

**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006  
**Biresin® CH150-3 Hardener (B)**



Revision Date 11.12.2014

Version 2.0

Print Date 11.12.2014

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

### **1.1 Product identifier**

Trade name : Biresin® CH150-3 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., Product is not intended for consumer use.

### **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

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## **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.                              |
| Acute toxicity , Category 4           | H312: Harmful in contact with skin.                      |
| Skin corrosion , Category 1B          | H314: Causes severe skin burns and eye damage.           |
| Skin sensitisation , Category 1       | H317: May cause an allergic skin reaction.               |
| Chronic aquatic toxicity , Category 3 | H412: Harmful to aquatic life with long lasting effects. |

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

|                               |                                                        |
|-------------------------------|--------------------------------------------------------|
| Corrosive                     | R34: Causes burns.                                     |
| Harmful                       | R21/22: Harmful in contact with skin and if swallowed. |
| Sensitising                   | R43: May cause sensitisation by skin contact.          |
| Dangerous for the environment | R52/53: Harmful to aquatic organisms, may cause        |

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long-term adverse effects in the aquatic environment.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

: Danger

Hazard statements

: H302 + H312  
H314  
H317  
H412

Harmful if swallowed or in contact with skin  
Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

Hazardous components which must be listed on the label:

- 220-666-8 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- 205-411-0 2-piperazin-1-ylethylamine

## 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

#### Hazardous components

| Chemical Name<br>CAS-No.<br>EC-No. | Classification<br>(67/548/EEC) | Classification<br>(REGULATION<br>(EC) No | Concentration<br>[%] |
|------------------------------------|--------------------------------|------------------------------------------|----------------------|
|------------------------------------|--------------------------------|------------------------------------------|----------------------|

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| Registration number                                                                             |                                        | 1272/2008)                                                                                                         |                |
|-------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------|
| 3-aminomethyl-3,5,5-trimethylcyclohexylamine<br>2855-13-2<br>220-666-8<br>01-2119514687-32-XXXX | C; R34<br>Xn; R21/22<br>R43<br>R52-R53 | Acute Tox.4; H302<br>Acute Tox.4; H312<br>Skin Corr.1C; H314<br>Skin Sens.1A;<br>H317<br>Aquatic Chronic3;<br>H412 | >= 50 - <= 100 |
| 2-piperazin-1-ylethylamine<br>140-31-8<br>205-411-0<br>01-2119471486-30-XXXX                    | C; R34<br>Xn; R21/22<br>R43<br>R52/53  | Acute Tox.3; H311<br>Acute Tox.4; H302<br>Skin Corr.1B; H314<br>Skin Sens.1; H317<br>Aquatic Chronic3;<br>H412     | >= 25 - < 50   |

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.  
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 : 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.

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Gastrointestinal discomfort  
Allergic reactions  
Dermatitis

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|       |                                                                                                |
|-------|------------------------------------------------------------------------------------------------|
|       | Skin disorders<br>See Section 11 for more detailed information on health effects and symptoms. |
| Risks | : Health injuries may be delayed.<br>corrosive effects<br>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. |
|------------------------------|-----------------------------------------------------------------------------------------------------------|

#### 5.2 Special hazards arising from the substance or mixture

|                               |                                              |
|-------------------------------|----------------------------------------------|
| 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                           | : Standard procedure for chemical fires.                         |

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| Personal precautions | : Use personal protective equipment.<br>Deny access to unprotected persons. |
|----------------------|-----------------------------------------------------------------------------|

#### 6.2 Environmental precautions

|                           |                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental precautions | : Do not flush into surface water or sanitary sewer system.<br>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).<br>Keep in suitable, closed containers for disposal. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

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#### **6.4 Reference to other sections**

For personal protection see section 8.

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### **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 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. Follow standard hygiene measures when handling chemical products
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- 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 areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed 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 use(s)**

- Specific use(s) : No data available

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### **SECTION 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**

##### **Personal protective equipment**

- Eye protection : Safety glasses with side-shields

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Eye wash bottle with pure water  
Wear eye/face protection.

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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                              |                     |
|------------------------------|---------------------|
| Appearance                   | : liquid            |
| Colour                       | : yellow            |
| Odour                        | : characteristic    |
| Odour Threshold              | : No data available |
| Flash point                  | : > 101 °C          |
| Ignition temperature         | : not applicable    |
| Lower explosion limit (Vol%) | : No data available |
| Upper explosion limit (Vol%) | : No data available |
| Flammability (solid, gas)    | : No data available |

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|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Oxidizing properties                   | : No data available                     |
| Auto-ignition temperature              | : No data available                     |
| pH                                     | : ca. 11                                |
| Melting point/range / Freezing point   | : No data available                     |
| Boiling point/boiling range            | : No data available                     |
| Vapour pressure                        | : No data available                     |
| Density                                | : ca.0,94 g/cm <sup>3</sup><br>at 20 °C |
| Water solubility                       | : Note: insoluble                       |
| Partition coefficient: n-octanol/water | : No data available                     |
| Viscosity, dynamic                     | : ca.20 mPa.s<br>at 20 °C               |
| Viscosity, kinematic                   | : > 20,5 mm <sup>2</sup> /s<br>at 40 °C |
| Relative vapour density                | : No data available                     |
| Evaporation rate                       | : No data available                     |

### 9.2 Other information

No data available

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## 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.

### 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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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Components:

##### **3-aminomethyl-3,5,5-trimethylcyclohexylamine :**

|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| Acute oral toxicity   | : LD50 Oral rat: 1.030 mg/kg                                                               |
| Acute dermal toxicity | : Acute toxicity estimate : 1.100 mg/kg<br>Method: Converted acute toxicity point estimate |

##### **2-piperazin-1-ylethylamine :**

|                       |                                     |
|-----------------------|-------------------------------------|
| Acute oral toxicity   | : LD50 Oral rabbit: ca. 2.097 mg/kg |
| Acute dermal toxicity | : LD50 Dermal rabbit: ca. 866 mg/kg |

#### Skin corrosion/irritation

##### Product

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

##### Product

No data available

#### Respiratory or skin sensitisation

##### Product

May cause an allergic skin reaction.

#### Germ cell mutagenicity

##### Product

Mutagenicity : No data available

#### Carcinogenicity

##### Product

Carcinogenicity : No data available

#### Reproductive Toxicity/Fertility

Reproductive toxicity : No data available

No data available

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**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

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

**2-piperazin-1-ylethylamine :**

|                  |                                |
|------------------|--------------------------------|
| Toxicity to fish | : LC50: > 100 mg/l, 96 h, Fish |
|------------------|--------------------------------|

**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

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : In accordance with the EWC Waste Regulation the classifica-

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tion 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](http://www.sika.de)

### SECTION 14: Transport information

#### ADR

- 14.1 UN number : 2735
- 14.2 Description of the goods : POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(2-piperazin-1-ylethylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- 14.3 Class : 8
- 14.4 Packing group : III
- Classification Code : C7
- Labels : 8
- Tunnel restriction code : (E)
- 14.5 Environmentally hazardous : no

#### IATA

- 14.1 UN number : 2735
- 14.2 Description of the goods : Polyamines, liquid, corrosive, n.o.s.  
(2-piperazin-1-ylethylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- 14.3 Class : 8
- 14.4 Packing group : III
- Labels : 8
- 14.5 Environmentally hazardous : no

#### IMDG

- 14.1 UN number : 2735
- 14.2 Description of the goods : POLYAMINES, LIQUID, CORROSIVE, N.O.S.  
(2-piperazin-1-ylethylamine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine)
- 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 : no

#### 14.6 Special precautions for user

No data available

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

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## 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 :



Corrosive

|              |           |                                                                                                             |
|--------------|-----------|-------------------------------------------------------------------------------------------------------------|
| R-phrases(s) | : R21/22  | Harmful in contact with skin and if swallowed.                                                              |
|              | R34       | Causes burns.                                                                                               |
|              | R43       | May cause sensitisation by skin contact.                                                                    |
|              | R52/53    | Harmful 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
- 205-411-0 2-piperazin-1-ylethylamine

#### 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 (=> 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

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- 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) : 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.

### SECTION 16: Other information

#### Full text of R-Phrases

|        |                                                                                               |
|--------|-----------------------------------------------------------------------------------------------|
| R21/22 | Harmful in contact with skin and if swallowed.                                                |
| R34    | Causes burns.                                                                                 |
| R43    | May cause sensitisation by skin contact.                                                      |
| 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

|      |                                                    |
|------|----------------------------------------------------|
| 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.               |
| H412 | Harmful to aquatic life with long lasting effects. |

#### Full text of other abbreviations

|                 |                          |
|-----------------|--------------------------|
| Acute Tox.      | Acute toxicity           |
| Aquatic Chronic | Chronic aquatic toxicity |
| Skin Corr.      | Skin corrosion           |
| 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 !