

Vinylester Resins

1. Identification of Substance/Preparation and Company

Product Name:	VESF MasonMate ETA Vinylester
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
Ethylene Dimethacrylate	97-90-5	10 - 20%	Xi, N	R36/37/38, 51/53
Methacrylate Acid, Monoester with Propane-1, 2-diol	27813-02-1	10 - 20%	Xi	R36/43
Dibenzoyl Peroxide	94-36-0	10 - 30%	E, Xi	R2, R36, R43, R3

3. Hazards Identification

Resin: May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to respiratory system.

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.**

Vinylester Resins

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:

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.

Must only be kept in original packaging.

Vinylester Resins

8. Exposure Controls/Personal Protection

Occupational exposure limit – none assigned

Respiratory:

Ensure good ventilation to minimise exposure to vapours. Breathing protection is required in inadequately ventilated places.

Ingestion:

Unlikely during normal use.

Skin Protection:

Wear gloves and protective clothing 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	Sweet aromatic	Odour	Faint
Density	1.60g/cm ³	Density	1.45g/cm ³
Flash Point	800C	Flash Point	Above the SADT (50°C)
Explosive properties	N/D	Oxidising properties	Oxidising
Autoflammibility	N/D	Autoflammibility	> 380°C
Solubility	Partly soluble 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.

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.

Vinylester Resins

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 an irritant and is considered likely to have a low order of toxicity in normal handling.
Catalyst:	Material is classified as a sensitiser and may cause sensitisation by skin contact. An LD50 (rat) is 7710mg/m3
Eye:	Severe eye irritant.
Skin:	Irritation and redness may occur. The possibility of allergic sensitisation should be considered.
Ingestion/Inhalation:	There may be loss of consciousness.
12. Ecological Information	
	Do not discharge into drains or the environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not identified as a PBT substance.
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, allowed to cure and dispose as solid waste.
14. Transport Information	
	Not classified as hazardous for transport.

Vinylester Resins

15. Regulatory Information

Labelling:



Irritant

Risk Phrases

(R37) Irritating to respiratory system.

(R43) May cause sensitisation by skin contact.

(R52/53) Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

(S2) Keep out of reach of children.

(S24/25) Avoid contact with skin and eyes.

(S26) In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

(S37) Wear suitable gloves.

(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.

R37 – Irritating to respiratory system.

R43 – May cause sensitisation by skin contact.

R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Date of Preparation:

February 2011

The information contained within this document is furnished without warranty of any kind. Users should consider this data only as a supplement of other information gathered by them and make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees customers.