

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.02.2016

Revision: 03.02.2016

## 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



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.

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**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:**

CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine ☠ C R34; ☠ Xn R21/22; ☠ Xi R43 R52/53 ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25 - 50%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol ☠ Xn R20/22; ☠ Xi R36 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	25 - 50%

**Additional information** For the wording of the listed risk phrases refer to section 16.

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## 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

CO<sub>2</sub>, 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 (NO<sub>x</sub>)

Ammonia (NH<sub>3</sub>)

### 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.

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**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 washstations 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.

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Neoprene gloves  
PVC gloves  
Nitrile gloves  
Butyl rubber gloves  
**Eye protection:** Tightly sealed goggles  
**Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>Odour:</b>	Ammonia-like
<b>Odour threshold:</b>	Not determined.

<b>pH-value:</b>	Alkaline
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#### Change in condition

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	205 °C (DIN)

<b>Flash point:</b>	166 °C (DIN ISO 2592)
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<b>Flammability (solid, gaseous):</b>	Not applicable.
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<b>Ignition temperature:</b>	380 °C (DIN 51794)
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<b>Decomposition temperature:</b>	Not determined.
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<b>Self-igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product does not present an explosion hazard.
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#### Explosion limits:

<b>Lower:</b>	1.3 Vol % (DIN 51649)
<b>Upper:</b>	13.0 Vol % (DIN 51649)

<b>Oxidising properties</b>	Not determined.
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<b>Vapour pressure at 20 °C:</b>	0.1 hPa (DIN 51640)
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<b>Density:</b>	Not determined
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<b>Bulk density:</b>	Not applicable.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

#### Solubility in / Miscibility with

<b>Water:</b>	Not miscible or difficult to mix
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#### Segregation coefficient (n-octanol/water) log

<b>Pow:</b>	Not determined.
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#### Viscosity:

<b>dynamic:</b>	Not determined.
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<b>kinematic:</b>	Not determined.
<b>Solvent separation test:</b>	Not determined
<b>Solvent content:</b>	
<b>Organic solvents:</b>	41.0 %
<b>EU-VOC</b>	41.00 %
<b>9.2 Other information</b>	No further relevant information available.

## 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:

Components	Type	Value	Species
<b>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>			
Oral	LD50	1030 mg/kg (rat)	
Dermal	LD50	1840 mg/kg (rabbit)	
Inhalative	LC50/4 h	> 5.01 mg/l (-) (OECD TG 403)	
<b>100-51-6 Benzyl alcohol</b>			
Oral	LD50	1230 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rabbit)	
Inhalative	LC50/4 h	4178 mg/l (rat)	

#### 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.

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Type of test Effective concentration Method Assessment	
<b>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>	
EC 10	1120 mg/l (pseudomonas putida (Bacteria))
EC 10/18h	1120 mg/l (pseudomonas putida (Bacteria))
EC50/24h	42 mg/l (water flea)
EC50/48h	23 mg/l (water flea)
EC50/72h	37 mg/l (scenedesmus subspicatus (Alge))
LC50/48h	185 mg/l (orfe)
LC50/96h	110 mg/l (Brachydanio rerio (Zebrafisch))
<b>100-51-6 Benzyl alcohol</b>	
EC 10	400 mg/l (pseudomonas putida (Bacteria))
EC50/24h	400 mg/l (water flea)
EC50/96h	400 mg/l (water flea)
	640 mg/l (scenedesmus quadricauda (Alge))
LC50/48h	645 mg/l (orfe)
LC50/96h	10 mg/l (sunfish)
	460 mg/l (minnow)

**12.2 Persistence and degradability** No further relevant information available.**12.3 Bioaccumulative potential**

<b>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>	
EBAB	0.79 log Pow (-)
<b>100-51-6 Benzyl alcohol</b>	
EBAB	1.1 log Pow (Bioakkumulation)

**Behaviour in environmental systems:****12.4 Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Behaviour in sewage processing plants:**

Type of test Effective concentration Method Assessment	
<b>100-51-6 Benzyl alcohol</b>	
EC 50 (3h)	79 mg/l (scenedesmus quadricauda (Alge))
<b>Other information:</b>	
<b>100-51-6 Benzyl alcohol</b>	
BSB (5)	1550 mg O <sub>2</sub> /g (-)

**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.

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12.6 Other adverse effects No further relevant information available.

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## 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  
Label8 (C7) Corrosive substances.  
8

IMDG, IATA

Class  
Label8 Corrosive substances.  
8

### 14.4 Packing group

ADR, IMDG, IATA

III

### 14.5 Environmental hazards:

Marine pollutant:

No

### 14.6 Special precautions for user

Danger code (Kemler):

Warning: Corrosive substances.

EMS Number:

80

F-A,S-B

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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**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.

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**Contact:**

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**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

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