



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin[®] CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

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

1.1 Product identifier

Trade name : Biresin[®] CH80-2 Hardener (B)

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

Use of the Sub- : no data available
stance/Mixture
Product information :

1.3 Details of the supplier of the safety data sheet

Company : Sika Deutschland GmbH
Kornwestheimer Str. 103-107
70439 Stuttgart
Telephone : +4971180090

1.4 Emergency telephone number

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

2. Hazards identification

2.1 Classification of the substance or mixture

Type of product : Mixture

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

Corrosive
Harmful

Toxic to Reproduction Category 3
Sensitising
Dangerous for the environment

R34: Causes burns.
R21/22: Harmful in contact with skin and if swallowed.
R62: Possible risk of impaired fertility.
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

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

Hazard pictograms :



Corrosive



Dangerous for the environment

R-phrases) : R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin® CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

S-phrases(s)	R43	May cause sensitization by skin contact.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R62	Possible risk of impaired fertility.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazardous components which must be listed on the label:

- 220-666-8 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- 216-032-5 m-phenylenebis(methylamine)
- 500-105-6 Polyoxypropylentriamine
- 202-679-0 4-tert-butylphenol

2.3 Other hazards

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

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

3. Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2 220-666-8 01-2119514687-32-XXXX	C; R34 Xn; R21/22 R43 R52-R53	Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 25 - < 50
m-phenylenebis(methylamine) 1477-55-0 216-032-5 01-2119480150-50-XXXX	Xn; R20/22 C; R34 R43 R52/53	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1; H317 Aquatic Chronic 3; H412 Acute Tox. 3; H331	>= 10 - < 20



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin® CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

Polyoxypropylentriamine 39423-51-3 500-105-6 01-2119556886-20-XXXX	T; R25 Xn; R21 Xi; R41 N; R51/53 C; R34	Acute Tox. 3; H301 Skin Corr. 1C; H314 Aquatic Chronic 2; H411 Acute Tox. 3; H311	>= 10 - < 20
Polyoxypropylenediamine 9046-10-0 01-2119557899-12-XXXX	C; R34	Skin Corr. 1B; H314	>= 10 - < 20
4-tert-butylphenol 98-54-4 202-679-0 01-2119489419-21-XXXX	Xi; R37/38-R41 N; R51/53 Repr.Cat.3; R62	Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361 STOT SE 3; H335 Aquatic Chronic 2; H411	>= 5 - < 10

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.

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.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Gastrointestinal discomfort
Allergic reactions



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin[®] CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

Nausea
Dermatitis
Skin disorders
See Section 11 for more detailed information on health effects and symptoms.

Risks : Health injuries may be delayed.
Dangerous amounts can be absorbed through the skin.
corrosive effects
sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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.

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
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.



Biresin[®] CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Persons with a history of skin sensitisation problems 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.

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

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

7.3 Specific end uses

Specific use(s) : no data available

8. Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters *	Basis *
4-tert-butylphenol	98-54-4	AGW	0,08 ppm 0,5 mg/m ³	DE TRGS 900

8.2 Exposure controls

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapor filter (Type A)
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin[®] CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Reference number: EN 374.
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.
- Eye protection : Tightly fitting safety goggles
Eye wash bottle with pure water
Wear eye/face protection.
- Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : liquid
- Colour : various
- Odour : amine-like
- Odour Threshold : no data available
- Flash point : > 101 °C
- Ignition temperature : no data available
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Flammability (solid, gas) : no data available
- Oxidizing properties : no data available



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin® CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

Autoignition temperature	: no data available
pH	: no data available
Melting point/range / Freezing point	: no data available
Boiling point/boiling range	: no data available
Vapour pressure	: no data available
Density	: ca.0,99 g/cm ³ at 20 °C
Water solubility	: no data available
Partition coefficient: n-octanol/water	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: > 7 mm ² /s at 40 °C
Relative vapour density	: no data available
Evaporation rate	: no data available

9.2 Other information

no data available

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 : Note: No decomposition if used as directed.

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

Thermal decomposition : Note: no data available



Biresin® CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

11. Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	: no data available
Acute inhalation toxicity	: no data available
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: Causes burns.
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: May cause sensitization by skin contact.
Mutagenicity	: no data available
Carcinogenicity	: no data available
Reproductive toxicity	: Possible risk of impaired fertility.
Teratogenicity	: no data available

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine :

Acute oral toxicity	: LD50 Oral: 1.030 mg/kg, rat
Acute dermal toxicity	: Acute toxicity estimate: 1.100 mg/kg, Converted acute toxicity point estimate

m-phenylenebis(methylamine) :

Acute inhalation toxicity	: LC50: 2,4 mg/l, 4 h, rat,
---------------------------	-----------------------------

Polyoxypropylentriamine :

Acute oral toxicity	: LD50 Oral: ca. 120 mg/kg, rat
Acute dermal toxicity	: LD50 Dermal: 614 mg/kg, rabbit

12. Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin[®] CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Components:

3-aminomethyl-3,5,5-trimethylcyclohexylamine :

Assessment : Non-classified vPvB substance, Non-classified PBT substance

m-phenylenebis(methylamine) :

Assessment : Unknown

Polyoxypropylentriamine :

Assessment : Non-classified vPvB substance, Non-classified PBT substance

Polyoxypropylenediamine :

Assessment : Unknown

4-tert-butylphenol :

Assessment : Unknown

12.6 Other adverse effects

no data available

13. Disposal considerations

13.1 Waste treatment methods

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

14. Transport information

ADR

14.1 UN number : 1760

14.2 Description of the goods : CORROSIVE LIQUID, N.O.S.
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)

14.3 Class : 8

14.4 Packing group : III

Classification Code : C9

Labels : 8

Tunnel restriction code : (E)

14.5 Environmentally hazardous : yes

IATA

14.1 UN number : 1760



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin® CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

- 14.2 Description of the goods** : Corrosive liquid, n.o.s.
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)
- 14.3 Class** : 8
- 14.4 Packing group** : III
- Labels : 8
- 14.5 Environmentally hazardous** : yes

IMDG

- 14.1 UN number** : 1760
- 14.2 Description of the goods** : CORROSIVE LIQUID, N.O.S.
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Polyoxypropylenediamine)
- 14.3 Class** : 8
- 14.4 Packing group** : III
- Labels : 8
- EmS Number 1 : F-A
- EmS Number 2 : S-B
- 14.5 Marine pollutant** : yes

14.6 Special precautions for user
no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no data available

15. Regulatory information

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

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH Information: All substances contained in Sika Products are
- preregistered or registered by our upstream suppliers, and/or
- preregistered or registered by Sika, and/or
- excluded from the regulation, and/or
- exempted from the registration.

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



SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin® CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

15.2 Chemical Safety Assessment

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

16. Other information

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

R20/22	Harmful by inhalation and if swallowed.
R21	Harmful in contact with skin.
R21/22	Harmful in contact with skin and if swallowed.
R25	Toxic if swallowed.
R34	Causes burns.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

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

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Key or legend to abbreviations and acronyms used in the safety data sheet

: STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
DNEL = Derived No Effect Level
ATE = Acute Toxicity Estimate
ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation
[Regulation (EC) No. 1272/2008]

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.





SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Biresin[®] CH80-2 Hardener (B)

Revision Date 06.02.2012

Print Date 15.02.2012

|| Changes as compared to previous version !