



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

Biresin[®] CH122-3 Hardener (B)

Revision Date 09.07.2012

Print Date 11.07.2012

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

1.1 Product identifier

Trade name : Biresin[®] CH122-3 Hardener (B)

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

1.4 Emergency telephone number

Emergency telephone number : 0173-6774799 Out of office hours only
: 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

R35: Causes severe burns.
R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R21/22: Harmful in contact with skin and if swallowed.
R43: May cause sensitization by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Sensitising
Dangerous for the environment

2.2 Label elements

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

Hazard pictograms :



Corrosive



Dangerous for the environment



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R-phrases(s) : R21/22 Harmful in contact with skin and if swallowed.
R35 Causes severe burns.
R43 May cause sensitization by skin contact.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s) : 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
- 217-168-8 4,4'-methylenebis(cyclohexylamine)
- 500-105-6 Polyoxypropylentriamine
- 211-776-7 cyclohex-1,2-ylenediamine
- 216-032-5 m-phenylenebis(methylamine)

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
4,4'-methylenebis(cyclohexylamine) 1761-71-3 217-168-8	Xn; R22 C; R35 N; R51/53	Acute Tox. 4; H302 Skin Corr. 1A; H314	>= 20 - < 25



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01-2119541673-38-XXXX	Xn; R48/22 R43	Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 2; H411	
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
cyclohex-1,2-ylenediamine 694-83-7 211-776-7	C; R34 R43	Skin Corr. 1B; H314 Skin Sens. 1; H317	>= 10 - < 20
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

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.
If symptoms persist, call a physician.
- 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.



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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
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

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|----------------------|--|
| Personal precautions | : Use personal protective equipment.
Evacuate personnel to safe areas.
Deny access to unprotected persons. |
|----------------------|--|

6.2 Environmental precautions

- | | |
|---------------------------|---|
| Environmental precautions | : Do not flush into surface water or sanitary sewer system. |
|---------------------------|---|



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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.

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 ap-
plication area.
Follow standard hygiene measures when handling chemical
products

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

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 resealed and
kept upright to prevent leakage.
Store in accordance with local regulations.

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

Contains no substances with occupational exposure limit values.

8.2 Exposure controls



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Personal protective equipment

Respiratory protection : No special measures required.
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.

Eye protection : Safety glasses with side-shields
Eye wash bottle with pure water
Wear eye/face protection.

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.

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 : colourless
Odour : amine-like
Odour Threshold : no data available
Flash point : > 101 °C
Ignition temperature : no data available
Lower explosion limit (Vol%) : no data available
Upper explosion limit (Vol%) : no data available



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Flammability (solid, gas)	: no data available
Oxidizing properties	: no data available
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	: 0,94 g/cm ³ at 20 °C
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: no data available
Viscosity, dynamic	: 10 mPa.s
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: Stable under recommended storage conditions., 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



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Thermal decomposition : Note: no data available

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 severe 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 : no data available
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

4,4'-methylenebis(cyclohexylamine) :

Acute oral toxicity : LD50 Oral: 625 mg/kg, rat
Acute dermal toxicity : LD50 Dermal: 2.110 mg/kg, rabbit

Polyoxypropylentriamine :

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

m-phenylenebis(methylamine) :

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

12. Ecological information

12.1 Toxicity



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Components:

4,4'-methylenebis(cyclohexylamine) :

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 6,84 mg/l, 48 h, Daphnia magna (Water flea)

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

Components:

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

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

4,4'-methylenebis(cyclohexylamine) :

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

Polyoxypropylentriamine :

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

cyclohex-1,2-ylenediamine :

Assessment : Unknown

m-phenylenebis(methylamine) :

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 : 2735

14.2 Description of the goods : POLYAMINES, LIQUID, CORROSIVE, N.O.S.



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(3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-methylenebis(cyclohexylamine))

14.3 Class : 8
14.4 Packing group : II
Classification Code : C7
Labels : 8
Tunnel restriction code : (E)
14.5 Environmentally hazardous : yes

IATA

14.1 UN number : 2735
14.2 Description of the goods : Polyamines, liquid, corrosive, n.o.s.
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-methylenebis(cyclohexylamine))

14.3 Class : 8
14.4 Packing group : II
Labels : 8
14.5 Environmentally hazardous : yes

IMDG

14.1 UN number : 2735
14.2 Description of the goods : POLYAMINES, LIQUID, CORROSIVE, N.O.S.
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4,4'-methylenebis(cyclohexylamine))

14.3 Class : 8
14.4 Packing group : II
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
not applicable

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.



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

VOC-CH (VOCV) : no VOC duties

VOC-EU (solvent) : not applicable

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.
R22	Harmful if swallowed.
R25	Toxic if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
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.

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.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
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



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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.



Changes as compared to previous version !