoxy constituents. May produce an allergic reaction.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
4,4'-methylenebis[N,N-bis(2,3-epoxypropyl)aniline] 28768-32-3 249-204-3	Xn; R21/22 R43 Carc.Cat.3; R40 N; R51/53	Acute Tox.4; H302 Acute Tox.4; H312 Skin Sens.1; H317 Carc.2; H351 Aquatic Chronic2; H411	>= 25 - < 50
1-(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]butane 3454-29-3 222-384-0	Xi; R36/38 R43 R52/53	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317 Aquatic Chronic3; H412	>= 25 - < 50
reaction product: bisphenol-A- (epichlorhydrin) and epoxy resin (num- ber average molecular weight <= 700) 25068-38-6 500-033-5 01-2119456619-26-XXXX	Xi; R36/38 R43 N; R51/53	Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 20 - < 25

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
Consult a physician after significant exposure.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Gastrointestinal discomfort Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed information on health effects and symptoms.
Risks	: irritant effects sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Deny access to unprotected persons.
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6.2 Environmental precautions

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform
respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,
acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist. Avoid exceeding of the
given occupational exposure limits (see section 8). Do not get
in eyes, on skin, or on clothing. For personal protection see
section 8. Persons with a history of skin sensitisation prob-
lems or asthma, allergies, chronic or recurrent respiratory
disease should not be employed in any process in which this
mixture is being used. Smoking, eating and drinking should be
prohibited in the application area. Follow standard hygiene
measures when handling chemical products

Advice on protection against : Normal measures for preventive fire protection.
fire and explosion

Hygiene measures : Handle in accordance with good industrial hygiene and safety
practice. When using do not eat or drink. When using do not
smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep container tightly closed in a dry and well-ventilated
areas and containers place. Containers which are opened must be carefully re-
sealed and kept upright to prevent leakage. Store in accord-
ance with local regulations.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

- Eye protection : Safety glasses with side-shields
Eye wash bottle with pure water
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
- Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (0,4 mm),
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.
- Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.
- Respiratory protection : No special measures required.

Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : brown
- Odour : characteristic
- Odour Threshold : No data available
- Flash point : > 101 °C

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

Ignition temperature	: not applicable
Lower explosion limit (Vol%)	: No data available
Upper explosion limit (Vol%)	: No data available
Flammability (solid, gas)	: No data available
Oxidizing properties	: No data available
Auto-ignition temperature	: No data available
pH	: Note: not applicable
Melting point/range / Freezing point	: No data available
Boiling point/boiling range	: No data available
Vapour pressure	: No data available
Density	: ca. 1,14 g/cm ³ at 20 °C
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, dynamic	: ca. 3.800 mPa.s at 20 °C
Viscosity, kinematic	: > 20,5 mm ² /s at 40 °C
Relative vapour density	: No data available
Evaporation rate	: No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight ≤ 700) :

Acute oral toxicity : LD50 Oral rat: > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal rabbit: > 20.000 mg/kg

Skin corrosion/irritation

Product

Causes skin irritation.

Serious eye damage/eye irritation

Product

Causes serious eye irritation.

Respiratory or skin sensitisation

Product

May cause an allergic skin reaction.

Germ cell mutagenicity

Product

Mutagenicity : No data available

Carcinogenicity

Product

Carcinogenicity : Suspected of causing cancer.

Reproductive Toxicity/Fertility

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

Reproductive toxicity : No data available

No data available

Reproductive Toxicity/Development/Teratogenicity

Teratogenicity : No data available

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with the EWC Waste Regulation the classification of waste is to be assigned to the jurisdiction of the origin

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

of waste. Therefore, it is not possible to assign a particular waste identification number.
Completely emptied packagings may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor. Sika has agreed disposal contracts for all packaging which is brought into circulation in Germany.
For further details see www.sika.de

SECTION 14: Transport information

ADR

- 14.1 UN number : 3082
- 14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)
- 14.3 Class : 9
- 14.4 Packing group : III
- Classification Code : M6
- Labels : 9
- Tunnel restriction code : (E)
- 14.5 Environmentally hazardous : yes

IATA

- 14.1 UN number : 3082
- 14.2 Description of the goods : Environmentally hazardous substance, liquid, n.o.s.
(epoxy resin)
- 14.3 Class : 9
- 14.4 Packing group : III
- Labels : 9
- 14.5 Environmentally hazardous : yes

IMDG

- 14.1 UN number : 3082
- 14.2 Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(epoxy resin)
- 14.3 Class : 9
- 14.4 Packing group : III
- Labels : 9
- EmS Number 1 : F-A
- EmS Number 2 : S-F
- 14.5 Marine pollutant : yes

14.6 Special precautions for user

No data available

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to EC Directives (1999/45/EC)

Hazard pictograms :



Harmful



Dangerous for the
environment

R-phrases(s)	:	R21/22	Harmful in contact with skin and if swallowed.
		R36/38	Irritating to eyes and skin.
		R40	Limited evidence of a carcinogenic effect.
		R43	May cause sensitisation by skin contact.
		R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s)	:	S36/37	Wear suitable protective clothing and gloves.

Hazardous components which must be listed on the label:

- 249-204-3 4,4'-methylenebis[N,N-bis(2,3-epoxypropyl)aniline]
- 222-384-0 1-(2,3-epoxypropoxy)-2,2-bis[(2,3-epoxypropoxy)methyl]butane
- 500-033-5 reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight ≤ 700)

Special labelling of certain mixtures : Contains epoxy constituents. See information supplied by the manufacturer.

Prohibition/Restriction

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : None of the components are listed ($\geq 0.1\%$).

REACH - List of substances subject to authorisation (Annex XIV) : not applicable

REACH Information: All substances contained in our Products are
- preregistered or registered by our upstream suppliers, and/or
- preregistered or registered by us, and/or

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

- excluded from the regulation, and/or
- exempted from the registration.

Water contaminating class (Germany) : WGK 2 water endangering
Gemäß VwVws vom 30.Juli 2005

VOC-CH (VOCV) : 0,19 %
no VOC duties

VOC-EU (solvent) : 0,19 %

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of R-Phrases

R21/22	Harmful in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R40	Limited evidence of a carcinogenic effect.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

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.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

|| Changes as compared to previous version !

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR174 Resin (A)



Revision Date 02.12.2014

Version 3.0

Print Date 10.12.2014

II