



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

JCP Construction Products
Unit 14, Teddington Industrial Estate
Teddington, Middlesex. TW11 9BQ
Tel +44 208 943 1800
Fax +44 208 943 1140

email jcpenquiries@owlett-jaton.com

1.4 Telephone number for emergencies

+44 208 943 1800 8.30 a.m. to 5.00 p.m. Monday to Friday

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification (1999/45/EEC) R10; Xn

Most important adverse effects

Flammable. Harmful by inhalation. Irritating to eyes and skin.

2.2 Label elements

Risk phrases: R10: Flammable

Safety phrases: S23: Do not breathe vapour
S24/25: Avoid contact with skin and eyes
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

Precautionary phrases:

P14: Contains dibenzoyl peroxide. May produce an allergic reaction.

3. Composition/Information on Ingredients

Mixtures

ETHENYLMETHYLBENZENE 10-20%

EC No.	Cas No.	Classification 67/548/EEC	CLP Classification
246-562-2	25013-15-4	R10; Xn: R20; Xi: R36/37/38	Flam. Liq.3:H226 Acute Tox.4: H332 Eye Irrit 2: H319 Skin Irrit 2: H315 STOT SE 3 H335

BENZOYL PEROXIDE 10-20%

EC No.	Cas No.	Classification 67/548/EEC	CLP Classification
94-36-0	202-327-6	R43 E: R3 O: R7 Xi: R36	Org. Perox. B-H241 Eye Irrit 2: H319 Skin Sens 1: H317

MATERIAL SAFETY DATA SHEET

POLYESTER RESIN -STYRENE FREE

4. First Aid Measures

4.1 Description of first aid measures

Inhalation	Move the exposed person to fresh air at once. Get medical attention if discomfort continues
Ingestion	NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Rinse mouth thoroughly. Get medical attention if any discomfort continues
Skin Contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if discomfort continues
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists seek medical attention and bring along these instructions

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	irritation of nose, throat and airway
Ingestion	May cause discomfort if swallowed
Skin Contact	May cause skin irritation/eczema
Eye Contact	Irritation of eyes and mucous membranes

4.3 Indication of any immediate medical attention and special treatment needed

Immediate/special treatment:	No recommendation given, but first aid may be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt GET MEDICAL ATTENTION PROMPTLY and show this sheet to attending medical personnel
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5. Fire fighting measures

5.1 Extinguishing Media	Carbon Dioxide. Alcohol or polymer foam. Dry chemical powder
5.2 Exposure hazards	Flamable. In combustion emits toxic fumes, (CO, CO2, Nox)
5.3 Advice for fire-fighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

6. Accidental release measures

6.1 Personal precautions	Refer to section 8 of SDS for personal protection details.
6.2 Environmental precautions	Do not discharge into water courses, drains or onto ground
6.3 Clean Up procedure	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
6.4 Reference to other sections	Refer to section 8 of SDS. Refer to section 13 of SDS.

7. Handling and storage

7.1 Handling requirements	Do not use in a confined spaces without adequate ventilation and/or respirator Avoid direct contact with the substance.
7.2 Storage conditions	Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition.
Suitable packaging	Must only be kept in original packaging
7.4 Specific end use(s)	* No special requirement Use as directed in section 1.2

MATERIAL SAFETY DATA SHEET

POLYESTER RESIN -STYRENE FREE

8. Exposure controls/personal protection

8.1 Control parameters

Name	STD	TWA-8Hrs	STEL-15Min
BENZOYL PEROXIDE	WEL	5 mg/m ³	

WEL = Workplace Exposure Limits

8.2 Exposure controls

Protective equipment



Engineering measures

Hand protection

Eye protection

Skin protection

Respiratory equipment

Hygiene measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours

Protective gloves are recommended

Safety goggles.

Protective clothing

May be required under exceptional circumstances where excessive air contamination exists

smoking and using the toilet. Wash skin promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. Physical/Chemical properties

Appearance	Liquid
Colour	Cream
Odour	Aromatic
Solubility	Insoluble in water
Initial boiling point and boiling range	>165°C
Melting point	not determined
Relative density	1.65-1.75
Vapour density (air=1)	not determined
Vapour pressure	not determined
Evaporation rate	not determined
pH-Value, Conc. Solution	not applicable
Viscosity	>60 S ISO2431
Solubility value	not applicable
Decomposition temperature	not determined
Odour Threshold, Lower	not determined
Odour Threshold, Upper	not determined
Flash point	53°C
Flammability limit-Lower(%)	1.1
Flammability limit-Upper(%)	5.2
Partition Coefficient (N-Octanol/Water)	not determined
Explosive properties	No information available
Oxidising properties	Does not meet the criteria for oxidising

10. Stability and reactivity

10.1 Reactivity	Reaction with Organic peroxides/hydroperoxides
10.2 Chemical stability	Stable under normal temperature conditions
10.3 Possible hazardous reactions	None under normal conditions
Hazardous Polymerisation	Not relevant
10.4 Conditions to avoid	Avoid excessive heat for prolonged periods of time
10.5 Incompatible materials	
Materials to avoid	Organic peroxides/hydroperoxides
10.6 Hazardous decomposition products	In case of fire, toxic gases (CO, CO ₂ , NO _x) may be formed

MATERIAL SAFETY DATA SHEET

POLYESTER RESIN -STYRENE FREE

11. Toxicological information

11.1 Information on toxicological effects

Inhalation	In high concentrations, vapours may irritate throat and respiratory system causing coughing
Ingestion	May cause discomfort if swallowed
Skin contact	Liquid may irritate skin
Eye contact	Irritating to eyes

Toxicological information on ingredients

BENZOYL PEROXIDE (CAS: 94-36-0)
ETHENYLMETHYLBENZENE (CAS: 25013-15-4)

Acute Toxicity (Oral LD50)	2255 mg/kg Rat
Acute Toxicity (Inhalation LC50)	3 mg/l (vapours) Rat 4 hours

12. Ecological information

Ecotoxicity Not regarded as dangerous for the environment

12.1 Toxicity

Ecological information on ingredients

Acute toxicity-Fish	BENZOYL PEROXIDE (CAS 94-36-0) LC50 96 hours 0.06 mg/l Onchorhynchus mykiss (Rainbow trout)
Acute toxicity-Aquatic invertebrates	EC50 48 hours 0.11 mg/l Daphnia magna
Acute toxicity-Aquatic plants	EC50 72 hours 0.07 mg/l Selenastrum capricornutum

Acute toxicity-Fish **ETHENYLMETHYLBENZENE (CAS 25013-15-4)**
LC50 96 hours 23.4 mg/l Pimephales promelas (Fat-head minnow)

12.2 Persistence and degradability

12.3 Bioaccumulative potential

Bioaccumulative potential No data available

Partition coefficient Not determined

Ecological information on ingredients

Partition coefficient **ETHENYLMETHYLBENZENE (CAS 25013-15-4)**
log Pow 3.36

12.4 Mobility in soil

Mobility Not relevant, due to the form of the product

12.5 Results of PBT and vPvB assessment

product does not contain any PBT or vPvB substances

12.6 Other adverse effects

Not applicable

13. Disposal considerations

13.1 Waste treatment methods

Residue and empty containers should be taken care of as hazardous waste according to local and national provisions

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14. Transport information

14.1 UN Number

UN no. (ICAO) 1866

14.2 UN proper shipping name

Proper shipping name RESIN SOLUTION

14.3 Transport hazard class(es)

ADR/RID/AND Class Exempt C1 2.2.3.1.5
IMDG Class Exempt IMDG Code Clause 2.3.2.5
ICAO Class/Division 3
Transport Labels



14.4 Packing group

ICAO Packing group III

14.5 Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No

14.6 Special precautions for users

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Guidance Notes Workplace Exposure Limite EH40

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Regulation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directive 91/155/EEC, 93/67/EEC, 93/105/EC, and 200/21/EC, including amendments.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

16. Other information

Revision comments

Revision date 25/10/136

Revision 1

Risk Phrases used in full

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition
R7 May cause fire
R10 Flammable
R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, respiratory system and skin.

Hazard statements in full

R43 May cause sensititation by skin contact
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H226 Flammable liquid and vapour
H332 Harmful if inhaled.
H241 Heating may cause fire or explosion
H317 May cause allergic skin reaction
H335 May cause respiratory irritation

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Such information is, to the best of the company's knowledge and believe, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.