Issue No: 8

Date of Issue: 10th March, 2003

UNIVERSAL SEALANTS (UK) LIMITED

NUFINS DIVISION

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1. Product Identification

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

MORTAR

Description: Unsaturated polyester resin based mortar / putty / grout / anchor

compound / concrete / bedding mortar.

2. Composition / Information on Ingredients

Ingredient	CAS Number	Conc. (w/w)	Classification	R. Phrases
BASE COMPONENT				
Styrene	100-42-5	35-50%	F,Xn	10,20,36/38
Phthalic Anhydride	85-44-9	<0.2%	Sensitising	42/43
Amorphous Silica	7631-86-9	0-2%	None	None
AGGREGATE COMPONENT				
Magnesium Silicate	14807-96-6	0-25%	None	None
Crystaline Silica		Trace	Xn	20,48
Dibenzoyl Peroxide	94-36-0	0.5-5%	O,Xi	36,43,7
Amorphous Silica	7631-86-9	0-5%	None	None

3. Hazard Identification

Base resin is flammable, harmful by inhalation and irritating to eyes and skin. Strongly exothermic polymerisation may be initiated by heat, peroxides or other free radical generators. Aggregate may cause fires, is irritating to eyes and may cause sensitisation by skin contact.

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.

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.

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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: Full face, positive pressure, self-contained breathing

apparatus and full protective clothing.

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).

8. Exposure Controls / Personal Protection

Occupational Exposure Standards: Styrene - 8 hour TWA 100ppm, 15 min STEL 250ppm

MEL.

Crystaline Silica - 8 hour TWA 0.3mg/m³ (respirable)

MÉL.

These exposure limits must not be exceeded at any

time during the exposure period.

Dibenzyl Peroxide - 8 hour TWA 5mg/m³ OES Talc - 8 hour TWA 1mg/m³ (respirable) OES Amorphous Silica - 8 hour TWA 6mg/m³ (total

inhalable), 2.4mg/m³ (respirable) OES

General Dust - 8 hour TWA 10mg/m³ (total inhalable),

4mg/m³ (respirable) OES

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While the base component may contain amorphous

silica (depending on grade), which has an

Occupational Exposure Standard 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 conforming to BS 2092 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/ **Boiling Point:** Base >=145°C

amber liquid Hardener N/A

Aggregate Sand coloured fine aggregate

Odour: Aromatic Vapour Pressure @ 20°C: Base 6.52mb

Hardener N/A

pH: N/A Evaporation Rate (Butyl Acetate = 1): N/D

Flash Point: 31°C Flammable Limits in Air: Upper: 6.1%

Lower: 1.1%

Solubility: Immiscible in water Autoignition Temperature: 490°C

Flammability: Flammable

Specific Gravity: 2.05 (Mixed) - Confil Mortar 1.73 (Mixed) - Confil Putty

1.93 (Mixed) - Confil Grouts 2.1 (Mixed) - Confil Concrete

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2.1 (Mixed) - Confil Bedding Mortar

10. Stability and Reactivity

Stability: Base: Stable under normal conditions (see Section 7).

Aggregate: 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: Strong oxidising agents.

Aggregate: 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

Genotoxicity: Ames test: not mutagenic.

12. Ecological Information

There is no data available on the product itself.

The following data applies to un-mixed material only, as once the base and hardener are combined the harmful constituents will react to form an inert product.

Both styrene and dibenzoyl peroxide are readily biodegradable.

Dibenzoyl peroxide (78%)

Ecotoxicity: Fish: Acute toxicity, 96h-LC50 = 2.0 mg/ltr (Poecilia reticulata)

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Bacteria: Activated sludge respiration inhibition test EC50 = 35 mg/ltr. Hazardous for water. Do not allow the product to reach ground water, water bodies or sewage systems. Must not reach sewage water or drainage ditch undiluted or unneutralised.

13. Disposal Considerations

Un-reacted materials: Dispose of used containers and un-reacted product as hazardous waste, in accordance with all applicable local and national regulations, and in compliance with the Environmental Protection (Duty of Care) Regulations 1991.

14. Transport Information

UN Number: 1866 Packaging Group: III

ROAD AIR

ADR Class: 3 Air Transport Number: 3
ADR Hazard Number: 30 Packaging Instruction: 310

SEA

IMDG Class: 3.3 IMDG Page Number: 3379 Marine Pollutant: P

Proper Shipping Name: Resin solution, flammable.

15. Regulatory Information

EU Classification and Labelling Particulars:

Base:

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

MORTAR

Classification: Flammable & Harmful

Indication(s) of Danger: F & Xn

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.

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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.

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. R36/38: Irritating to eyes and skin.

R42/43: May cause sensitisation by inhalation and skin

contact.

R48: Danger of serious damage to health by prolonged

exposure.

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. Reference was also made to the above legislation and guidance publications.

MSDS First Issued: 15th September 1989

MSDS Revised: 10th March 2003

Changes in this Version: All sections revised to comply with CHIP 3 provisions.

Prepared By: F. Stratton

Disclaimer: The information in this document is offered for general health and safety

quidance 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

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label, usage information, consent or approval in force at the time. Further and more specific information may be obtained from the supplier on request.