

**Safety Data Sheet
according to 1907/2006/EC**

Ref: HSD/C40-3-4-5

Issue No: 12

Date of Issue: 24th October, 2011

1. Product and Company Identification

Product Name: CONFIL MORTAR / PUTTY / GROUT / CONCRETE / BEDDING MORTAR

Intended Uses: Unsaturated polyester resin based mortar / putty / grout / anchor compound / concrete / bedding mortar.

Manufacturer: UNIVERSAL SEALANTS (UK) LIMITED
Kingston House, 3 Walton Road, Pattinson North,
Washington, Tyne & Wear. NE38 8QA, United Kingdom

Tel: +44 (0) 191 416 1530 **Fax:** +44 (0) 191 415 4377 **Email:** info@usluk.com

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2. Hazard Identification

Possible Hazards:

Base:

R10: Flammable.

R20: Harmful by inhalation.

R36/38: Irritating to eyes and skin.

Aggregate:

R48: Danger of serious damage to health by prolonged exposure.

3. Composition / Information on Ingredients

Name	CAS No	EINECS	Conc. (w/w)	Classification	R. Phrases
BASE COMPONENT					
Styrene	100-42-5	202-851-5	35-50%	F,Xn	10,20,36/38
Phthalic Anhydride	85-44-9	201-607-5	<0.2%	Xn	22,37/38,41,42/43
Amorphous Silica	7631-86-9	231-545-4	0-2%	None	None
AGGREGATE COMPONENT					
Magnesium Silicate	14807-96-6	238-877-9	0-25%	None	None
Crystalline Silica	N/A	N/A	Trace	Xn	20,48
Dibenzoyl Peroxide	94-36-0	202-327-6	0.5-5%	O,Xi	36,43,7
Amorphous Silica	7631-86-9	231-545-4	0-5%	None	None

4. First Aid Measures

Inhalation: In case of drowsiness or sickness remove to fresh air, keep patient warm and at rest. If unconscious, turn to the recovery position. Seek medical assistance.

Skin Contact: Promptly remove contaminated clothing and wash the affected area with plenty of soap and water to ensure all traces of product are removed, then rinse thoroughly. Any contaminated clothing must be thoroughly cleaned before re-using. Seek medical advice if irritation persists.

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Eye Contact: Flush with copious amounts of clean water for at least 15 minutes, with the eye lids held open. Seek medical attention.

Ingestion: Wash out mouth with water. Keep patient at rest and obtain medical attention. DO NOT INDUCE VOMITING.

5. Fire Fighting Measures

Suitable Extinguisher Media: Alcohol-resistant foam, dry powder, carbon dioxide or sand.

Unsuitable Extinguishing Media: Water, halons.

Exposure Hazards: May give off toxic fumes if heated or involved in a fire, including carbon monoxide, carbon dioxide, benzoic acid, benzene, diphenyl 2-ethylhexyl phosphate and phenyl benzoate.

Special Protective Equipment: In the event of fire wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions: Wear protective equipment as specified in Section 8. Do not eat, drink or smoke. Avoid contact with skin and eyes. Avoid breathing vapours and dust. Eliminate all ignition sources.

Environmental Precautions: Eliminate all ignition sources. Keep people and animals away. Prevent entry into drains, sewers and watercourses. If spillage enters drains leading to sewerage works inform the local water company. If spillage enters rivers or watercourses inform the Environment Agency.

Spillages: Cordon off area. Absorb/contain spillage using inert absorbent granules, sand or earth. Transfer collected material to heavy-duty plastic/steel drums and keep in a well ventilated place for subsequent safe disposal. See Section 13.

7. Handling and Storage

Handling: No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Sections 6 and 8 if exposure to product is possible. Take precautionary measures against static discharges. Wash thoroughly with soap and water before eating, drinking or smoking, and after work

Storage: Store in original containers in a well ventilated area away from heat, sunlight, ignition sources or open flame. Keep away from reducing agents (eg amines), acids, alkalis and heavy metal compounds (eg accelerators, driers, metal soaps).

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8. Exposure Controls / Personal Protection

- Occupational Exposure Standards:** Styrene - 8 hour TWA 100ppm, 15 min STEL 250ppm WEL.
Crystalline Silica - 8 hour TWA 0.3mg/m³ (respirable) WEL.
These exposure limits must not be exceeded at any time during the exposure period.
Dibenzyl Peroxide - 8 hour TWA 5mg/m³ WEL.
Talc - 8 hour TWA 1mg/m³ (respirable) WEL.
Amorphous Silica - 8 hour TWA 6mg/m³ (total inhalable), 2.4mg/m³ (respirable) WEL.
General Dust - 8 hour TWA 10mg/m³ (total inhalable), 4mg/m³ (respirable) WEL.
While the base component may contain amorphous silica (depending on grade), which has a Workplace Exposure Limit assigned to it, this material is not present in powder form and therefore does not present an inhalation hazard.
- Engineering Control Measures:** Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection and may include physical containment and good ventilation.
- Respiratory Protection:** Where an aggregate component is included with the product an approved respirator and filter medium for dusts should be used if engineering controls are unlikely to control exposure below the relevant exposure standards. If levels of styrene exceed the above limits use an approved respirator fitted with an appropriate gas cartridge (organic substance). All items must conform to EN149 and should be suitable for the levels of contamination present in the workplace.
- Hand Protection:** Wear Neoprene, Nitrile or PVC gloves or gauntlets. These must be manufactured to EN374. The material breakthrough time should be stated by the glove manufacturer, and must be observed at all times.
- Eye Protection:** If splashing of the product is likely chemical resistant goggles should be worn.
- Body Protection:** Wear suitable impervious, chemical resistant overalls.
- Foot Protection:** Wear chemical resistant safety footwear.
- Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance:	Base	Purple/amber liquid	Boiling Point:	Base	>=145°C
	Aggregate	Sand coloured fine aggregate		Hardener	N/A

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Odour:	Aromatic	Vapour Pressure @ 20°C:	Base Hardener	6.52mb N/A
pH:	N/A	Evaporation Rate (Butyl Acetate = 1):		N/D
Flash Point:	31°C	Flammable Limits in Air:	Upper: Lower:	6.1% 1.1%
Solubility:	Immiscible in water	Autoignition Temperature:		490°C
Flammability:	Flammable			
Specific Gravity:	2.05 (Mixed) - Confil Mortar 1.93 (Mixed) - Confil Grouts 2.1 (Mixed) - Confil Bedding Mortar	1.73 (Mixed) - Confil Putty 2.1 (Mixed) - Confil Concrete		

10. Stability and Reactivity

Stability:	Base: Aggregate:	Stable under normal conditions (see Section 7). A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by direct contact with incompatible substances or by thermal decomposition at and above 60°C.
Materials to Avoid:	Base: Aggregate:	Strong oxidising agents. Acids, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators. Do not mix with reducing agents.
Hazardous Decomposition Products:		Carbon monoxide, carbon dioxide, benzoic acid, benzene, diphenyl 2-ethylhexyl phosphate and phenyl benzoate.

11. Toxicological Information

There is no data available on the product itself.
The following data applies to the Base material.

Acute Toxicity:

Inhalation:	Harmful.
Eye Contact:	Irritating to the eyes.
Skin Contact:	Irritating to the skin.
Ingestion:	May result in irritation to the gastro intestinal tract.

The following data applies to the Benzoyl peroxide component of the Hardener material.

Acute Toxicity:

Eye Contact:	Moderately irritating.
Skin Contact:	Non-irritating.
Ingestion:	Oral LD50 (rat) >5000 mg/kg

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Risk and Safety Phrases:

R10: Flammable.
R20: Harmful by inhalation.
R36/38: Irritating to eyes and skin.
S23: Do not breathe vapours.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Hardener:

Designated Name: CONFIL MORTAR / PUTTY / GROUT / CONCRETE / BEDDING MORTAR

Classification: Not classified as hazardous

Indication(s) of Danger: None

Risk and Safety Phrases:

R48: Danger of serious damage to health by prolonged exposure.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S38: In case of insufficient ventilation wear suitable respiratory equipment.

UK Guidance Publications: EH40; Occupational Exposure Limits, HSE. Revised annually.
EH44; Dust in the Workplace: General Principles of Protection, HSE.
EH26; Occupational Skin Diseases - Health and Safety Precautions, HSE.
MDHS 14; Methods for the Determination of Respirable and Total Dusts, HSE.
COSHH Essentials, HSE

UK Legislation: Health and Safety at Work, etc Act, 1974, and relevant Statutory Provisions.
Control of Substances Hazardous to Health Regulations, 1999.
The Manual Handling Operations Regulations, 1992.
The Personal Protective Equipment at Work Regulations, 1992.
Chemicals (Hazard Information and Packaging for Supply) Regulations, 2002 - CHIP 3.

16. Other Information

Full Text of R-Phrases Referred to above:

R7: May cause fire.
R10: Flammable.
R20: Harmful by inhalation.
R22: Harmful if swallowed.
R36/38: Irritating to eyes and skin.
R37/38: Irritating to respiratory system and skin.
R41: Risk of serious damage to eyes.
R42/43: May cause sensitisation by inhalation and skin contact.
R48: Danger of serious damage to health by prolonged exposure.

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- Training Advice:** Do not use unless trained to do so. Refer to the Technical Data Sheet for the product.
- Recommended Uses:** For professional use only. These products are designed for use for repairing concrete structures and for anchoring bolts and other fixings.
- Further Information:** This Safety Data Sheet was compiled in accordance with EU Directives 67/548/EEC and 1999/45/EC. The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark. ESES (The European Chemical Substances Information System), provided by the European Commission Joint Research Centre in Ispra, Italy. Reference was also made to the above legislation and guidance publications.
- MSDS First Issued:** 15th September, 1989.
- MSDS Revised:** 24th October, 2011.
- Changes in this Version:** Section 14 revised to reflect change in IATA classification.
- Prepared By:** F. Stratton

Disclaimer: The information in this document is offered for general health and safety guidance only and is not intended to be a definitive source of advice, nor does it constitute a risk assessment, for which the user is responsible. All information provided in this document is believed to be accurate to the best of our knowledge. Users of the products referred to should observe the recommendations, conditions and instructions relating to any relevant product label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request.