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

1.1. Product identifier

Pavement fixing hardener component

Further trade names

Pavement fixing hardener component

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

1.3. Details of the supplier of the safety data sheet

Company name: KORODUR

Westphal Hartbeton GmbH & Co. KG

Street: Hohensteinstraße 19

Place: D-44866 Bochum- Wattenscheid

Telephone: +49(0)2327/94570

e-mail: info@korodur.de

Contact person: Sander

Telephone: +49(0)2327/9457-17

e-mail: f.sander@korodur.de

Internet: www.korodur.de

1.4. Emergency telephone number:

+49(0)2327/94570

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard Statements:

Harmful if swallowed, in contact with skin or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

2.2. Label elements

Signal word: Danger

Pictograms: GHS05-GHS07

Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P102 Keep out of reach of children.

SECTION 3: Composition/information on ingredients
3.2. Mixtures

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Hazardous components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>220-666-8</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>C - Corrosive, Xn - Harmful</td>
<td>&gt; 10 %</td>
</tr>
<tr>
<td>2855-13-2</td>
<td>C - Corrosive, Xn - Harmful</td>
<td>R21/22-34-43-52-53</td>
<td></td>
</tr>
<tr>
<td>612-067-00-9</td>
<td>Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412</td>
<td>R62-63-22-34-50-53</td>
<td></td>
</tr>
<tr>
<td>246-672-0</td>
<td>nonylphenol</td>
<td>Repr. 2, Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H361fd H302 H314 H400 H410</td>
<td>5 - 15 %</td>
</tr>
<tr>
<td>25154-52-3</td>
<td>Repr. Cat. 3, C - Corrosive, Xn - Harmful, N - Dangerous for the environment</td>
<td>R62-63-22-34-50-53</td>
<td></td>
</tr>
<tr>
<td>601-053-00-8</td>
<td>Repr. 2, Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H361fd H302 H314 H400 H410</td>
<td>R62-63-22-34-50-53</td>
<td></td>
</tr>
<tr>
<td>202-859-9</td>
<td>benzyl alcohol</td>
<td>Acute Tox. 4, Acute Tox. 4; H332 H302</td>
<td>15 - 30 %</td>
</tr>
<tr>
<td>100-51-6</td>
<td>Xn - Harmful</td>
<td></td>
<td></td>
</tr>
<tr>
<td>603-057-00-5</td>
<td>Acute Tox. 4, Acute Tox. 4; H332 H302</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Xylylendiamin, C</td>
<td>Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H331 H302 H312 H314 H318 H317 H412</td>
<td>10 - 15 %</td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation
Remove casualty to fresh air and keep warm and at rest. Immediately get medical attention.

After contact with skin
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After contact with eyes
In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Water. Foam. Carbon dioxide (CO2). Extinguishing powder. Sand. Extinguishing materials should be selected according to the surrounding area.

Unsuitable extinguishing media
High power water jet.
5.2. Special hazards arising from the substance or mixture
Carbon monoxide. Carbon dioxide (CO2). Gase

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.

6.2. Environmental precautions
Do not empty into drains or the aquatic environment.

6.3. Methods and material for containment and cleaning up
Suitable material for diluting or neutralizing: sand sawdust. Universal binding agent. Treat the assimilated material according to the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling

Advice on protection against fire and explosion
No special fire protection measures are necessary. Combustible.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Handle and open container with care. Keep/Store only in original container. Protect against: heat. frost.
Do not store together with: Food and animal feedingstuff

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Additional advice on limit values
refer to chapter 7. No further action is necessary.

8.2. Exposure controls
Appropriate engineering controls
Keine weiteren Angaben.

Eye/face protection
Tightly sealed safety glasses.

Hand protection
Tested protective gloves are to be worn: Butyl rubber. NR (Natural rubber (Caoutchouc), Natural latex).

Skin protection
Protective clothing: Chemical resistant safety shoes.

Respiratory protection
With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: liquid
Colour: light brown
Odour: characteristic

Test method

pH-Value (at 20 °C): ca. 10

Changes in the physical state

Melting point: nicht bestimmt
Initial boiling point and boiling range: > 100 bei 1013 hPa °C
Flash point: ca. 150 °C
Vapour pressure: < 0,1 hPA hPa
Density (at 20 °C): 1,04 g/cm³ DIN 51757 g/cm³
Water solubility: highly soluble.

Solvent separation test: nicht anwendbar

SECTION 10: Stability and reactivity

10.3. Possibility of hazardous reactions
Säuren, stark exotherme Reaktionen mit Epoxidharzen möglich.

10.4. Conditions to avoid
Vorsorge zur Vermeidung elektrostatischer Aufladung treffen.

10.6. Hazardous decomposition products
nicht bekannt.

Further information
Bei Einhaltung der vorgeschriebenen Anwendungsbedingungen besteht keine Gefahr der Zersetzung oder unkontrollierter chemischer Reaktionen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicocinetics, metabolism and distribution
After skin contact: sensitizing.

Acute toxicity
Aufgrund des Gehaltes von ätzend eingestuften Komponenten muß mit ätzender Wirkung des Produktes auf Haut und Augen gerechnet werden.
### Exposure routes

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Species</th>
<th>Dose</th>
<th>Method</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>Rat</td>
<td>LD50 1030 mg/kg</td>
<td>oral</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATE 1100 mg/kg</td>
<td>dermal</td>
<td></td>
</tr>
<tr>
<td>25154-52-3</td>
<td>nonylphenol</td>
<td></td>
<td>ATE 500 mg/kg</td>
<td>oral</td>
<td></td>
</tr>
<tr>
<td>100-51-6</td>
<td>benzyl alcohol</td>
<td>Rat</td>
<td>LD50 1230 mg/kg</td>
<td>oral</td>
<td>GESTIS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATE 11 mg/l</td>
<td>inhalative vapour</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATE 1,5 mg/l</td>
<td>inhalative aerosol</td>
<td></td>
</tr>
<tr>
<td>1477-55-0</td>
<td>m-Xylylenediamin, C</td>
<td></td>
<td>ATE 500 mg/kg</td>
<td>oral</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATE 1100 mg/kg</td>
<td>dermal</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATE 3 mg/l</td>
<td>inhalative vapour</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ATE 0,5 mg/l</td>
<td>inhalative aerosol</td>
<td></td>
</tr>
</tbody>
</table>

**Irritation and corrosivity**

After skin contact: corrosive.

### SECTION 12: Ecological information

#### 12.1. Toxicity

If product enters soil, it will be mobile and may contaminate groundwater

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>2855-13-2</td>
<td>1.9</td>
</tr>
<tr>
<td>benzyl alcohol</td>
<td>100-51-6</td>
<td>1.05</td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Advice on disposal**

Carry out a burning of hazardous waste according to official regulations. Waste key product: 200112 (Klebstoffe und Kunstharze)

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN 2735

**14.3. Transport hazard class(es):** 8

**14.4. Packing group:** III

**Hazard label:** 8

#### Inland waterways transport (ADN)

**14.1. UN number:** UN 2735

**14.3. Transport hazard class(es):** 8
KORODUR

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Pavement fixing hardener component

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14.4. Packing group: III

Hazard label: 8

Marine transport (IMDG)

14.1. UN number: UN 2735

14.3. Transport hazard class(es): 8

14.4. Packing group: III

Hazard label: 8

Marine pollutant: Ja

Air transport (ICAO)

14.1. UN number: UN 2735

14.3. Transport hazard class(es): 8

14.4. Packing group: III

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
20/22 Harmful by inhalation and if swallowed.
21/22 Harmful in contact with skin and if swallowed.
22 Harmful if swallowed.
34 Causes burns.
43 May cause sensitisation by skin contact.
50 Very toxic to aquatic organisms.
52 Harmful to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.
62 Possible risk of impaired fertility.
63 Possible risk of harm to the unborn child.

Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on
our present-day knowledge. The information is intended to give you advice about the safe handling of
the product named in this safety data sheet, for storage, processing, transport and disposal. The
information cannot be transferred to other products. In the case of mixing the product with other
products or in the case of processing, the information on this safety data sheet is not necessarily valid
for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety
data sheet.)