SAFETY DATA SHEET

SEMI CONDUCTING VARNISH

ISSUE DATE: **19th January 2022**

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

1.1 Product identifier

Conductive varnish
UFI RPR0-Y8JR-NP0R-JYC2

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

Component of medium voltage cable joints and terminations

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 under CLP:	Flam.Liq. 3:	H226
	Acute Tox. 4:	H332
	Eye Irrit. 2:	H319
	STOT SE 3:	H335

For the full text of H statements mentioned in this section, see section 16

2.2 Label elements

Label elements under CLP:

Hazard Statements:	H226	Flammable liquid and vapour
	H319	Causes serious eye irritation
	H332	Harmful if inhaled
	H335	May cause respiratory irritation

Hazard Pictograms: GHS07: Exclamation mark

GHS02: Flammable

Signal Word: WARNING

Precautionary Statements:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P261	Avoid breathing vapour / spray
	P264	Wash contaminated skin thoroughly after handling
	P280	Wear protective gloves / protective clothing / eye protection / face protection
	P303+P351+P353	IF ON SKIN (or hair) Immediately take off all contaminated clothing. Rinse skin with water / shower.
	P305+P351+P338	IF IN EYES Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do. Continue rinsing.

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB

Section 3 : Composition / information on ingredients

This product is a mixture

Chemical Name	REACH Registration Number	CAS Number	EC Number	CLP Classification	Content
4-methylpentane-2-one	01-2119473980-30-XXXX	108-10-1	203-550-1	Flam.Liq. 2 - H225 Acute.Tox. 4 - H322 Eye Irrit. 2 - H319 STOT SE 3 - H370	60-100%
Methanol	01-2119433307-44-XXXX	67-56-1	200-659-1	Flam.Liq. 2 - H225 Acute.Tox. 3 - H301 Acute.Tox. 3 - H311 Acute.Tox. 3 - H331 STOT SE 1 - H370	<1%

For the full text of H statements mentioned in this section, see section 16

Section 4 : First aid measures

4.1 Description of first aid measures

Inhalation: Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing. Get medical attention. Place unconscious person in recovery position to ensure breathing can take place.
Ingestion: Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink but do not induce vomiting. Place unconscious person in recovery position to ensure breathing can take place. Keep person under observation and get medical attention.
Skin: Rinse with water.
Eye: Rinse with water. Remove contact lenses if present and easy to do. Continue rinsing and get medical attention if any discomfort continues.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: A single exposure may cause headaches, exhaustion and weakness
Ingestion: No specific symptoms known
Skin: No specific symptoms known
Eye: Irritating to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Section 5 : Firefighting measures

5.1 Extinguishing media

Extinguish with alcohol resistant foam, carbon dioxide, dry powder or water mist. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Contains may burst when heated due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, hot surface or ember. Vapours may form explosive mixtures with air. Decomposition may result in evolution of toxic gases / vapours.

5.3 Advice for fire-fighters

Cool containers exposed to flames with water. Prevent run-off water from entering water courses.
Were positive pressure self-contained breathing apparatus and appropriate protective clothing. Fire-fighters clothing should conform with European Standard EN469

Section 6 : Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection if ventilation is inadequate.

6.2 Environmental precautions

Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

6.3 Methods and material for containment and cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Provide adequate ventilation. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

6.4 Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

Section 7 : Handling and storage

7.1 Precautions for safe handling

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store away from incompatible materials (see Section 10). Store locked up. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

7.3 Specific end use(s)

See Section 1.2

Section 8 : Exposure controls / personal protection

8.1 Control parameters

Workers - Inhalation; Short term systemic effects, local effects: 208 mg/m^3
Workers - Inhalation; Long term local effects, systemic effects: 83 mg/m^3
Workers - Dermal; Long term systemic effects: 11.8 mg/kg/day
General population - Inhalation; Short term local effects, systemic effects: 155.2 mg/m^3
General population - Inhalation; Long term local effects, systemic effects: 14.7 mg/m^3
General population - Dermal; Long term systemic effects: 4.2 mg/kg/day

8.2 Exposure controls

Protective Equipment:

Appropriate engineering controls	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	For users with sensitive skin, it is recommended that suitable protective gloves are worn.
Other skin and body protection	Wear appropriate clothing to prevent repeated or prolonged contact
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

Environmental controls Keep container tightly sealed when not in use. Emissions from ventilation or work processequipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 : Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Slightly viscous black liquid
Odour:	Ketone
Odour threshold:	Data not available
pH:	not applicable
Melting point:	not applicable
Boiling point:	116 ^{o}C
Flash point:	14 ^{o}C (Closed Cup)
Evaporation rate:	Data not available
Flammability	
Upper/lower flammability or explosive limits	Data not available
Vapour pressure	7 mbar @ 20^{o}C
Vapour density	Date not available
Relative density	Data not available
Solubility in water:	Insoluble
Solubility in other ingredients:	Data not available
Partition coefficient Octanol/water:	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity (dynamic):	Data not available
Explosion properties:	Data not available
Oxidising properties:	Data not available

9.2 Other information

No additional data available

Section 10 : Stability and reactivity

10.1 Reactivity

See the other subsections of this section for further details.

10.2 Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3 Possibility of hazardous reactions

The following materials may react strongly with the product: Oxidising agents

10.4 Conditions to avoid

Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented

10.5 Incompatible materials

Oxidising materials. Acids - oxidising.

10.6 Hazardous decomposition products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

Section 11 : Toxicological information

11.1 Information on toxicological effects

Acute toxicity	Data not available
Skin Corrosion / Irritation	Data not available
Eye Corrosion / Irritation	Data not available
Sensitisation Data	Data not available
Repeated dose toxicity	Data not available
Carcinogenicity	Data not available
Mutagenicity	Data not available
Toxicity for reproduction	Data not available

Section 12 : Ecological information

12.1 Toxicity

Acute toxicity - fish	LC50, 96 hours: 600 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC50, 48 hours: 170 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC50, 96 hours: 400 mg/l, Pseudokirchneriella subcapitata

12.2 Persistence and biodegradability

The product is readily biodegradable

12.3 Bioaccumulative potential

Data not available

12.4 Mobility in soil

Data not available

12.5 Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6 Other adverse effects

None known

Section 13 : Disposal considerations

13.1 Waste treatment methods

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

Section 14 : Transport information

14.1 UN Number

UN No. (ADR/RID)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263
UN No. (ADN)	1263

14.2 UN proper shipping name

Paint related material

14.3 Transport hazard class(es)

ADR/RID class	3
ADR/RID	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels

14.4 Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6 Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (D/E)

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

Not applicable

Section 15 : Regulatory information

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006

Relevant regulations:

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

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

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment
Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

Section 16 : Other information

Full text of H Statements referred to in Sections 2 and 3:

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H370 Causes damage to organs

This SDS is the second 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.