



SAFETY DATA SHEET
KNOTTING

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Issued: 31/07/04
Revision No: 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: KNOTTING
Product code: KNOT
Synonyms: KNOTTING
Company name: Rustins Ltd
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ETHANOL 50-70%
CAS: 64-17-5
EINECS: 200-578-6
[F] R11

- METHANOL 1-10%
CAS: 67-56-1
EINECS: 200-659-6
[F] R11; [T] R23/24/25; [T] R39/23/24/25

3. HAZARDS IDENTIFICATION

Main hazards: Highly flammable.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation. Repeated or prolonged contact may cause defatting of the skin leading to irritation and dermatitis.

Eye contact: Irritation, reddening and transient corneal damage.

Ingestion: May cause dizziness, loss of coordination, loss of consciousness, temporary or permanent blindness, coma and death.

Inhalation: There may be irritation of nose, throat and respiratory tract. Dizziness, loss of coordination, nausea and vomiting may occur.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Do NOT use solvents or thinners. If irritation persists seek medical attention.

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- Eye contact:** Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.
- Ingestion:** Do not induce vomiting. Wash out mouth with water. Get medical attention immediately.
- Inhalation:** Remove to fresh air, keep the patient warm and at rest. If there is difficulty in breathing, properly trained personnel may administer oxygen. If breathing has stopped, administer artificial respiration (NOT mouth to mouth). Give nothing by mouth if unconscious, place in the recovery position and seek medical attention.

5. FIRE-FIGHTING MEASURES

- Extinguishing media:** Water spray, fog or mist. Do NOT use water jet. Carbon dioxide (CO₂). Dry chemical powder. Alcohol resistant foam. Sand or earth.
- Exposure hazards:** Highly flammable. May explode in a fire. Solvent vapours may form explosive mixtures with air. The vapour is heavier than air and may travel along the ground, collect in work pits and cellars, creating a fire and respiratory hazard. Vapour explosion and poison hazard indoors, outdoors and in sewers. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
- Protection of fire-fighters:** Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus. 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

- Personal precautions:** Ventilate the area. Eliminate all sources of ignition. No Smoking. Avoid inhaling vapour. The vapour is heavier than air and may collect in confined areas creating a respiratory and explosion hazard. Do not attempt to take action without suitable protective clothing (see section 8). Mark out the contaminated area with signs and prevent access to unauthorised personnel.
- Environmental precautions:** Do not discharge into drains or rivers. 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 contact the relevant environment agency. Vapour explosion and poison hazard indoors, outdoors and in sewers.
- Clean-up procedures:** Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite. Transfer into a suitable container for disposal in accordance with the waste regulations (see section 13) Do not use equipment in clean-up procedure which may produce sparks. Clean preferably with a detergent, avoid the use of solvents.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. Avoid inhalation of vapour. Avoid skin and eye contact. Smoking, eating and drinking should be prohibited in areas of storage and use. Emergency shower and eye wash facilities should be readily available. Exclude sources of heat, sparks and open flame. Earth any equipment used in handling. Use non-sparking tools. The Manual Handling Operations Regulations may apply to the handling of containers of this product.

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Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Exclude sources of heat, sparks and open flame. Take precautionary measures to prevent product spills into drains, the ground or waters. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers.

Suitable packaging: Ideally, keep in original container. If transfer is necessary use glass or coated steel containers. Do NOT store in lead, zinc, tin or aluminium.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ETHANOL

TWA (8 hr exposure limit): 1920 mg/m³ (OES)

- METHANOL

TWA (8 hr exposure limit): 266 mg/m³ STEL (15 min exposure limit): 333 mg/m³ (OES)

Engineering measures: Provide adequate ventilation. 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 Respiratory protection below).

Respiratory protection: If there is a risk of exposure to high vapour concentrations, use respiratory protective 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 Regulations.

Hand protection: Wear Nitrile gloves.

Eye protection: Eye protection designed to protect against liquid splashes should be worn. Ensure eye bath is to hand.

Skin protection: Overalls are normally suitable, PVC apron if risk of splashing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Brown

Odour: Alcoholic

Solubility in water: Partially miscible.

Viscosity: Viscous

Boiling point/range°C: 78

Flash point°C: 12

Relative density: 0.900 @ 20 C

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling conditions (see Section 7).

Conditions to avoid: Avoid heat, flames and sparks. Direct sunlight.

Materials to avoid: Strong acids. Strong oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

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11. TOXICOLOGICAL INFORMATION**Hazardous ingredients:** ETHANOL

IVN RAT LD50 1440 mg/kg
ORL MUS LD50 3450 mg/kg
ORL RAT LD50 7060 mg/kg

• METHANOL

IVN RAT LD50 2131 mg/kg
ORL MUS LD50 7300 mg/kg
ORL RAT LD50 5628 mg/kg

Routes of exposure: This product has not been tested for toxicity. The toxicological properties given in this section are based on those of the solvents. Prolonged skin contact will have a defatting effect, which may lead to irritation and possibly dermatitis. High vapour concentrations may cause severe lung damage. Vapour irritates the eyes and the respiratory tract. Swallowing may cause blindness, severe internal injury, unconsciousness and death.

12. ECOLOGICAL INFORMATION

Mobility: Partially soluble in water. Partially volatile. Partially absorbed into soil. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

Persistence and degradability: Expected to be biodegradable.

Bioaccumulative potential: Not expected to bioaccumulate.

Other adverse effects: It is unlikely this material will present an environmental hazard.

13. DISPOSAL CONSIDERATIONS

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION**ADR / RID**

UN no: 1263

ADR Class: 3

Labelling: 3

Hazard ID no: 33



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IMDG / IMO

UN no: 1263	Class: 3
Packing group: II	EmS: 3-05
Marine pollutant: NO	Labelling: 3

IATA / ICAO

UN no: 1263	Class: 3
Packing group: II	Packing instructions: 307
Labelling: 3	

15. REGULATORY INFORMATION**Hazard symbols:** Highly flammable.**Risk phrases:** R11: Highly flammable.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions. Safety Data Sheet complies with UK regulatory references in accordance with CHIP 3.

16. OTHER INFORMATION**Risk phrases used in s.2:** 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.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product. 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.