

Polyester Resin

1. Identification of Substance/Preparation and Company

- Product Name:** Pe MasonMate Polyester Resin
- Company:** Harrison & Clough Ltd, P.O. Box 9, Harclo Road , Off Aireworth Road, Keighley, West Yorks, BD21 4EG
- Chemical Name and Synonyms:** 2 Component Chemical Anchor Grout Containing Unsaturated Resin and Dibenzoyl Peroxide.
- For Information:** 0844 571 22 22 / 571 22 23 (8.15am - 6.00pm)
- In an Emergency:** As Above.

2. Composition/Information On Ingredients

Hazardous Substance	CAS Number	Concentration Range	Warning Symbol	Risk Phrases
Styrene	100-42-5	10 – 30%	Xn	R10, R20, R36/38
Dibenzoyl Peroxide	94-36-0	10 – 30%	E, Xi	R2, R36, R43

3. Hazards Identification

- Resin:** Flammable, Harmful by inhalation, Irritating to eyes and skin.
- Catalyst:** May cause sensitisation by skin contact.
- 4. First Aid Measures** Summon immediate medical assistance on contact with skin, eyes, inhalation or ingestion.
- Eye:** Irrigate with clean water for at least 15 minutes. Seek medical attention.
- Skin:** Remove from skin with plenty of soap and water. Remove contaminated clothing. If irritation persists, seek medical advice.
- Ingestion:** Drink plenty of water. Seek medical attention. **DO NOT INDUCE VOMITING.**

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Inhalation:

Move patient to fresh air and allow to rest. If patient is slow to recover or unconscious, obtain medical assistance immediately.

First Aiders should protect themselves from exposure (Ref to Section 8).

5. Fire Fighting Measures

Extinguishing Media:

Dry powders, CO₂ and Foam. Not to be used: Halones

Exposure Hazards:

Flammable. Sealed containers heated can pressurise leading to explosion. Emits acrid black smoke and irritating fumes when heated to decomposition.

Fire Fighting Equipment:

Wear self contained breathing apparatus.

6. Accidental Release Measures

Do not discharge into sewers. Scrape up and place into a suitable container for disposal. Wash area with water.

Refer to section 5, 8 and 13 for Protective Measures and Disposal.

7. Handling and Storage

Resin:

Keep away from heat and sources of ignition.

Catalyst:

Keep away from heat and sources of ignition. No sparking tools should be used. Never bring into direct contact with accelerator.

Store in a cool dry place. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metals compounds.

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8. Exposure Controls/Personal Protection.

Hazardous Substance		Long Term Exposure Limit 8 hour TWA		Short Term Exposure Limit 15 minutes	
ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
	Styrene	100	430	250	1080
	Dibenzoyl Peroxide	-	5	-	-

8. Exposure Controls/Personal Protection - Continued

Respiratory:

If forced air extraction is not available in enclosed areas, an organic vapour mask will be required if the occupational exposure limit is exceeded.

Ingestion:

Unlikely during normal use.

Skin Protection:

Wear gloves at all times.

Eye Protection:

Not normally required during normal use. If splashing can occur, goggles should be worn.

9. Physical/Chemical Properties

Resin		Catalyst	
Appearance	Thick amber Paste	Appearance	Thick Grey Paste
Odour	Distinct styrene	Odour	Faint
Density	1.60g/cm3	Density	1.45g/cm3
Flash Point	310C	Flash Point	Above the SADT (50°C)
Explosive properties	Lower limit 1.1% Upper limit 6.1%	Oxidising properties	Oxidising
Autoflammibility	490°C	Autoflammibility	> 380°C
Solubility	Insoluble in water	Solubility	Soluble in water

10. Stability And Reactivity

Stability:

Stable under normal conditions. Resin component can polymerise (solidify) exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. A dangerous self accelerating decomposition reaction and under certain circumstances explosion or fire can be caused by direct contact of the catalyst with incompatible substances or by thermal decomposition

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Materials to Avoid - Catalyst:

Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators.

Resin:

Reacts vigorously with strong oxidising agents and peroxides. Hazardous Decomposition: Emits acrid smoke and irritating fumes of carbon oxides when heated to decomposition.

Hazardous Polymerisations:

Polymerisations in a closed container can give rise to pressure, which may rupture the vessel.

11. Toxicological Information

Oral - Resin:

Material is classified as harmful. An LD50 (rat) is 2650mg/m3.

Catalyst:

Material is classified as a sensitiser and may cause sensitisation by skin contact. An LD50 (rat) is 7710mg/m3

Inhalation - Resin:

Lung irritant, can induce drowsiness and eventual unconsciousness. Do not breathe fumes.

Eye:

Irritation and redness may occur.

Skin:

Irritation and redness may occur.

12. Ecological Information

Do not discharge into drains or the environment.

13. Disposal Considerations

In an uncured state, place in a suitable container and dispose as chemical waste in accordance with local regulations. Small quantities of resin and catalyst may be reacted together, allow to cure and dispose as solid waste.

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14. Transport Information

Supply label: Harmful
Flammable
UN No./SI No. 3269. Polyester resin kit
Hazard Class 3
Packing Group III

15. Regulatory Information

Labelling: Harmful, Flammable.
Risk Phrases (R10) Flammable.
(R20) Harmful by inhalation.
(R36/38) Irritating to eyes and skin.
Safety Phrases (S2) Keep out of reach of children.
(S23) Do not breathe vapour.
(S46) If swallowed, seek medical advice immediately and show this container or label.

16. Other Information

Risk phrases used in section 2 and not previously mentioned:
R2 – Risk of explosion by shock, friction, fire or other sources of ignition.
R36 – Irritating to the eyes
R43 – May cause sensitisation by skin contact.

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Prepared By: P Wadsworth

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