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

1.1. Product identifier

Name of product: Repair Stick Steel
Code-Nr.: 105330

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:
Produktssicherheit / 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 Irrit. 2</td>
<td>H315</td>
<td></td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>H319</td>
<td></td>
</tr>
<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:
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- 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
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

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
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Printed 13.07.2018
revision 21.07.2017   (GB) Version 8.6

Repair Stick Steel

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>15 &lt; 25</td>
<td>Eye Irrit. 2, H319 / Skin Irrit. 2, H315 / Skin Sens. 1, H317 / Aquatic Chronic 2, H411</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>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>
</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
Remove the casualty into fresh air and keep him immobile.
In the event of symptoms refer for medical treatment.

In case of skin contact
In case of contact with skin wash off immediately 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
Nausea
skin irritation

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.

! Additional information
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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.
Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions
Do not discharge into the drains or bodies of water.
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
After taking up the material dispose according to regulation.
Take up mechanically.

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
Ensure sufficient ventilation.

! Hygiene measures
At work do not eat, drink, smoke or take drugs.
Remove soiled or soaked clothing immediately.
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>
</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>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 bw/day</td>
<td>DNEL long-term dermal (systemic)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>8,33 mg/kg bw/day</td>
<td>DNEL long-term dermal (local)</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>25068-38-6</td>
<td>reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight &lt;= 700)</td>
<td>0,0996 mg/kg</td>
<td>PNEC sediment, marine water</td>
<td></td>
</tr>
</tbody>
</table>

10 mg/l PNEC sewage treatment plant (STP)

0,006 mg/l PNEC aquatic, freshwater

0,996 mg/kg PNEC sediment, freshwater

0,0006 mg/l PNEC aquatic, marine water

**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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>solid mass</td>
</tr>
<tr>
<td>Colour</td>
<td>dark grey</td>
</tr>
<tr>
<td>Odour</td>
<td>hardly noticeable</td>
</tr>
</tbody>
</table>

Important health, safety and environmental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</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>meltings 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>
<tr>
<td>Ignition temperature</td>
<td>&gt; 200 °C estimate</td>
</tr>
<tr>
<td>Self ignition temperature</td>
<td>The product is not self-igniting.</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>not determined</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>not determined</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt; 500 Pa 20 °C</td>
</tr>
<tr>
<td>Relative density</td>
<td>2.25 g/cm³</td>
</tr>
<tr>
<td>Vapour density</td>
<td>not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>insoluble</td>
</tr>
<tr>
<td>Solubility/other</td>
<td>not determined</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (log P O/W)</td>
<td>not determined</td>
</tr>
<tr>
<td>Value</td>
<td>Temperature at</td>
</tr>
<tr>
<td>-------</td>
<td>----------------</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Viscosity dynamic</td>
<td>not applicable</td>
</tr>
<tr>
<td>Viscosity kinematic</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

**Oxidising properties**
No information available.

**Explosive properties**
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.
Reactions with amines.

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>11400 mg/kg</td>
<td>rat</td>
<td>CAS: 25068-38-6</td>
</tr>
</tbody>
</table>
### Value/Validation 
<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 acute dermal</td>
<td>1200 mg/kg</td>
<td>rat</td>
<td>CAS: 25068-38-6</td>
</tr>
</tbody>
</table>

**Skin irritation**  
irritant 

**Eye irritation**  
irritant 

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

**Experiences made from practice**  
Sensitization through skin contact possible. 
Irritates mucous membranes. 
Irritates eyes and skin. 

**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 2 mg/l (96 h)</td>
<td>Oncorhynchus mykiss</td>
<td>CAS: 25068-38-6</td>
</tr>
<tr>
<td>Daphnia</td>
<td>NOEC 0.3 mg/l (21 d)</td>
<td>Daphnia magna</td>
<td>CAS: 25068-38-6</td>
</tr>
<tr>
<td>Algae</td>
<td>EC50 220 mg/l (96 h)</td>
<td>Scenedesmus subspicatus</td>
<td>CAS: 25068-38-6</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 degradability</td>
<td>not degradable</td>
<td></td>
<td></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
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
Because of insolubility in water details are impossible to determinate.
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
Uncontaminated packaging may be treated as household waste.
Packaging that cannot be cleaned should be disposed of like the product.

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>
<tr>
<td>14.5. Environmental hazards</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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

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.