Material Safety Data Sheet

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name: Wirelock/Paralock Rope Capping Kit

Company: Millfield Enterprises (Manufacturing) Limited
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2 COMPOSITION/INFORMATION OF INGREDIENTS

Product Description: Unsaturated polyester resin, dissolved in styrene containing low levels of inhibitors to prevent premature polymerisation. The solid portion of the kit contains less than 1% of Benzoyl Peroxide and does not have any significant health hazards apart from the fact that, as a powder, it may be irritating to the eyes and respiratory system.

Ingredients:	Styrene	CAS No:	100-42-5
Risk Phases	R10, R20, R36/38	EINECS:	202-851-5
Safety Phases:	S23, S24/25, S26, S36/37/39	Concentration: 32% approx	
Classification/Symbol:	Harmful Xn		

3 HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation. Irritating to eyes and skin. This product may present a possible environmental hazard.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth.

Eye Contact: Irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart.

Skin Contact: Remove contaminated clothing, wash skin thoroughly with soap and water or use a proprietary skin cleanser. Do not use solvents.

Ingestion: If accidentally swallowed, DO NOT INDUCE VOMITING, keep at rest and obtain medical attention.

General: In all cases of doubt, or where symptoms persist, seek medical attention.

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MANUFACTURERS OF WIRELOCK AND PARALOCK ROPE CAPPING COMPOUNDS

WIRELOCK®

5. FIRE FIGHTING MEASURES

Special Fire/ Explosive Hazard:	Vapours from this product may be ignited by naked flames, sparks, heaters, electrical equipment, static discharges, and other sources of ignition. Vapours can form explosive mixtures with air, particularly in empty, uncleaned receptacles. Heating of containers will cause pressure rise with risk of bursting and subsequent explosion. Cool intact containers with water spray.
Products of combustion:	Dense black acrid smoke, containing hazardous products of decomposition.
Extinguishing Media:	Foam or dry powder.
Protective Equipment:	Firefighters and others likely to be exposed to vapours should wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:	Avoid contact with skin and eyes. Beware of fire risk. Do not smoke. Wear suitable protective equipment including solvent resistant rubber or plastic gloves and goggles.
Environmental Precautions:	Remove all sources of ignition. Ventilate area. Do not allow to enter drains or sewers.
Methods Of Cleaning Up:	Contain and collect spillage with non-combustible absorbent material, e.g. sand. (See section 13).

7. HANDLING AND STORAGE

Precautions For Safe Handling:	Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours. Ensure good general ventilation in the workplace with the addition of local exhaust ventilation as required. Use only in areas from which all sources of ignition have been excluded. Prevent the risk of ignition from static discharge. Avoid accumulation of dry residues, contaminated rags etc. to prevent risk of spontaneous combustion. All resins are capable of burning and can give off flammable vapours.
Conditions Of Storage:	Store in original containers at temperatures not exceeding 20 deg. C, in a well ventilated area away from sunlight and sources of ignition. Storage should be in accordance with the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Special protective measures:

Hand: Solvent resistant rubber or plastic gloves.

Eye: Goggles conforming to BS 2092.

Skin: Apron if risk of splashing onto clothing, and boots.

Occupational Exposure Limits

Substance	8hr. TWA (1)		10 min STEL (2)		Comments
	ppm	mg/m(3)	ppm	mg/m(3)	
Styrene	100	420	250	1050	MEL (3)

Notes:
(1) Long term exposure limit, 8 hour time weighted average reference period
(2) Short term exposure limit, 10 minute reference period
(3) Maximum exposure limit

These exposure limits should not be exceeded. For further information on occupational exposure limits see Guidance Note EH40 published by the Health & Safety Executive Also see Guidance Note EH42 "Monitoring strategies for toxic substances".

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale coloured liquid.
Odour: Characteristic
Flash Point: 31°C approx. (closed cap)
Solubility: Insoluble in water. Soluble in organic solvents.

10. STABILITY AND REACTIVITY

Stability: The product is supplied with the addition of inhibitors to prevent premature polymerisation, provided the recommended storage conditions are adhered to. (See section 7).

Reactivity: The product is designed to polymerise under controlled conditions upon the addition of recommended catalysts and accelerators. Uncontrolled exothermic polymerisation can occur under certain circumstances. In sealed containers, this could result in build-up of pressure and risk of subsequent explosion and fire.

Conditions/Materials to avoid: Avoid contact with oxidising agents, amines, acids and metal salts as these can promote polymerisation. Prevent exposure to UV radiation, e.g. from fluorescent tubes, as this may initiate slow polymerisation which can continue in re-sealed containers. The product must not be stored at temperatures exceeding 20°C as this could also cause polymerisation.

11. TOXICOLOGICAL INFORMATION

Scientific Data:	This product has not been tested for toxicity but due to the styrene content it is classified as "Harmful" and the toxicological properties given below are those of styrene.
Eye Contact:	The vapour is irritating and splashes of liquid will cause discomfort and possible damage.
Skin Contact:	Prolonged contact will have a defatting effect which may lead to irritation and possible dermatitis.
Inhalation:	Over-exposure to vapours may cause irritation to the respiratory system. Excessive concentrations may produce effects on the central nervous system such as drowsiness, leading to loss of consciousness in extreme cases.

12. ECOLOGICAL INFORMATION

Assessment	Evidence suggests it is unlikely that this material will present a serious environmental hazard.

13. DISPOSAL CONSIDERATIONS

Statutory Provisions:	Synthetic resins are subject to the provision of the Environment Protection Act 1990, the Environment Act 1995 and legislation made thereunder such as the Special Waste Regulations 1996. Disposal should be in accordance with these and any regulations in force.
Disposal:	Advice concerning disposal should be sought from the Local Authority, but as a guide, liquid residues should be sent for incineration and spillage absorbed onto inert materials such as sand should be landfilled. Receptacles containing residues present a potential fire and explosion hazard.
Empty Containers:	Non-returnable empty drums should be sent to authorised operators for reconditioning or scrap.

14. TRANSPORT INFORMATION

UK Road/Rail		
Classification:	Flammable Liquid	SI Number: 3269
Packaging Group:	III	
IMO		
Class:	3.3	Packaging Group: III
IMDG Page:	3377-1	UN Number: 3269
AIR		
ICAO/IATA Class:	3	
Packaging Group Air:	III	

15. REGULATORY INFORMATION

This product is classified and labelled for supply in accordance with the provisions of the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 as amended.

EC Label

Flammable

Harmful

Contains Styrene

R10 Flammable

R20 Harmful by inhalation

R36/38 Irritating to eyes and skin

S23 Do not breathe vapour

The provisions of the Health & Safety at Work etc. Act 1974 and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

Provision of this sheet does not constitute an assessment of workplace risk as required by other health & safety legislation.

16. OTHER INFORMATION

The information given in this safety data sheet is based on current knowledge. However, should the company become aware of any additional information which is considered to be of relevance then a replacement sheet, incorporating the necessary amendments will be issued.

If this material is further distributed then this health and safety information should be passed to all users of the material.

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