SAFETY DATA SHEET

JEM 3X RESIN LIQUID PACK

ISSUE DATE: **8th December 2021**

Section 1 : Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

JEM 3X resin - liquid pack
UFI 3NY4-K24K-631Y-RCUY

1.2 Relevant identified uses of the substances or mixture and uses advised against

Component of encapsulating medium for power cable joints

1.3 Details of the supplier of the safety data sheet

Company information:	Prysmian Cables and Systems Ltd Oak Road, Wrexham Industrial Estate, Wrexham LL13 9PH
Telephone:	+44 (0)1978 66 2375
e-mail:	dave.lamb@prysmian.com

1.4 Emergency telephone number: +44 (0)1978 66 2216

Section 2 : Hazards identification

This product is a mixture

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (EU "CLP" Regulation):
Classified as hazardous.

Irritation of skin	Hazard Category 2	H315
Eye irritation	Hazard Category 2	H319
Specific Target Organ Toxicity Single Exposure	Hazard Category 3	H335

Classification according to UK CHIP Regulations / Directives 1999/45/EC or 67/548/EC:
Not classified as hazardous.

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 (EU "CLP" Regulation):

Signal Word: Warning

GHS Pictogram:

Hazard Statement:	Causes skin irritation (H315) Causes serious eye irritation (H319) May cause respiratory irritation (H335)
Precautionary Statement (Prevention):	Avoid breathing dust/fume/gas/mist/ vapour/spray Wear protective gloves/protective clothing/eye protection
Precautionary Statement (Response):	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Precautionary Statement (Disposal):	Dispose of contents/container in accordance with local regulation

Remarks: Testing to international protocols at independent test houses has shown that JEM liquid is not irritating to eyes and skin nor is it a skin sensitiser. The latter results coupled with the very low vapour pressure would also indicate that it is unlikely to be a respiratory irritant or sensitiser. (See Section 11)

Labelling according to UK CHIP Regulations / Directives 1999/45/EC or 67/548/EC , therefore, was not required

2.3 Other hazards

Polymerisation with heat evolution may occur in the presence of peroxides, reducing substances and/or heavy metal ions.

Section 3 : Composition / information on ingredients

This product is a mixture

Chemical Name	REACH Registration Number	CAS Number	EINECS / ELINCS	Hazard Class/Category/Statement	Concentration
Isodecylmethacrylate	01-2118949925-17-2003	29964-84-9	249-978-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	97.9%
Ethanol, 2,2'[(4-methylphenol)imino] bis-		3077-12-1	221-359-1	Acute Tox. Oral 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	1.2%
Polyacrylate oligomer				Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE; H335	0.9%

Section 4 : First aid measures

4.1 Description of first aid measures

General information: Remove contaminated clothing immediately. Wash before re-use.
Inhalation: Remove to fresh air, provide warmth and rest. If necessary, seek medical attention.
Skin Contact: Wash contaminated skin with soap and water. If necessary, seek medical attention.
Ingestion: Do not induce vomiting. Drink plenty of water and if necessary seek medical attention.
Eye Contact : Flush with large amounts of water. If necessary, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No specific effects and/or symptoms have been reported or are known

4.3 Indication of any immediate medical attention and special treatment needed

No data available

Section 5 : Firefighting measures

5.1 Extinguishing media

Carbon dioxide, foam or dry powder

5.2 Special hazards arising from the substance or mixture

Decomposes to give carbon dioxide, carbon monoxide and water. Cool endangered vessels with water

5.3 Advice for firefighters

Wear self contained breathing apparatus

Section 6 : Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

This material is not classified as hazardous to health but exposure should be minimised. Remove personnel from areas of substantial spillage.

6.2 Environmental precautions

Prevent product from entering drains / surface water / ground water

6.3 Methods and material for containment and cleaning up

Contain the spillage and absorb using earth, sand or other absorbent material. Particulate materials such as SAFFIRE (supplied by Zeppelin and Co) have been found to be particularly effective and may be incinerated for disposal purposes. The recommended disposal route is incineration. Alternatively, liquid spillages may be mopped up with the powder component of the resin pack. After curing, the residue may be disposed of as general waste.

6.4 Reference to other sections

See Section 13 for disposal information.

Section 7 : Handling and storage

7.1 Precautions for safe handling

Use in a well ventilated area.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool dry location. Avoid prolonged exposure to sunlight. Maximum recommended storage temperature is 40^0C. There is no lower limit on storage temperature.

7.3 Specific end use(s)

See Section 1.2

Section 8 : Exposure controls / personal protection

8.1 Control parameters

No occupational exposure limits have been assigned to this material.

8.2 Exposure controls

Observe normal safety and hygiene standards Wear suitable overalls and gloves (nitrile or neoprene)

Section 9 : Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	clear yellowish liquid
Odour:	slight ester like
Odour threshold:	no data available
pH:	not applicable
Melting point:	not applicable (liquid).
Boiling point:	>250 ^{o}C
Flash point:	115^{o}C (Closed Cup)
Evaporation rate:	no data available
Flammability	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	4.8 Pa @ 25^{o}C
Vapour density	>1 @ 20^{o}C (relative to air)
Relative density	0.88 g/cm^{3} @ 20^{o}C
Solubility in water:	Insoluble
Solubility in other ingredients:	Miscible with most organic solvents
Partition coefficient Octanol/water:	log P_{ow} 4.92
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity (dynamic):	3.2 mPas @ 20^{o}C
Explosion properties:	no data available
Oxidising properties:	not oxidising.

9.2 Other information

No additional data available

Section 10 : Stability and reactivity

10.1 Reactivity

Not reactive to materials commonly used in the transportation, handling and storage of industrial materials.

10.2 Chemical stability

Stable at room temperature and temperatures up to 60ºC

10.3 Possibility of hazardous reactions

Will polymerise exothermically when mixed with radical forming substances such as peroxides. Maximum exothermic temperature is 55ºC.

10.4 Conditions to avoid

Avoid prolonged exposure to direct sunlight.

10.5 Incompatible materials

Strong oxidising and reducing agents

10.6 Hazardous decomposition products

None when used as directed

Section 11 : Toxicological information

11.1 Information on toxicological effects

Acute toxicity	no data available
Skin Corrosion / Irritation	Skin irritancy has been investigated (for isodecyl methacrylate) using OECD Test Method 404. Single 4 hour application to rabbit skin produced minimal signs of irritation.
Eye Corrosion / Irritation	Eye irritancy has been investigated (for isodecyl methacrylate) using OECD Test Method 405. Single application to rabbit eye produced minimal conjunctival irritation.
Sensitisation Data	Skin sensitisation has been investigated (for the liquid blend)using OECD Test Method 406. No evidence of skin sensitisation was detected. There are no known reports of respiratory sensitisation.
Repeated dose toxicity	no data available
Carcinogenicity	no data available
Mutagenicity	no data available
Toxicity for reproduction	no data available

Section 12 : Ecological information

12.1 Toxicity

No data available

12.2 Persistence and biodegradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

Section 13 : Disposal considerations

13.1 Waste treatment methods

Product: Waste incineration with the approval of the responsible local authority.

Packaging: Plastic containers may be disposed of by approved landfill if contaminated by cured material. Uncontaminated packaging (i.e. the external plastic container for two part kits) may be re-granulated for further use.

Section 14 : Transport information

14.1 UN Number

Not regulated under transport regulation.

14.2 UN proper shipping name

Not regulated under transport regulation.

14.3 Transport hazard class(es)

Not regulated under transport regulation.

14.4 Packing group

Not regulated under transport regulation.

14.5 Environmental hazards

Not regulated under transport regulation.

14.6 Special precautions for user

None identified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

No data available

Section 15 : Regulatory information

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

The Workplace exposure Limit given in section 8 has been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

EU Directive 67/548/EEC ('Dangerous Substances Directive')

Regulation (EC) No 1907/2006 ('REACH')

Regulation (EU) No 453/2010.

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

None applicable

15.2 Chemical safety assessment

A chemical safety assessment has not been undertaken for this mixture

Section 16 : Other information

Risk Phrases / Hazard Statements (Ref: Section 3):

Isodecyl methacrylate

H315 Causes Skin Irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Ethanol, 2,2'[(4-methylphenol)imino] bis-

H302 Harmful if swallowed
H315 Causes Skin Irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

This SDS (version 1.0) is the first version of this SDS for this product.

This information is believed to be accurate and represents the best information available to the company at this time. This information is provided as a guide to the hazards and respective safety precautions relevant to this product. This SDS does not represent any guarantee of performance or specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein