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

1.1 Product identifier
Trade name weber.tec force EP bonding adhesive hardener

Safety data sheet no.: 44P046162

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture: Construction chemicals

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Saint-Gobain Weber
Dickens House
Enterprise Way
Flitwick
Bedfordshire
MK45 5BY

1.4 Emergency telephone number:
+44 (0)870 333 0070
Office Hours Only (08.30 - 17.00 UK time)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

 окружающий

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)
Hazard pictograms

GHS05  GHS07

Signal word Danger

Hazard-determining components of labelling:
3-aminomethyl-3,5,5-trimethylcyclohexylamine
Benzyl alcohol

Hazard statements
H302+H332 Harmful if swallowed or if inhaled.
H314  Causes severe skin burns and eye damage.
H317  May cause an allergic skin reaction.
H412  Harmful to aquatic life with long lasting effects.

Precautionary statements
P260  Do not breathe dust/fume/gas/mist/vapours/spray.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P273  Avoid release to the environment.
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/doctor.
P501  Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Does not contain PBT substances.
vPvB: Does not contain vPvB substances.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

<table>
<thead>
<tr>
<th>CAS:</th>
<th>EINECS:</th>
<th>Description</th>
<th>R52/53</th>
<th>Skin Corr.</th>
<th>Acute Tox. 4, H302;</th>
<th>Acute Tox. 4, H312;</th>
<th>Skin Sens.</th>
<th>Aquatic Chronic</th>
<th>H412</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2</td>
<td>220-666-8</td>
<td>3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 - 50%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100-51-6</td>
<td>202-859-9</td>
<td>Benzyl alcohol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>25 - 50%</td>
</tr>
</tbody>
</table>

Additional information
For the wording of the listed risk phrases refer to section 16.
SECTION 4: First aid measures

4.1 Description of first aid measures
General information
Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.
After inhalation Supply fresh air; consult doctor in case of complaints.
After skin contact
Immediately rinse with water.
Seek immediate medical advice.
After eye contact
Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30 °C).
After swallowing
Do not induce vomiting; call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.

4.2 Most important symptoms and effects, both acute and delayed
Repeated &/or prolonged exposure to low concentrations of vapours and/or aerosols may cause: sore throat.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture
Carbon monoxide (CO)
Nitrogen oxides (NOx)
Ammonia (NH3)

5.3 Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
6.2 Environmental precautions: Prevent from spreading (e.g. by damming-in or oil barriers).
6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Use only in well ventilated areas.
Emergency showers and eye wash stations should be readily accessible.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles:
Store only in unopened original receptacles.
Store in a cool location.
Insure sufficient ventilation for storage and work areas.
Information about storage in one common storage facility:
Do not store together with acids.
Do not store together with alkalis (caustic solutions).
Further information about storage conditions: None.
7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
Additional information:
The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Provide readily accessible eye wash stations and showers.
Provide natural explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits
Respiratory protection:
Use suitable respiratory protective device in case of insufficient ventilation.
Protection of hands:
Protective gloves.
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Fluid</td>
</tr>
<tr>
<td>Colour</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Ammonia-like</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value</td>
<td>Alkaline</td>
</tr>
<tr>
<td>Melting point/Range</td>
<td>Undetermined</td>
</tr>
<tr>
<td>Boiling point/Range</td>
<td>205 °C (DIN)</td>
</tr>
<tr>
<td>Flash point</td>
<td>166 °C (DIN ISO 2592)</td>
</tr>
<tr>
<td>Flammability (solid, gaseous)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>380 °C (DIN 51794)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Self-igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion</td>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosive limits</td>
<td></td>
</tr>
<tr>
<td>Lower</td>
<td>1.3 Vol % (DIN 51649)</td>
</tr>
<tr>
<td>Upper</td>
<td>13.0 Vol % (DIN 51649)</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapour pressure at 20 °C</td>
<td>0.1 hPa (DIN 51640)</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not miscible or difficult to mix</td>
</tr>
<tr>
<td>Segregation coefficient (n-octanol/water) log Pow</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>dynamic</td>
<td>Not determined.</td>
</tr>
</tbody>
</table>
**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 04.02.2016  Revision: 03.02.2016

**Trade name** weber.tec force EP bonding adhesive hardener

<table>
<thead>
<tr>
<th>kinematic:</th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent separation test:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solvent content:</td>
<td></td>
</tr>
<tr>
<td>Organic solvents:</td>
<td>41.0 %</td>
</tr>
<tr>
<td>EU-VOC</td>
<td>41.00 %</td>
</tr>
<tr>
<td>9.2 Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

10.1 Reactivity
10.2 Chemical stability Stable at recommended storage conditions

Thermal decomposition / Conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: Bases, acids, reducing agents, oxidising agents
10.6 Hazardous decomposition products:
No dangerous decomposition products known.
Nitric acid, ammonia, NOx, CO, CO2

**SECTION 11: Toxicological information**

11.1 Information on toxicological effects

Acute toxicity:
LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>Oral</td>
<td>1030 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>1840 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inhalative</td>
<td>&gt; 5.01 mg/l (-) (OECD TG 403)</td>
<td></td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td>Oral</td>
<td>1230 mg/kg (rat)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dermal</td>
<td>2000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inhalative</td>
<td>4178 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.

Sensitisation: No sensitising effects known.

**SECTION 12: Ecological information**

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
## Safety data sheet

**according to 1907/2006/EC, Article 31**

**Printing date 04.02.2016**  
**Revision: 03.02.2016**

**Trade name** weber.tec force EP bonding adhesive hardener

### 40.1.3 Type of test Effective concentration Method Assessment

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC 10</th>
<th>EC 10/18h</th>
<th>EC50/24h</th>
<th>EC50/48h</th>
<th>EC50/72h</th>
<th>LC50/48h</th>
<th>LC50/96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2</td>
<td>1120 mg/l (pseudomonas putida (Bacteria))</td>
<td>1120 mg/l (pseudomonas putida (Bacteria))</td>
<td>42 mg/l (water flea)</td>
<td>23 mg/l (water flea)</td>
<td>37 mg/l (scenedesmus subspicatus (Alge))</td>
<td>185 mg/l (orfe)</td>
<td>110 mg/l (Brachydanio rerio (Zebrabärbling))</td>
</tr>
<tr>
<td>100-51-6</td>
<td>400 mg/l (pseudomonas putida (Bacteria))</td>
<td>400 mg/l (pseudomonas putida (Bacteria))</td>
<td>400 mg/l (water flea)</td>
<td>640 mg/l (scenedesmus quadricauda (Alge))</td>
<td>645 mg/l (orfe)</td>
<td>10 mg/l (sunfish)</td>
<td>460 mg/l (minnow)</td>
</tr>
</tbody>
</table>

### 100-51-6 Benzyl alcohol

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC 10</th>
<th>EC50/24h</th>
<th>EC50/96h</th>
<th>LC50/48h</th>
<th>LC50/96h</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2</td>
<td>400 mg/l (pseudomonas putida (Bacteria))</td>
<td>400 mg/l (pseudomonas putida (Bacteria))</td>
<td>400 mg/l (water flea)</td>
<td>640 mg/l (scenedesmus quadricauda (Alge))</td>
<td>645 mg/l (orfe)</td>
</tr>
<tr>
<td>100-51-6</td>
<td>400 mg/l (pseudomonas putida (Bacteria))</td>
<td>400 mg/l (pseudomonas putida (Bacteria))</td>
<td>400 mg/l (water flea)</td>
<td>640 mg/l (scenedesmus quadricauda (Alge))</td>
<td>645 mg/l (orfe)</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and degradability

No further relevant information available.

### 12.3 Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>EBAB</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</td>
<td>0.79</td>
<td>Pow (-)</td>
</tr>
<tr>
<td>100-51-6 Benzyl alcohol</td>
<td>1.1</td>
<td>log Pow (Bioakkumulation)</td>
</tr>
</tbody>
</table>

### Behaviour in environmental systems:

#### 12.4 Mobility in soil

No further relevant information available.

### Ecotoxical effects:

### Behaviour in sewage processing plants:

### Type of test Effective concentration Method Assessment

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC 50 (3h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-51-6</td>
<td>79 mg/l (scenedesmus quadricauda (Alge))</td>
</tr>
</tbody>
</table>

### Other information:

<table>
<thead>
<tr>
<th>Substance</th>
<th>BSB (5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-51-6</td>
<td>1550 mg O2/g (-)</td>
</tr>
</tbody>
</table>

### Additional ecological information:

### General notes:

Do not allow product to reach ground water, water course or sewage system.

### 12.5 Results of PBT and vPvB assessment

**PBT:** Does not contain PBT substances.  
**vPvB:** Does not contain vPvB substances.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
European waste catalogue
Possible waste code. The concrete waste code depends of the source of the waste.

Uncleaned packaging:
Recommendation:
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

14.1 UN-Number
ADR, IMDG, IATA
UN2289

14.2 UN proper shipping name
ADR
2289 ISOPHORONEDIAMINE mixture
IMDG, IATA
ISOPHORONEDIAMINE mixture

14.3 Transport hazard class(es)
ADR

Class
8 (C7) Corrosive substances.
Label
8

IMDG, IATA

Class
8 Corrosive substances.
Label
8

14.4 Packing group
ADR, IMDG, IATA
III

14.5 Environmental hazards:
Marine pollutant:
No

14.6 Special precautions for user
Warning: Corrosive substances.
Danger code (Kemler):
80
EMS Number:
F-A,S-B

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

(Contd. of page 7)
40.1.3 Transport/Additional information:

ADR
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

Transport category 3
Tunnel restriction code E

IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN2289, ISOPHORONEDIAMINE mixture, 8, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H412 Harmful to aquatic life with long lasting effects.
R20/22 Harmful by inhalation and if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS: Product safety department.
Contact:
Dr Sara Kelly
Tel: 01525 722145
Email: sara.kelly@netweber.co.uk

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3