



MATERIAL SAFETY DATA

EDITION: 8 DATE: October 2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 Product identifier: **weber.tec anchor grout**

1.2 Relevant identified uses of the substance or mixture and uses advised against:
A pack comprising of liquid polyester resin, hardener containing benzoyl peroxide and inert filler.

1.3 Details of the supplier of the safety data sheet:

weber

Saint-Gobain Weber Limited
Dickens House
Enterprise Way
Flitwick
Bedford
MK45 5BY

Tel: 08703 330070
e-mail: sara.kelly@netweber.co.uk

1.4 Emergency telephone number:
08703 330070 (office hours 08.30 – 17.00 UK time)

2. HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No 1272/2008

Resin component



GHS02

Flam. Liq. 3 H226 Flammable liquid and vapour



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Acute Tox. 4 H332 Harmful if inhaled
Skin Irrit. 2 H315 Causes skin irritation
STOT SE 3 H335 May cause respiratory irritation

Hardener component



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction
Eye Irrit. 1 H319 Causes serious eye irritation.



GHS09 Environment

Aquatic acute 1 H400 Very toxic to aquatic life

Filler component

Not classified as hazardous.

Classification according to 67/548/EEC

Resin Component



Xn R48/20, R20



Xi R36/37/38

R10

Hardener component



Xi R43



R07



N R50/53

Filler component

Not classified as hazardous.

2.2 Label Elements

Resin Component

The mixture is classified and labelled according to the CLP regulation.

Hazard-determining components of labelling:

Styrene

Hazard pictograms: GS07 and GS02.

Signal word: Warning

Hazard statements:

H226 Flammable liquid and vapour.
 H315 Causes skin irritation
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled
 H335 May cause respiratory irritation

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing vapour.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P362 Take off contaminated clothing
 P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed

Additional statements:

Contains phthallic anhydride. May produce an allergic reaction.

Hardener component

The mixture is classified and labelled according to the CLP regulation.

Hazard-determining components of labelling:

Benzoyl peroxide

Hazard pictograms: GHS07 and GS09.

Signal word: Warning

Organic peroxide Type G

Hazard statements:

H317 May cause an allergic skin reaction
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life

Precautionary statements:

P261 Avoid breathing dust.
 P264 Wash hands and contaminated skin 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/face protection and protective clothing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.
P501	Dispose of contents and container according to local regulation.

Filler component

Not classified as hazardous (not applicable).







2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.





vPvB: Not applicable.

3. COMPOSITIONResin component

Substance	CAS No.	EC No.	Index No.	REACH reg No.	% weight	Classification according to (EC) No 1272/2008	Classification according to 67/548/EEC
styrene	100-42-5	20 2- 85 1-5	-	01- 211945 7861-32	Approx. 40	Flam Liq. 3 H226, Eye Irrit. 2 H319, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335, STOT RE 1 H372, Asp. Tox. 1 H304	R10  Xn R48/20,  R20,  Xi R36/37/38
Phthallic anhydride	85-44-9	20 1- 60 7-5	-	01- 211945 7017-41	<1	Acute Tox. 4 H332, STOT SE 3 H335, Resp. Sens.1 H334, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens.1	 Xn R22,  Xi R36/38,  Xi R41, R42/43

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Hardener component

Substance	CAS No.	EC No.	Index No.	REACH reg No.	% weight	Classification according to (EC) No 1272/2008	Classification according to 67/548/EEC
Benzoyl peroxide	94-36-0	202-327-6	-	01-211951-1472-50	3-6%	Organic peroxide Type B H241 Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic environment, acute 1 H400.	 E R03,  Xi, R36  Xi R43,  N R50/53

4. FIRST AID MEASURES

4.1 Description of first aid measures

- SKIN CONTACT:** Wash with plenty of soap and water. Do not use organic solvents.
- EYE CONTACT:** Rinse immediately with water for at least 15 minutes. Seek medical attention immediately.
- INHALATION:** Move affected person to fresh air. If symptoms persist seek medical attention.
- INGESTION:** Immediately rinse mouth repeatedly with water. If swallowing has occurred the affected person should drink plenty of water. Seek medical attention immediately.

4.2 Most important symptoms and effects both acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Water mist, Carbon dioxide, Foam and Dry powder. Do not use water.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Firefighters should wear breathing apparatus.

Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Avoid breathing dust or vapours. Avoid ignition sources.

6.2 Environmental precautions

Prevent contamination of soil, drains and surface water.

6.3 Methods and material for containment and cleaning up

Take up with absorbent, dry inert material and place in a suitable and closable container for disposal according to local regulations.

6.4 Reference to other sections

For further information on exposure control/personal protection or disposal measures, refer to Section 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Harmful by inhalation, sensitising. Avoid vapour formation and ignition sources. Avoid raising dust. Ensure good ventilation. Do not eat or drink in workplace.

7.2 Conditions for safe storage, including any incompatibilities

Store away from food and drink. Store in original undamaged containers securely closed. Store at room temperature away from direct sunlight. Keep away from sources of ignition. Keep away from oxidising materials. Keep away from heat. Avoid contact with skin and eyes.

7.3 Specific end use(s)

Refer to the technical data sheet for conditions of use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

Workplace Exposure Limits 8 hour TWA (According to EH40/05)

Resin:

Styrene	430mg/m ³
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Filler and hardener:

Dibenzoyl peroxide	5.0mg/m ³ .
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8.2 Exposure controls

Technical Protective Measures

No special measures required

Respiratory Protection

Not normally necessary. **Work in well-ventilated area.**

Use respiratory protection in case of insufficient ventilation. Wear suitable vapour mask if working in confined spaces, breathing apparatus with filter type A (resin).

Wear dust mask if there is a risk of raising dust: Use respiratory equipment with particle filter, type P1 (hardener).

Hand Protection

Wear suitable gloves (nitrile rubber).

Eye Protection

Wear suitable tightly sealed goggles. Contact lenses should not be worn.

Skin Protection

Wear impermeable overalls and closed footwear

Industrial hygiene

Wash hands after working with product. Remove and dispose of any contaminated clothing immediately.

Environmental control parameters

Prevent contamination of soil, drains and surface water.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Resin component

Appearance: amber liquid

Odour: styrene

Odour threshold: not determined

Boiling point: approx. 145°C

Flash point: 31°C

Auto-Ignition Temperature: 490°C

Vapour Pressure: 6.52mb (652N/m²) at 20°C (styrene)

Density at 20°C: 1.09 g/cm³

Solubility in / Miscibility with water at 30°C: Insoluble in water
organic solvents: Miscible with many organic solvents.

Viscosity: Dynamic at 25°C: 130-160mPa

Organic solvents: soluble in most organic solvents

Other information: No further relevant information available

Hardener component

Appearance: white powder

Odour: none

Odour threshold: not determined

Melting point/Melting range: not determined

Boiling point/Boiling range: not determined

Flash point: not determined

Ignition temperature: not determined

Self-flammability: decomposition products may be self-igniting.
 Danger of explosion: product is not explosive.
 Density at 20°C: not determined
 Solubility/miscibility with water: not miscible or difficult to mix
 Viscosity: N/A

9.2 Other information:

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Resin component reacts with amines, acids and alkalis.
 Hardener component reacts with reducing agents, acids, alkalis and heavy metal compounds.

10.2 Chemical stability

No decomposition if used according to specifications. Polymerisation can occur.

10.3 Possibility of hazardous reactions

Resin component reacts with strong oxidizing agents and peroxide. Avoid contact of hardener with rust, iron and Copper. Contact with incompatible materials such as acids, alkalis, heavy metals and reducing agents will result in hazardous decomposition. Do not mix with peroxide accelerators.

10.4 Conditions to avoid

Heat, flames, sparks, exposure to light, static discharges.

10.5 Incompatible materials

Resin component: Strong oxidizing agents and peroxide
 Hardener component: reducing agents, acids, alkalis and heavy metal compounds.

10.6 Hazardous decomposition products:

In the event of fire: poisonous gases/vapours. From hardener: Benzoic acid, Benzene.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Resin component

Styrene

LD50: Oral >2000mg/kg (rat)

LC50: Inhalation 11.8mg/l (rat) 4h

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Primary irritant effect:

On the skin: irritant

On the eye: irritating effect

Sensitisation: None

Hardener component

Benzoyl peroxide
 LD50: Oral >5000 mg/kg (rat)
 LC50 Inhalation >24300 mg/m³ (rat), dust

Primary irritant effect:
 On the skin: irritant
 On the eye: irritant
 Sensitisation: sensitization possible by skin contact

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Resin component

Aquatic toxicity:	
100-42-5 styrene	
EC50/48h	4.7 mg/l (Dap)
LC50/72h	4.9 mg/l (Alg)
LC50/96h	4.02-10 mg/l (fish)

Hardener component

Aquatic toxicity:	
94-36-0 Benzoyl peroxide	
EC50 (72h)	0.06mg/l (Alg)
LC50 (96h)	0.06mg/l (fish)
EC50 (48h)	0.11mg/l (<i>Daphnia Magna</i>)

12.2 Persistence and degradability

Resin component

No further relevant information available.

Hardener component

No further relevant information available.

12.3 Bioaccumulative potential

Resin component

n-octanol/water Log Pow =3

Hardener component

No further relevant information available.

12.4 Mobility in soil

Resin component

No further relevant information available.

Hardener component

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Resin component

PBT: Not applicable.

vPvB: Not applicable.

Hardener component

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects**Resin component**

Do not allow contamination of soil, drains, surface water, ground water or sewerage system.

Hardener component

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General: Dispose of in accordance with local regulations.

Elimination of the product residues: Resin and hardener components must be disposed of as hazardous waste. For easy disposal any unmixed resin and hardener can be mixed and allowed to cure. Once fully cured **weber.tec anchor grout** can be disposed of as inert waste.

Empty packaging disposal: **Contaminated** packaging material (e.g. containing resin or hardener component residues) should be disposed of identically to the product itself.

Uncontaminated packaging material should be treated as household waste or as recycling material.

14. TRANSPORT INFORMATION

Resin component14.1 UN number

1866

14.2 UN proper shipping name

Resin solution

14.3 Transport hazard class(es)

ADR/RID: Class 3

OMI-IDMG: Class 3

ICAO/IATA: Class 3

14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant: No

14.6 Special precautions for user

Not applicable. Flash Point: 31°C.

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

Not applicable

Hardener component:14.1 UN number

3077

14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dibenzoyl peroxide)

14.3 Transport hazard class(es)

ADR/RID: Class 9

OMI-IDMG: Class 9

ICAO/IATA: Class 9

14.4 Packing group

III

14.5 Environmental hazards

Marine pollutant: Yes

14.6 Special precautions for user

Not applicable.

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

Not applicable

Filler component:

Classification for transport not required

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance/mixture

Ensure all national and local regulations are observed.

15.2 Chemical safety assessment

This SDS contains an exposure scenario in an integrated format (in the main body of the text). The relevant information has been integrated in sections 1.2, 8, 9, 12, 15 and 16 of this SDS.

16. OTHER INFORMATION

Method for hazards classification: The hazard classification of the mixture was determined using the industry standard.

List of relevant risk phrases (section 3):

- H226 Flammable liquid and vapour.
- H241 Heating may cause a fire or explosion.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

Revision : The SDS has been revised according to the new format in accordance with EC regulation N° 453/2010.

Origin of key data used: This data sheet was drafted on the basis of information provided by suppliers.

Abbreviations and acronyms :

CAS : Chemical Abstracts Service N°

EINECS, ELINCS: European Chemical number

PNEC : Predicted No-Effect Concentration

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

This safety sheet has been prepared in accordance with the provisions of EC Regulation No. 1907/2006