



MATERIAL SAFETY DATA SHEET

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

POLYESTER RESIN

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

1.1 Identification of the substance or preparation

J-FIX Polyester Resin

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

Main Hazards Flammable. Harmful by inhalation. Irritating to eyes and skin. May cause sensititation by skin contact

3. Composition/Information on Ingredients

Hazardous Ingredient	Cas No. EINECS No.	Conc. in %	Hazard Symbol	Risk Phrase
Styrene	100-42-5 202-851-5	10-25	Xn; Xi	R10; R20; R36/37/38
Dibenzoyl Peroxide	94-36-0 202-327-6	<2.5	E; Xi	R2; R36; R43

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

Eyes There may be irritation and redness
Irrigate with clean water for at least 15 mnts. Seek medical attention

Skin There may be irritation and redness at the site of contact
Remove contaminated clothing unless stuck to skin. Wash with copious amounts of soap and water. If irritation persists, seek medical advise

Ingestion There may be soreness and redness of the mouth and throat
Do not induce vomiting. If conscious drink half a litre of water immediately of water.
Seek medical advise.

Inhalation There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing. Drowsiness or mental confusion may occur.
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 Carbon Dioxide. Alcohol or polymer foam

Exposure Hazards Harmful. Flammable Forms explosive air-vapour mixture. In combustion emits toxic fumes of Carbon Monoxide / Carbon Dioxide

Fire Fighting Equipment Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

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6. Accidental release measures

Personal precautions	Refer to section 8 of SDS 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

7. Handling and storage

Handling requirements	Ensure there is sufficient ventilation in the area
Storage conditions	Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight
Suitable packaging	Must only be kept in original packaging

8. Exposure controls/personal protection

Hazardous Ingredients	TWA		STEL		Year	
	ppm	mg/m3	ppm	mg/m3		
Styrene	20	85	40	170	A4	1997
Dibenzoyl Peroxide		5			A4	1996

A4 Non classified as carcinogenic in humans

Engineering measures	Ensure there is sufficient ventilation in the area
Respiratory protection	Self contained breathing apparatus must be available in case of emergency
Hand protection	Protective gloves
Eye protection	Safety goggles. Eye bath must be available in event of emergency
Skin protection	Protective clothing

9. Physical/Chemical properties

Appearance	Thick coloured paste	Odour	Characteristic Odour
Colour	Brown	Relative density	1.65
Viscosity	Viscous	Boiling Range	145°C
Solubility in water	310mg/l	Flash Point	33°C
Also soluble in	Most organic solvents	Auto-Flammability	80°C
Flammability limits	Lower limit 1.1%. Upper limit 6.1%		
Vapour Pressure	6.52mb at 20°C (Styrene)		

10. Stability and reactivity

Stability:	Stable under normal conditions. May polymerise on exposure to light.
Conditions to avoid	Direct sunlight. Heat. Sources of ignition
Materials to avoid	Oxidising agents. Accelerators. Reducing agents. Acids. Alkalis. Peroxides
Hazardous decomp. prod.	In combustion emits toxic fumes of carbon dioxide/carbon monoxide

11. Toxicological information

Hazardous ingredients	DL50 Oral mg/kg	DL50 Cutaneous mg/kg	CL50 Inhalation mg/1.4hours
Styrene	2659 Rat		12 Rat
Dibenzoyl peroxide	7710 Rat		
Chronic Toxicity	Danger of serious damage to health by prolonged exposure through inhalation		
Route of exposure	Refer to section 4 of SDS for routes of exposure and corresponding symptoms		

12. Ecological information

Mobility	Insoluble in water. Heavier than water
Persistence and degradability	Expect to biodegrade in a waste water treatment plant
Bio accumulative potential	No bioaccumulation potential
Other adverse effects	Harmfull to aquatic organisms

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13. Disposal considerations

Disposal operations
N.B.

D1 Tipping above or underground (e.g. landfill)
The users attention is drawn to the possible existence of regional or national regulations regarding disposal

14. Transport information

Transport by road, Directive 94/55EC (ADR)	Free
Transport by rail, Directive 96/49EC (RID)	Free
Transport by sea, (IMDG)	Free
Transport by air, (ICAO/IATA)	Free

15. REGULATORY INFORMATION

EC Labelling; Xn

This product is FLAMMABLE and HARMFUL in accordance with Guideline 67/548EEC and 1999/45EC

R10 Flammable

R20 Harmful by inhalation

R36/38 Irritating to eyes and skin

R43 May cause sensitisation by skin contact

S3/7 Keep container tightly closed in a cool place

S14 Keep away from reducing agents, oxidizing agents, acids, alkalis, amines, metals, heavy metal compounds

S36/37/39 Wear suitable protective clothing, gloves, and protection for eyes, face

S51 Use only in well ventilated area

Dangerous ingredients; Styrene

Restrictions to the marketing and use in accordance with Directive 76/769EEC

Not applicable

Other regulations

Not available

16. Other information

Component A

Xn

This product is FLAMMABLE and HARMFUL in accordance with Guideline 67/548EEC and 1999/45EC

R10 Flammable

R20 Harmful by inhalation

R36/38 Irritating to skin and eyes

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise

S51 use only in well ventilated area

Dangerous ingredient; Styrene

Component B

O; Xn

This product is OXIDIZING and IRRITANT in accordance with Guideline 67/548EEC and 1999/45EC

R7 May cause fires

R36 Irritating to eyes

R43 May cause sensitization by skin contact

S3/7 Keep container tightly closed in a cool place

S14 Keep away from reducing agents, oxidizing agents, acids, alkalis, amines, metals, heavy metal compounds

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advise

S36/37/39 Wear suitable protective clothing, gloves, and protection for eyes, face

S60 Do not mix with accelerators or reducing agents.

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Text of R-Phrases listed in Section 2

R2	Risk of explosion by shock, friction, fire, or other sources of ignition
R10	Flammable
R20	Harmful by inhalation
R36	Irritating to eyes
R43	May cause sensitization by skin contact
R36/38	Irritating to eyes and skin

Main Data sources

European Chemicals Bureau: Existing Chemicals: <http://ecb.jrc/existing-chemicals/>

Industrial Solvents Handbook, Ilbert Mellan (Noyes Data Co., 1970)

Threshold Limit Values, (AGCIH)

European agreement on the international carriage of dangerous goods by road (ADR)

International Maritime Dangerous Goods Code IMDG (IMO)

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.