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

1.1 Product identifier

Trade name : Biresin® CR131 Part A

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

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)

- Skin irritation, Category 2
  - H315: Causes skin irritation.
- Serious eye damage, Category 1
  - H318: Causes serious eye damage.
- Skin sensitisation, Category 1
  - H317: May cause an allergic skin reaction.
- Chronic aquatic toxicity, Category 2
  - H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

- Hazard pictograms : ⚠️ ⚠️ ⚠️
- Signal word : Danger
- Hazard statements : H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H318 Causes serious eye damage.
  H411 Toxic 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/ eye protection/ face protection.

**Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 500-033-5 reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <= 700)
- 500-006-8 reaction product: bisphenol F-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)
- 219-371-7 1,4-bis(2,3-epoxypropoxy)butane

**Additional Labelling:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 2.3 Other hazards

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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

<table>
<thead>
<tr>
<th>Hazardous components</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight &lt;= 700)</td>
<td>Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411</td>
<td>&gt;= 50 - &lt;= 100</td>
</tr>
<tr>
<td>25068-38-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500-033-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01-2119456619-26-XXXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>reaction product: bisphenol F-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>9003-36-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>500-006-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>01-2119454392-40-XXXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,4-bis(2,3-epoxypropoxy)butane</td>
<td>Aquatic Chronic3; H412 Acute Tox.4; H302</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>2425-79-8</td>
<td></td>
<td></td>
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<tr>
<td>219-371-7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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 : 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 : Allergic reactions Excessive lachrymation Erythema Dermatitis See Section 11 for more detailed information on health effects and symptoms.

Risks : irritant effects sensitising effects Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.
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
Specific hazards during firefighting: 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.

6.2 Environmental precautions
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 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 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 use(s)

Specific use(s): No data available

SECTION 8: Exposure controls/personal protection

8.1 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 ap-
proved 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 : viscous liquid
Colour : various
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
Oxidizing properties : No data available
Auto-ignition temperature : No data available
pH : ca. 6,6
Melting point/range / Freezing point: No data available
Boiling point/boiling range: No data available
Vapour pressure: 0.2 hPa
Density: ca.1.15 g/cm³ at 20 °C
Water solubility: Note: insoluble
Partition coefficient: n-octanol/water: No data available
Viscosity, dynamic: ca.2,000 mPa.s at 25 °C
Viscosity, kinematic: > 20.5 mm²/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.

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
Hazardous decomposition products: No decomposition if stored and applied as directed.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Not classified based on available information.

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

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>LD50 Oral (Rat): &gt; 5.000 mg/kg</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 Dermal (Rabbit): &gt; 20.000 mg/kg</td>
</tr>
</tbody>
</table>

1,4-bis(2,3-epoxypropoxy)butane:
Acute oral toxicity : LD50 Oral (Rat): 1.163 mg/kg

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

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

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
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Biresin® CR131 Part A

Rev.: 18.11.2015
Ver.: 3.0

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

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

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

<table>
<thead>
<tr>
<th>E2</th>
<th>ENVIRONMENTAL HAZARDS</th>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water contaminating class</td>
<td>WGK 2 water endangering (Germany)</td>
<td>200 t</td>
<td>500 t</td>
</tr>
<tr>
<td>VOC-CH (VOCV)</td>
<td>0.1 %</td>
<td>no VOC duties</td>
<td></td>
</tr>
<tr>
<td>VOC-EU (solvent)</td>
<td>10 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 15.2 Chemical Safety Assessment

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

### SECTION 16: Other information

**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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- 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
- Eye Dam. Serious eye damage
- Eye Irrit. Eye irritation
- Skin Irrit. Skin irritation
- Skin Sens. Skin sensitisation
- ADR Accord européen relatif au transport international des marchandises Dangereuses par Route
- CAS Chemical Abstracts Service
- DNEL Derived no-effect level
- EC50 Half maximal effective concentration
- GHS Globally Harmonized System
- IATA International Air Transport Association
- IMDG International Maritime Code for Dangerous Goods
- LC50 Median lethal dosis (the amount of a material, given all at once, which
causes the death of 50% (one half) of a group of test animals

LD50  Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)

MARPOL  International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978

OEL  Occupational Exposure Limit

PBT  Persistent, bioaccumulative and toxic

PNEC  Predicted no effect concentration


SVHC  Substances of Very High Concern

vPvB  Very persistent and very bioaccumulative

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!