Safety Data Sheet according to (EC) No. 1907/2006 - ISO 11014-1

VESF Injection Adhesive

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Trade Name:	**VESF** (Vinyl Ester Styrene Free)
Intended use:	**Chemical Anchoring System**
Company:	Simpson Strong-Tie Ireland Ltd., Zweigniederlassung Deutschland, 64319, Pfungstadt, Germany
Chemical Name & Synonyms:	2 Component Chemical Anchor Grout containing Unsaturated Vinylester Resin and Dibenzoyl Peroxide
For Information:	(UK) +44-1827-255 600 / (GERMANY) +49-6157-9868-0
In an Emergency:	(UK) +44-1270-502891

2. HAZARDS IDENTIFICATION

Resin:	Irritating to eyes and respiratory system. May cause sensitisation by skin contact
Catalyst:	May cause sensitisation by skin contact.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Substance	CAS Number	Concentration range	Warning Symbol	Risk Phrases
Ethylene dimethacrylate	97-90-5	15-30%	Xi	R37, R43
2-Propenoic acid, 2-methyl-monoester with 1,2 propanediol	27813-02-1	15-30%	Xi	R36, R43
2-propanol, 1,1-(4-methylphenyl) imino)bis	38668-48-3	1-5%	T, Xi	R25, R36, R52/53
p-tert-butyl catechol	98-29-3	<1%	C, Xn	R21/22, R34, R43
Dibenzoyl Peroxide	94-36-0	10-30%	E, Xi	R2, R36, R43

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.
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, CO_2 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 in 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 sources of ignition.

Catalyst: Keep away from 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 metal compounds.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace exposure limits - None

Respiratory: Ensure good ventilation to minimise exposure to vapours.
Ingestion: Unlikely during normal use.
Skin Protection: Wear gloves at all times.
Eye Protection: Not 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, characteristic	Odour	Faint
Density	1.55kg/lt	Density	1.55kg/lt
Flash Point	90^{o}C	Flash Point	Above the SADT (50^{o}C)
Explosive Properties Properties	N/D	Oxidising Properties	Oxidising
Autoflammability	N/D	Autoflammability	>380^{o}C
Solubility	Partly soluble in water	Solubility	Insoluble 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

Resin: Reacts vigorously with strong oxidising agents and peroxides.
Catalyst: Violent reactions may be expected with acid, alkali, heavy metals and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators.

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 eye irritant and skin sensitiser, but 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 LD_{50} (rat) is 7710mg/m^3

Eye: Severe eye irritant

Skin: Irritation and redness may occur. The possibility of allergic sensitisation should be considered.

12. ECOLOGICAL INFORMATION

Do not discharge into drains or 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 or resin and catalyst may be reacted together, allowed to cure and disposed as solid waste.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

Labelling: Irritant

Risk Phrases:
R36/37 Irritating to eyes and respiratory system.
R43 May cause sensitisation by skin contact.

Safety Phrases
S2 Keep out of reach of children.
S24 Avoid contact with skin.
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.
R21/22	Harmful in contact with skin and if swallowed.
R25	Toxic if swallowed.
R37	Irritating to respiratory system.
R34	Causes burns
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Prepared By: A.Pawsey

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 information from all sources to ensure proper use and disposal of these material and the safety of employees and customers.

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