



MATERIAL SAFETY DATA SHEET

Based on Regulation (EC) No. 1907/2006 (REACH) Article 31 Annex II

POLYESTER RESIN (STYRENE FREE)

1. Identification of the substance / preparation and company/undertaking

1.1 Identification of the substance or preparation

J-FIX Polyester Resin (Styrene Free)

1.2 Use of the substance

Injection resin

1.3 Company undertaking preparation

JCP Construction Products
Unit 07 Princess Court, Horace Rd
Kingston, Surrey KT1 2SL
Tel +44 208 546 6545
Fax +44 208 546 6019
email jcpenquiries@owlett-jaton.com

1.4 Telephone number for emergencies

Tel +44 208 546 6545

2. Hazards Identification

Resin No significant hazard
Catalyst May cause sensitisation by skin contact

3. Composition/Information on Ingredients

Hazardous Ingredient	Cas No.	Conc. in %	Hazard Symbol	Risk Phrase
Vinyl Toluene	25013-15-4	10-20	F; Xi	R10; R20; R36/37/38
Dibenzoyl Peroxide	94-36-0	10-20	E;Xi	R2, R36, R43

4. FIRST AID MEASURES *(Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion)*

Eyes Irrigate with clean water for at least 15 mnts. Seek medical attention
Skin Remove contaminated clothing unless stuck to skin. Wash with copious amounts of soap water. If irritation persists, seek medical advise
Ingestion Do not induce vomiting. If conscious drink half a litre of water immediately of water. Seek medical advise.
Inhalation Move patient to fresh air and allow to rest. Seek medical attention if patient is slow to recover or unconscious

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

5. Fire fighting measures

Extinguishing Media Dry Powder, CO₂ and Alcohol Foam. **Not to be used:** Halones
Exposure Hazards Sealed containers heated can pressurise leading to explosion. Emits accrid black smoke and Irritating fumes when heated to decomposition
Fire Fighting Equipment Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

6. Accidental release measures

Personal precautions Refer to sections 5, 8 and 13 of MSDS for personal protection details
Environmental precautions Do not discharge into rivers or drains. Contain the spillage
Clean Up procedure Transfer to a closable, labelled salvage container for disposal by an appropriate method

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7. Handling and storage

Handling requirements Ensure there is sufficient ventilation in the area
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 i.e. amines, acids, alkalis, heavy metal compounds

8. Exposure controls/personal protection

Workplace Exposure Limits - None listed

Hazardous Substance	Long Term Exposure Limit 8 Hour TWA		Short Term Exposure Limit 15 minutes	
	ppm	mg/m ³	ppm	mg/m ³
Vinyl Toluene Recommended limits	100	430	250	1080
Dibenzoyl Peroxide	-	5	-	-

Respiratory If forced air extraction is not available in enclosed area then an organic vapour mask will be required if the recommended occupational exposure limits are 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	Thick Grey paste
Odour	Distinct Sweet	Faint
Density	1.60g/cm ³	1.45g/cm ³
Flash Point	53°C	Above the SADT (50°C)
Explosive properties	Lower limit 1.1% Upper limit 5.2%	-
Oxidizing properties	-	Oxidising
Autoflammability	575°C	>380°C
Solubility	Insoluble in water	Soluble in water

10. Stability and reactivity

Stability: Stable under normal conditions. May polymerise (solidify) exothermically if heated, exposed to air, sunlight or by the addition of free radical indicators. 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 if acid, alkalis, heavy metal and reducing agents. Avoid contact with rust. Do not mix with peroxide accelerators

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

Hazardous polymerisation Polymerisations in a closed container can give rise to pressure which may rupture the vessel

11. Toxicological information

Oral **Resin** Vinyl toluene is classified as harmful by inhalation. An LC50/4 hour (rat) is 3000mg/m³
Catalyst Material is classified as a sensitizer and may cause sensitization by skin contact. An LD50 (rat) is 7710mg/m³

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11. Toxicological information (cont.)

Inhalation - Resin	Lung irritant, can cause drowsiness and eventual unconsciousness. Do not breath fumes. Over exposure may cause fatigue and headache
Eye	Irritation and redness may occur.
Skin	Irritation and redness may occur.

12. Ecological information

Do not discharge into drains or the environment. Vinyl toluene is expected to biodegrade in a waste water treatment plant and is not expected to bioconcentrate in aquatic organisms

13. Disposal considerations

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

14. Transport information

Supply label Not classified as hazardous for transport

15. REGULATORY INFORMATION

Hazard symbols	No significant hazard	
Safety Phrases	S2 (S23) (S37/39)	Keep out of reach of children Do not breath vapour Wear suitable gloves and eye/face protection
Note	The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The users attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all national, international, and local regulations or provisions	

16. Other information

Risk Phrases	R20	Risk of explosion by shock, friction, fire or other sources of ignition
	R10	Flammable
	R20	Harmful by inhalation
	R36//37/38	Irritating to skin and eyes

The above information has been compiled from that provided by our suppliers and other sources. None of the original information relating to hazards or potential hazards has been omitted and so the absence of a particular reference merely implies either that such information has not been determined or that it is not applicable. Should amendments become necessary, these will be published in future issues. The above information 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 determination of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees and customers.