

TECHNICAL HEALTH AND DATA SHEET

PRODUCT:- PATENT KNOTTING

REFERENCE:- V/604/13

COLOUR:- TRANSLUCENT BROWN

FINISH:- GLOSS

TYPE:- MODIFIED SHELLAC

TYPICAL SG:- 0.93 AT 20°C

TYPICAL VISCOSITY:- 23 SECS BS 1733 FLOW CUP AT
25°C

TYPICAL TOTAL SOLIDS:- 34.5%

FLASH POINT:- APPROX. 12°C

RECOMMENDED THINNERS:- V/607/6

APPLICATION:- BY BRUSH

*COVERAGE GUIDE:- 14 SQ. METRES/LITRE

*DRYING TIME:- SURFACE DRY - 10 MINS
THROUGH DRY -3 HOURS

USES:- FOR SEALING RESINOUS KNOTS
IN WOOD

HEALTH & SAFETY:- SEE SHEET HSD 'I'

*BY BRUSH TO A DRIED FILM THICKNESS OF 20-25 MICRONS AT 20°C.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 1 of 8

1. IDENTIFICATION OF THIS PREPARATION.

Product name:- PATENT KNOTTING
Intended use:- AS A SEALER FOR KNOTTED AND RESINOUS AREAS
OF TIMBER.
Company:- COO-VAR
LOCKWOOD STREET
HULL HU2 0HN
Telephone:- 01482-328053 Fax:- 01482-219266
Emergency contact:- as above.

2. COMPOSITION/INFORMATION ON INGREDIENTS.

Substances presenting a health hazard within the meaning of the Chemicals (Hazard Information and Packaging) Regulations 1993.

<u>NAME</u>	<u>CONC. RANGE%</u>	<u>SYMBOL LETTER</u>	<u>R-PHRASES*</u>
ISOPROPANOL	>50	Xi	11,36

*for full text see section 16

3. HAZARDS IDENTIFICATION

Highly Flammable.
Irritating to eyes.
(also refer to Section 11)

4. FIRST AID MEASURES

GENERAL:

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

INHALATION:

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration, Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

EYE CONTACT:

Contact lenses should be removed. Irrigate copiously with clear, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

SKIN CONTACT:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. DO NOT use solvents or thinners.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 2 of 8

INGESTION:

If accidentally swallowed obtain immediate medical attention.

Keep at rest. DO NOT induce vomiting.

5.FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA:

Recommended:- Alcohol-resistant foam, CO₂, powder, water spray/mist.

Not to be used:- water jet.

RECOMMENDATIONS:

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

6.ACCIDENTAL RELEASE MEASURES.

Exclude sources of ignition and ventilate the area.

Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Section 7 and 8. Contain and collect spillages with non-combustible materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses.

Clean preferably with a detergent; avoid the use of solvents.

If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

7.HANDLING AND STORAGE

HANDLING:

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 3 of 8

HANDLING cont.

Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Non sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour (and spray mist). Smoking, eating and drinking should be prohibited in areas of storage and use. For Personal protection, See section 8.

Never use pressure to empty; the container is not a pressure vessel. Always keep in containers made of the same material as the supply container. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards.

The Manual Handling Operations Regulations may apply to the handling of containers of this product. Refer to the guide indicated on the container when carrying out assessments (5 litres will not exceed 5 kilos).

STORAGE:

Store in accordance with the conditions of the licence which is necessary under the Petroleum (Consolidation) Acts.

Further guidance is contained in the HSE guidance note "Storage of Flammable Liquids in Containers".

The principles contained in the H.S.E. guidance note "Storage of Packaged Dangerous Substances" should be observed when storing this product.

Observe the label precautions. Store between 5 and 25°C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 4 of 8

EXPOSURE CONTROLS/PERSONAL PROTECTION.

ENGINEERING MEASURES.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/ or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (see "Personal Protection" below)

EXPOSURE LIMITS

OCCUPATIONAL EXPOSURE LIMITS.

SUBSTANCE	8Hr TWA	15MIN STEL	NOTATION
ISOPROPANOL	400 ppm (980 mgm/m ³)	500 ppm (1225mgm/m ³)	SK
RESPIRABLE PARTICULATES	5 mgm/m	Applicable for spray application of this product.	
IHNALABLE PARTICULATES	10mgm/m		

Notes:

- (1) Long term exposure limit- 8 hour time weighted average.
 - (2) Short term exposure limit - 15 minute reference period.
- OELs are taken from the current version of EH 40.
- (3) Sk indicates a risk of absorption through the skin.

PERSONAL PROTECTION.

All personal protection equipment, including respiratory protection equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

RESPIRATORY PROTECTION:

If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory equipment should be worn. Air-fed respiratory protective equipment should be worn when this product is sprayed. This should be in addition to other measures to reduce exposure (e.g. in both design and operation and process modifications). Non-essential and unprotected people should be excluded from the area if exposure is possible.

HAND PROTECTION:

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 5 of 8

EYE PROTECTION:

Eye protection designed to protect against liquid splashes should be worn.

SKIN PROTECTION:

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical state: Brown Liquid.

Flash point: 12°C approximately (closed cup)

Viscosity: 23 secs at 25°C (BS 1733 Flow Cup)

Specific gravity: 0.91 approximately at 20°C

Vapour density: Heavier than air

Minimum explosive concentration (L.E.L.): 30g/m

Solubility in water: Insoluble

Minimum ignition energy: 5-20 mJ

Minimum ignition temperature: 400°C

10. STABILITY AND REACTIVITY

Stable under the recommended storage and handling conditions.

(See Section 7).

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly acidic materials to prevent the possibility of exothermic reaction.

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself.

(Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.) Ingestion may result in the following effects: sore throat, abdominal pains, drowsiness, nausea, vomiting and diarrhoea. Other effects may be as described for exposure to vapours.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 6 of 8

12.ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

13.DISPOSAL CONSIDERATIONS.

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

(Using the information provided in this safety data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply).

14.TRANSPORT INFORMATION.

UK ROAD/RAIL CLASSIFICATION:FLAMMABLE LIQUID SI NUMBER 1263

PACKING GROUP:111

Ensure drivers have adequate training.

I.M.O. CLASS 3.3 PACKING GROUP 111 UN NUMBER 1263

MARINE POLLUTANTS - YES

SHIPPING NAME:- PAINT PRODUCT.

References for the appropriate information:-

- a) For road transport in Great Britain, in accordance with the requirements of the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations, the Road Traffic (Carriage of Dangerous Substances in Packages etc.) Regulations and the Road Traffic (Carriage of Dangerous Substances in Road Tankers and Tank Containers) Regulations.
- b) For rail transport in Great Britain, in accordance with the Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations and the Carriage of Dangerous Goods by Rail Regulations.
- c) For international rail/road transport in Europe, in accordance with the RID and ADR Recommendations (current editions). For further guidance refer to the CEPE Guide: The international movement of paint and allied products by road and rail".

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 7 of 8

TRANSPORT INFORMATION cont.

d) For transport by sea within the United Kingdom or internationally, in accordance with the Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations. For further guidance refer to the CEPE Guide: "The shipment of paint and allied products by sea".

e) For transport by air within the United Kingdom or internationally, in accordance with the Air Navigation (Dangerous Substances) Regulations.

15.REGULATORY INFORMATION.

The product is classified and labelled for supply according to the chemicals (Hazard Information and Packaging) Regulations as follows:

SYMBOL: F - Highly Flammable.

Xi - Irritant, contains Isopropanol.

Irritating to eyes.

Keep away from sources of ignition. No smoking.

Keep container tightly closed.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Use only in well ventilated areas.

Avoid contact with eyes.

The information contained in the safety data sheet does not constitute the user's own assessments of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16.OTHER INFORMATION.

Text of R-Phrase listed in Section 2:

R11 - Highly Flammable

R36 - Irritating to eyes.

The information contained in this safety data sheet is provided in accordance with the requirements of the CHIP Regulations.

SAFETY DATA SHEET I

Product:- PATENT KNOTTING REF:- V/604/13

Date of issue:- 31.7.95

Issue No 2

Page 8 of 8

OTHER INFORMATION cont.

The product should not be used for purposes other than shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:-

The Control of Substances Hazardous to Health
Regulations 1994

The Manual Handling Operations Regulations 1992
(SI 1992:2793)

Environmental Protection Act 1990.

The Environmental Protection (Duty of Care)
Regulations 1992 (SI 1992:2839)

Collection and Disposal of Waste Regulation 1988 (SI1991:2839)

The Provision and Use of Personal protection Equipment Regulations 1992 (SI1992:2932)

(P.P.E. at Work Regulation (NI) 1993 SS20 (NID)

Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI1994:3247)

V/604/13 SAFETY

The information given on this technical data sheet is correct to the best of our knowledge. Due to the policy of continuous improvement and modernisation to the product range some of the details may be subject to alteration without notice. If in any

doubt please contact

01925 752226.

The details shown are of a technical nature and are not designed as instructions for use. For this information please read and understand details given on the containers and the relevant product brochures.

Should you require any information contact your stockist