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SAFETY DATA SHEET (91/155/EC)

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

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\* Product name:

KNOTTING

\* Supplier:

LIBERON

Mountfield Ind Est

New Romney

Kent, TN28 8XU

Tel: 0044 (0)1797 367555

Fax: 0044 (0)1797 367575

\* Emergency phone number (to be used by the practising doctor):

UK - National Poisons Information Service Phone: 44 / 191 22 5131

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2. COMPOSITION/INFORMATION ON INGREDIENTS

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\* Preparation name:

KNOTTING

\* Component(s) contributing to the health hazard:

DENATURED ETHANOL

CAS NR: 64-17-5 EC NR: 603-002-00-5

Weight % : >50

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3. HAZARDS IDENTIFICATION

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\* Most important hazards:

Highly Flammable.

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4. FIRST AID MEASURES

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\* General advice:

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

\* Inhalation:

Remove patient 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

\* Skin contact:

Remove contaminated clothing. Immediately wash affected skin with plenty of soap and water or a proprietary skin cleaner. Do NOT use solvents or thinners

\* Eye contact:

Immediately irrigate with copious amounts of water for at least 15 minutes. Remove soft contact lenses. Seek medical attention.

\* Ingestion:

Do NOT induce vomiting. Rinse out mouth with water. Seek medical attention

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5. FIRE-FIGHTING MEASURES

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\* Suitable extinguishing media:

Alcohol resistant foam, CO<sub>2</sub> powder, water spray/mist.

\* Specific fire hazard(s):

Fire will produce dense black smoke containing hazardous combustion products (See heading 10). Exposure to decomposition products may be a hazard to health.

\* Special protective equipment for fire-fighters:

Use a self-contained breathing apparatus and also a protective suit.

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6. ACCIDENTAL RELEASE MEASURES

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\* Personal precaution(s):

Exclude sources of ignition and ventilate area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 & 8.

\* Environmental precaution(s):

Do not allow to enter into drains or watercourses. Clean preferably with a detergent ; avoid the use of solvents. If the product enters drains or sewers the local water authority should be contacted immediately. In the case of contamination of streams rivers or lakes the National Rivers Authority.

\* Method(s) for cleaning up:

Contain and collect spillages with non-combustible absorbent materials eg.g sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (See section 13).

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7. HANDLING AND STORAGE

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\* 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. Additionally, the product should only be used in areas from which all naked lights and 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 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 risk of spontaneous combustion and other fire hazards.

The product may be electrostatically charged. Use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be electrically conductive. The Manual Handling Operations Regulations may apply to the handling of containers/packages of this product. Refer to the guide weight indicated on the container when carrying out assessments.

\* Storage

Store in accordance with the conditions of the licence which is necessary under the Petroleum (Consolidation) Act. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers. Observe the label precautions.

Store between 5°C and 25°C in a dry and well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly sealed and kept upright to prevent leakage.

Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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\* Chemical Name:

DENATURED ETHANOL

\* National occupational exposure limits:

1000ppm 1920 mg/m<sup>3</sup> 8h TWA (LTEL)

\* Engineering measures to reduce exposure:

Provide adequate ventilation. Where reasonably practicable this should be 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)

\* Personal protection equipment:

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

\* 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 protective equipment should be worn (Organic Vapour cartridge)

\* Hand protection:

When skin exposure may occur (wear impervious gloves) advice should be sought from glove suppliers on appropriate types.

\* Skin and body protection:

Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

\* Eye protection:

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

\* Other:

Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state / form: liquid

Colour: Various

Odour: characteristic alcohol

pH: Not known

Boiling point/range: Not known

Flash point: <12°C

Explosion limits: not known

Relative density (water = 1): Approx 0.87

Viscosity: Not known

Water solubility: Partially miscible

Fat solubility: Not applicable.

Solvent solubility: Not known

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## 10. STABILITY AND REACTIVITY

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\* Stability:

Stable under the recommended storage and handling conditions (see Section 7)

\* Condition(s) to avoid:

Heat and sources of ignition

\* Material(s) to avoid:

In a fire hazardous decomposition products such as dense black smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced

\* Hazardous decomposition products:

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## 11. TOXICOLOGICAL INFORMATION

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\* General Information

There is no data available on the product itself.

Periodical medical test is recommended to check for any effects from repeated exposure.

\* Acute toxicity

Exposure to organic solvent may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

\* - Skin contact:

Repeated or prolonged contact with skin may lead to removal of natural fats, resulting in non-allergic contact dermatitis, and absorption through the skin.

\* - Eyes contact:

Splashes in the eyes may cause irritation and reversible local damage.

\* - Ingestion:

May cause internal irritation if ingested in quantity. Symptoms may include sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other symptoms similar to over exposure to vapours.

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## 12. ECOLOGICAL INFORMATION

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\* General information(s):

There is no data available on the product itself.

Do not allow product to enter drains and water courses or be deposited where it can affect ground or surface water.

\* Persistence and degradability:

There is no data available.

\* Bioaccumulation:

there is no data available

\* Environmental toxicity:

toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Do not allow product to reach ground water, water bodies or sewage system.

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## 13. DISPOSAL CONSIDERATIONS

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\* Waste / unused products:

Dispose of through an Authorised Contractor to a Licensed Site.

Do Not allow product to reach sewage system.

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## 14. TRANSPORT INFORMATION

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General information(s):

Transport followed ADR, IMDG, IATA

UN No. 1263

Land (Road / Railway: ADR/RID)

- item and letter: 3.2c

Sea (IMDG)

- IMO class: 3.2

Packing group II

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## 15. REGULATORY INFORMATION

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\* Labelling:

According to European directives on classification, packaging and labelling of dangerous substances 67/548/ EC. Using the calculation method 88/379/ EC.

\* EC number: Not applicable.

Symbol(s): F - Highly Flammable

Contains:

R-phrase(s):

R : 11

Highly Flammable.

S-phrase(s):

S : 2

Keep out of the reach of children.

S : 16 Keep away from sources of ignition - No Smoking

S : 29 Do not empty into drains

S : 33 Take precautionary measures against static discharges

If swallowed seek medical advice immediately and show this container or label

S : 51 Use only in well ventilated areas.

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## 16. OTHER INFORMATION

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\* According legislation(s):

This safety data sheet is in compliance with EC directives and adaptations  
no.: 91/155, 67/548, and 88/379

\* Important remarks:

Information in this safety data sheet is based on actual knowledge in our  
Possession and our experience.

It is recommended to pass the information of this safety data sheet,  
eventually in an appropriated form, to the users.

No liability will be accepted (except as otherwise provided by law) arising  
out of the use of information supplied in this data sheet.

\* Restrictions:

This information relates to the specific material designated and may not be  
valid in combination with other product(s).

\* History

- First edition date: 19-06-98

- Review date: 02/04/2003

- Version: 3

- Review chapter(s) n°: 2//14/15/12/11/9

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