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

1.1. Product identifier
Name of product: Repair Stick Plastic
Code-Nr: 105360

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s): 2-Component Epoxy Resins

1.3. Details of the supplier of the safety data sheet
Distributor: WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone: +49(0)251 / 9322 - 0, Fax: +49(0)251 / 9322 - 244
E-Mail: msds@weicon.de
Internet: www.weicon.de
Advice Produktsicherheit / Product-Safety-Department
Phone: +49(0)251 / 9322 - 0
Fax: +49(0)251 / 9322 - 244
E-mail (competent person): msds@weicon.de

1.4. Emergency telephone number
EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer: WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number
GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h): Tel: ++49 69 222 25285 (Deutsch, Englisch)

! SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
! Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

<table>
<thead>
<tr>
<th>Hazard classes and Hazard categories</th>
<th>Hazard Statements</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Sens. 1</td>
<td>H317</td>
<td></td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>H412</td>
<td></td>
</tr>
</tbody>
</table>

Hazard Statements
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

GHS07

! Signal word
Warning

Hazard Statements
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements
P102 Keep out of reach of children.
P261 Avoid breathing vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container to hazardous or special waste collection point.

! Hazardous ingredients for labeling
2,4,6-Tris(dimethylaminomethyl)phenol, 3-[3-(3-hydroxypropoxy)-2,2-bis[3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol

Special rules for supplemental label elements for certain mixtures
Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards
Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients

3.1. Substances
not applicable

3.2. Mixtures
Description
2-component epoxy sticks

! Hazardous ingredients

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[% weight]</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]</th>
</tr>
</thead>
<tbody>
<tr>
<td>25068-38-6</td>
<td>500-033-5</td>
<td>reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>0,5 &lt; 1</td>
<td>Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>236-675-5</td>
<td>titanium-dioxide</td>
<td>1 - 5</td>
<td></td>
</tr>
</tbody>
</table>

WEICON GmbH & Co. KG - Königsberger Straße 255 - D-48157 Münster / Germany
Hazardous ingredients (continued)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[% weight]</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]</th>
</tr>
</thead>
<tbody>
<tr>
<td>72244-98-5</td>
<td>615-735-8</td>
<td>3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol</td>
<td>20 - 50</td>
<td>Skin Sens. 1B, H317 / Aquatic Chronic 3, H412</td>
</tr>
</tbody>
</table>

REACH

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>01-2119560597-27</td>
</tr>
<tr>
<td>25068-38-6</td>
<td>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>01-2119456619-26</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>titanium-dioxide</td>
<td>01-2119489379-17</td>
</tr>
<tr>
<td>72244-98-5</td>
<td>3-[3-(3-hydroxypropoxy)-2,2-bis[(3-hydroxypropoxy)methyl]propoxy]propan-1-ol; 3-sulfanylpropane-1,2-diol</td>
<td>01-2120118957-46</td>
</tr>
</tbody>
</table>

! SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated soaked clothing immediately.

In case of inhalation
Ensure of fresh air.
In the event of symptoms refer for medical treatment.

! In case of skin contact
In case of contact with skin wash off with soap and water.
Consult a doctor if skin irritation persists.

In case of eye contact
After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion
Do not induce vomiting.
Call for a doctor immediately.

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

! Physician's information / possible symptoms
vomiting
skin irritation

Physician's information / possible dangers
allergic reactions

4.3. Indication of any immediate medical attention and special treatment needed
No information available.

! SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
Water spray jet

! Unsuitable extinguishing media
Full water jet
5.2. Special hazards arising from the substance or mixture
In case of fire formation of dangerous gases possible.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Carbon dioxide (CO2)

5.3. Advice for firefighters
! Special protective equipment for fire-fighters
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.
Do not inhale explosion and/or combustion gases.

! SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Ensure adequate ventilation.
Remove persons to safety.
Use personal protective clothing.

6.2. Environmental precautions
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
Take up mechanically and send for disposal.

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8

! SECTION 7: Handling and storage

7.1. Precautions for safe handling
! Advice on safe handling
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

! General protective measures
Do not inhale vapours.
Avoid contact with eyes and skin

! Hygiene measures
At work do not eat, drink, smoke or take drugs.
Work in rooms with good ventilation.
Wash hands before breaks and after work.

Advice on protection against fire and explosion
Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep in closed original container.

! Advice on storage compatibility
Do not store together with animal feedstuffs.
Do not store together with food.
Do not store together with acids.
Do not store together with oxidizing agents.
Further information on storage conditions
Protect from heat and direct solar radiation.
Store container at cool and aired place.
Store in a dry place.

7.3. Specific end use(s)
Recommendation(s) for intended use
See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Ingredients with occupational exposure limits to be monitored

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m3]</th>
<th>[ppm]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>14807-96-6</td>
<td>Talc respirable dust</td>
<td>8 hours</td>
<td>1</td>
<td></td>
<td>EH40/2005</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide: total inhalable dust</td>
<td>8 hours</td>
<td>10</td>
<td></td>
<td>EH40/2005</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>Titanium dioxide: respirable dust</td>
<td>8 hours</td>
<td>4</td>
<td></td>
<td>EH40/2005</td>
</tr>
</tbody>
</table>

DNEL/PNEC-values
DNEL worker

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance name</th>
<th>Value</th>
<th>Code</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>titanium-dioxide</td>
<td>10 mg/m3</td>
<td>DNEL long-term inhalative (systemic)</td>
<td></td>
</tr>
<tr>
<td>25068-38-6</td>
<td>reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>12,25 mg/m3</td>
<td>DNEL long-term inhalative (systemic)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8,33 mg/kg</td>
<td>DNEL long-term dermal (local)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bw/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8,33 mg/kg</td>
<td>DNEL long-term dermal (systemic)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>bw/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>0,31 mg/m3</td>
<td>DNEL long-term inhalative (systemic)</td>
<td></td>
</tr>
</tbody>
</table>

PNEC

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance name</th>
<th>Value</th>
<th>Code</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>13463-67-7</td>
<td>titanium-dioxide</td>
<td>100 mg/kg</td>
<td>PNEC sediment, freshwater</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 mg/kg</td>
<td>PNEC sediment, marine water</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 mg/l</td>
<td>PNEC sewage treatment plant (STP)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,127 mg/l</td>
<td>PNEC aquatic, freshwater</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 mg/l</td>
<td>PNEC aquatic, marine water</td>
<td></td>
</tr>
<tr>
<td>25068-38-6</td>
<td>reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>11 mg/kg</td>
<td>PNEC Secondary Poisoning</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,018 mg/l</td>
<td>PNEC aquatic, intermittent release</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,006 mg/l</td>
<td>PNEC aquatic, freshwater</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,0996 mg/kg</td>
<td>PNEC sediment, marine water</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,0006 mg/l</td>
<td>PNEC aquatic, marine water</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/l</td>
<td>PNEC sewage treatment plant (STP)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,996 mg/kg</td>
<td>PNEC sediment, freshwater</td>
<td></td>
</tr>
</tbody>
</table>
DNEL-/PNEC-values (continued)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance name</th>
<th>Value</th>
<th>Code</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-72-2</td>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>0,2 mg/l</td>
<td>PNEC sewage treatment plant (STP)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,084 mg/l</td>
<td>PNEC aquatic, freshwater</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,0084 mg/l</td>
<td>PNEC aquatic, marine water</td>
<td></td>
</tr>
</tbody>
</table>

Additional advice
The statutory local and national regulations have to be observed.

8.2. Exposure controls
! Respiratory protection
Not required

Hand protection
In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm; 480min;60min.
Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Eye protection
tightly fitting goggles

Other protection measures
protective clothing

Appropriate engineering controls
Sufficient ventilation and exhaustion.

! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value / Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>pasty</td>
</tr>
<tr>
<td>Colour</td>
<td>blue / white</td>
</tr>
<tr>
<td>Odour</td>
<td>hardly noticeable</td>
</tr>
</tbody>
</table>

Odour threshold
not determined

Important health, safety and environmental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value / Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>not applicable</td>
</tr>
<tr>
<td>boiling point</td>
<td>&gt; 35 °C</td>
</tr>
<tr>
<td>melting point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Vapourisation rate</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammable (solid)</td>
<td>not determined</td>
</tr>
<tr>
<td>Flammability (gas)</td>
<td>not determined</td>
</tr>
</tbody>
</table>
### Value | Temperature | at | Method | Remark
--- | --- | --- | --- | ---
Ignition temperature | > 200 °C | | | estimate
Self ignition temperature | | | | The product is not self-igniting.
Lower explosion limit | not determined | | | 
Upper explosion limit | not determined | | | 
Vapour pressure | < 500 Pa | 20 °C | | 
Relative density | ca. 1.8 g/cm³ | | | 
Vapour density | not applicable | | | 
Solubility in water | | | | insoluble
Solubility/other | not determined | | | 
Partition coefficient n-octanol/water (log P O/W) | not determined | | | 
Decomposition temperature | not determined | | | 
Viscosity dynamic | not applicable | | | 
Viscosity kinematic | not applicable | | | 

**9.2. Other information**
No information available.

---

### SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
Reactions with acids and strong oxidising agents.

10.4. Conditions to avoid
Keep away from heat.

10.5. Incompatible materials
- Substances to avoid
  - Amines
  - Acid
  - Oxidising agent, strong
10.6. Hazardous decomposition products
Carbon monoxide and carbon dioxide.
Nitrous oxides (NOx)
Toxic gases/vapours

Thermal decomposition

Remark No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 acute oral</td>
<td>18518 mg/kg</td>
<td>ATE</td>
<td></td>
</tr>
<tr>
<td>LD50 acute dermal</td>
<td>1 mg/kg</td>
<td>rat</td>
<td>CAS: 90-72-2</td>
</tr>
</tbody>
</table>

Skin irritation
low irritant effect - not necessary to label

Eye irritation
low irritant - no labeling duty

Skin sensitization sensitizing

Subacute Toxicity - Carcinogenicity

<table>
<thead>
<tr>
<th>Value</th>
<th>Species</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td></td>
<td></td>
<td>No experimental information on genotoxicity in vitro available.</td>
</tr>
<tr>
<td>Reproduction-Toxicity</td>
<td></td>
<td></td>
<td>No indications of toxic effects were observed in reproduction studies in animals.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td></td>
<td></td>
<td>No indications of carcinogenic effects are available from long-term trials.</td>
</tr>
</tbody>
</table>

Experiences made from practice
Sensitization through skin contact possible.
Frequent persistent contact with the skin may cause skin irritation.

Additional information
The product is to be handled with the caution usual with chemicals.
Other hazardous properties may not be excluded.
The product has not been tested. The information is derived from the properties of the individual components.
! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

<table>
<thead>
<tr>
<th>Value</th>
<th>Species</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>LC50 180 - 240 mg/l (96 h)</td>
<td>Oncorhynchus mykiss</td>
<td>CAS: 90-72-2</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Elimination rate</th>
<th>Method of analysis</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological</td>
<td>degradation</td>
<td></td>
<td>not degradable</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

! General regulation

Harmful to aquatic life with long lasting effects.
Do not allow uncontrolled leakage of product into the environment.
Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.
The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recommendations for the product
Remove in accordance with local official regulations.

Recommendations for packaging
Dispose of according to the local waste regulations.

General information
Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>ADR/RID</th>
<th>IMDG</th>
<th>IATA-DGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
14.5. Environmental hazards

-  

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

! SECTION 15: Regulatory information

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

VOC standard

VOC content 0 %

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

! SECTION 16: Other information

! Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations. The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.5

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.