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Barrettine Patent Knotting

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SAFETY DATA SHEET

Patent Knotting Fluid

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

1.1. Product identifier

Product name Patent Knotting Fluid

Product number POPK.25, POPK.50, POPK002

SDS No: 10087

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Seals knots and resinous timbers.

Uses advised against Any use other than those identified.

1.3. Details of the supplier of the safety data sheet

Supplier

Barrettine
Barrettine Works
St Ivel Way
Warmley
Bristol
BS30 8TY
Tel: 0117 960 0060
Fax: 0117 935 2437
sales@barrettine.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1270 502891

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Flam. Liq. 2 - H225

Health hazards

Eye Irrit. 2 - H319

Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

F;R11.

Human health

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

Environmental

The product contains a substance which may cause long-term adverse effects in the aquatic environment.

Physicochemical

The product is highly flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

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Pictogram


Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash contaminated skin thoroughly after handling.
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with national regulations.

Contains isopropanol, BUTANONE

Supplementary precautionary statements

P233 Keep container tightly closed.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately 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.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANOL	**30-60%**
CAS number: 64-17-5 **EC number:** 200-578-6 **REACH registration number:** 01-2119457610-43-XXXX	
Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 2 - H225	F;R11

BUTANONE	**<3%**
CAS number: 78-93-3 **EC number:** 201-159-0 **REACH registration number:** 01-2119457290-43-XXXX	
Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	F;R11 Xi;R36 R66 R67

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isopropanol	**<3%**
CAS number: 67-63-0 **EC number:** 200-661-7 **REACH registration number:** 01-2119457558-25-XXXX	
Classification	**Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 2 - H225 Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336 Eye Irrit. 2 - H319 STOT SE 3 - H336	F;R11 Xi;R36 R67

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Clean nose and mouth with water. If unconscious or breathing is irregular artificial respiration may be administered by suitably qualified first-aiders. If symptoms persist, get medical attention. Get immediate medical attention.

Ingestion

Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Get medical attention promptly if symptoms occur after washing.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with the following media: Water spray, fog or mist. Alcohol-resistant foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Specific hazards

The product is highly flammable. Vapours may form explosive mixtures with air. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Move containers from fire area if it can be done without risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

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Environmental precautions

Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Keep combustible materials away from spillage. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Do not wear contact lenses. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Eye wash facilities and emergency shower must be available when handling this product. During application and drying, solvent vapours will be emitted.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ETHANOL

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m3
Short-term exposure limit (15-minute): WEL

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm 600 mg/m3
Short-term exposure limit (15-minute): WEL 300 ppm 899 mg/m3
Sk

isopropanol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m3
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m3

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

Ingredient comments

WEL = Workplace Exposure Limits

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ETHANOL (CAS: 64-17-5)

DNEL	Industry - Inhalation; Short term local effects: 1900 mg/m3 Industry - Dermal; Long term systemic effects: 343 mg/kg/day Industry - Inhalation; Long term systemic effects: 343 mg/m3 Consumer - Inhalation; Short term local effects: 950 mg/m3 Consumer - Dermal; Long term systemic effects: 206 mg/kg/day Consumer - Inhalation; Short term systemic effects: 114 mg/m3 Consumer - Oral; Short term systemic effects: 87 mg/kg/day
PNEC	- Fresh water; 960 µg/l - Marine water; 790 µg/l - Intermittent release; 2.75 mg/l - STP; 580 mg/l - Sediment (Freshwater); 3.6 mg/kg - Sediment (Marinewater); 2.9 mg/kg - Soil; 630 µg/kg

BUTANONE (CAS: 78-93-3)

DNEL	Industry - Inhalation; Long term systemic effects: 600 mg/m3 Industry - Dermal; Long term systemic effects: 1161 mg/kg/day Consumer - Inhalation; Long term systemic effects: 106 mg/m3 Consumer - Dermal; Long term systemic effects: 412 mg/kg/day Consumer - Oral; Long term systemic effects: 31 mg/kg/day
PNEC	- water; 55.8 mg/l - Intermittent release; 55.8 mg/l - STP; 709 mg/l - Sediment; 284.74 mg/kg - Soil; 22.5 mg/kg

isopropanol (CAS: 67-63-0)

DNEL	Industry - Inhalation; Long term systemic effects: 500 mg/m3 Industry - Dermal; Long term systemic effects: 888 mg/kg/day Consumer - Inhalation; Long term systemic effects: 89 mg/m3 Consumer - Dermal; Long term systemic effects: 319 mg/kg/day Consumer - Oral; Long term systemic effects: 26 mg/kg/day
PNEC	- water; 140.9 mg/l - Sediment; 552 mg/kg - Soil; 28 mg/kg - STP; 2251 mg/l

8.2. Exposure controls

Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Contact lenses should not be worn when working with this chemical. The following protection should be worn: Chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station and safety shower.

Hygiene measures

Provide eyewash station. Wash promptly if skin becomes contaminated. Promptly remove non-impervious clothing that becomes contaminated. When using do not eat, drink or smoke.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance
Liquid.

Colour
Brown.

Odour
Unpleasant.

Initial boiling point and range
78°C @ °C at 760 mmHg

Flash point
12°C CC (Closed cup).

Vapour pressure
mbar @ °C

Relative density
0.79 @ @ 20°C

Solubility(ies)
Miscible with water.

Auto-ignition temperature
365°C

Viscosity
1.22 cP @ 20°C

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability
Stable under normal conditions of storage and use. See section 7.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Fires or excessive heat may give off toxic fumes and gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects
Health effects of this preparation have not been determined. Data given refer to the major component. ethanol

Inhalation
Exposure to solvent vapours may cause irritation of the throat, respiratory system and mucous membranes and have adverse effects on the kidneys, liver and central nervous system.
Symptoms can include headache, dizziness, drowsiness, fatigue, and muscular weakness, In extreme cases resulting in loss of consciousness.
The patient should be kept under observation for at least 48 hours as symptoms may occur well after exposure.

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Ingestion

Gastrointestinal symptoms, including upset stomach. Drowsiness, dizziness, disorientation, vertigo.

Skin contact

Can cause defatting and dryness of skin, leading to cracking and eczema. Not expected to cause harm on brief contact, but prolonged or repeated exposure may lead to dermatitis.

Eye contact

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Route of entry

Inhalation Skin absorption Ingestion.

Target organs

Brain Central nervous system Kidneys Liver

SECTION 12: Ecological Information

Ecotoxicity

The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Product is hazardous waste. Do not allow into drains, sewers or water courses.
Disposal must be by means of a licensed waste contractor.

Disposal methods

Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do NOT Incinerate the container even when empty.

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

Proper shipping name (ADR/RID)	PAINT RELATED MATERIAL
Proper shipping name (IMDG)	PAINT RELATED MATERIAL
Proper shipping name (ICAO)	PAINT RELATED MATERIAL
Proper shipping name (ADN)	PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

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ADR/RID class	3
ADR/RID classification code	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	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

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 (ADR/RID)	30
Tunnel restriction code	(D/E)

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

SECTION 15: Regulatory information

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

National regulations

Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 SI No 716. (CHIP4).
Control of Substances Hazardous to Health Regulations (as amended). (COSHH) Refer to Revised guidance 6th Edition 2013 http://www.hse.gov.uk/pubns/priced/l5.pdf
Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2007. (CDG 2009)

EU legislation

Dangerous Substances Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. EC Regulation 1907/2006 (as amended) : 'REACH'. EC Regulation 1272/2008 (as amended): CLP (Classification, labelling and packaging of substances and mixtures). ADR (L'Accord européen relative au transport international des marchandises dangereuses par route.)

Guidance

Introduction to Local Exhaust Ventilation HS(G)37. The Control of Substances Hazardous to Health Regulations 2002 (as amended). Approved code of practice and guidance. Fifth Edition 2005. HSE Books, or download at: http://www.hse.gov.uk/pubns/priced/l5.pdf

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Revision comments

Classification calculated in accordance with CLP (EC 1272/2008).

Revision date	09/03/2015
Revision	3
Supersedes date	20/02/2015
SDS number	10087

Risk phrases in full

R11 Highly flammable.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Hazard statements in full

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Disclaimer

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