

SAFETY DATA SHEET

KNOTTING

Version: 4-1

Review Date: 15/01/09

91/155/EC (2001/58/EC) - ISO 11014-1

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

Product name: KNOTTING
Uses or/and applications: wood care
Product code nr: 278
Supplier: Liberon Ltd
Mountfield Industrial Estate NEW ROMNEY
KENT TN28 8XU

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Emergency phone number: Doctor to call UK- National Poisons Information Service

2. HAZARDS IDENTIFICATION

Most important hazards: Highly flammable.
Specific hazards: none

3. COMPOSITION / INFORMATION ON INGREDIENTS

Formula: F0KCV00
Component(s) contributing to the hazard: None according to EC directives.

4. FIRST AID MEASURES

General advice: In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
For symptom description, see item 11.

Inhalation: Take victim to fresh air, in a quiet place, in an half laying position and if necessary take medical advice.
Artificial respiration and/or oxygen if necessary.

Skin contact: Wash with water and soap as a precaution.
If skin irritation persists, take medical advice.

Eye contact: Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.

Ingestion: Do not induce vomiting.
Rinse mouth, do not drink anything, keep quiet, and go immediately to hospital or to a doctor.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂), water spray, sand, earth.

Extinguishing media which must NOT be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Specific method(s): Cool closed containers exposed to fire with water spray.
Do not allow run-off from fire fighting to enter drains or water courses.

Specific fire hazard(s): Explosion risks of vapours.
Vapours are heavier than air and spread above ground.
In case of fire, product decomposes in: carbon oxides (CO and CO₂) and smokes.
Concerning product toxicity, see item 11 and about product stability and reactivity see item 10.

Special protective equipment for firefighters: Use a self-contained breathing apparatus and also a protective suit

6. ACCIDENTAL RELEASE MEASURES

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Personal precaution(s):	Evacuate personnel to a safe area. Remove all sources of ignition. Be careful to flashback of fire. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Concerning personal protective equipment to use, see item 8.
Environmental precaution(s):	Stop leak without risks if possible. Dike and contain spill. Do not allow material to contaminate ground water system. Concerning disposal elimination after cleaning, see item 13.
Method(s) for cleaning up:	Soak up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Shovel into suitable and closed container for disposal. Dispose as hazardous waste.

7. HANDLING AND STORAGE

Handling

- Precaution(s): Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air.
Avoid all eyes and skin contact and do not breathe vapour and mist.
Do not eat, drink and do not smoke in areas where product is used.
Shower, eyes shower and water point in proximity.
Wear personal protective equipment (see item 8).
 - Technical condition(s): Explosion-free electrical equipment and lighting with earth.
Do not use compressed air to fill, handle or work up.
Avoid static electricity discharges.
Ventilation along floor.
 - Safe handling advice(s): Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Nonsparking tools should be used.
Opened containers must be carefully closed and kept upright to avoid leakage.
- #### Storage
- Precaution(s): Store in a place accessible by authorised persons only.
Keep container tightly closed in a cool place.
 - Technical condition(s): Not flammable and waterproof underground retention basin.
 - Storage condition(s): Keep container tightly closed and at a temperature not exceeding (°C): 45 °C
Keep away from sources of ignition - No smoking.
Store away from direct sunlight or other heat sources.
Store in a well-ventilated place.
 - Separation of incompatible product(s): Keep away from: strong acids, strong bases and oxidising compounds.
 - Packaging / tank material: made of the same material as the supply container.
 - Unsuitable packaging materials: Avoid certain plastics which are soluble in product.
rubbers
aluminium

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measure(s): Ensure adequate ventilation, especially in confined areas.
- Control parameter(s):
- Exposure limit(s):
- Personal protection equipment:
- Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. (breathing apparatus with filter A)
- Hand protection: nitrile rubber gloves
neoprene gloves
- Skin and body protection: solvent-resistant apron and boots
long sleeved protective clothing
- Eye protection: Wear closed safety glasses. or face shield

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Hygiene measure(s): Do not eat, drink, or smoke during work.
Keep away from food, drink and animal feed.
Keep workplace clean and tidy as much as possible.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

- Physical state / form: liquid
- Colour: Milky white
- Odour: alcoholic

Important health,safety and environmental information

- PH: Not applicable.
- Boiling point/range: Not determined.
- Flash point: 13°C
- Explosion limits: not determined
- Relative density (water = 1): 0.845<d<0.860
- Viscosity: Not determined.
- Water solubility: insoluble
- Fat solubility: Not applicable.
- Solvent solubility: soluble in most organic solvents

10. STABILITY AND REACTIVITY

Stability: Stable in use and storage conditions as recommended in item 7.
Condition(s) to avoid: Do not expose at temperatures above 45°C

Material(s) to avoid: Avoid certain plastics which are soluble in product.
Reacts violently with:: strong acids, strong bases, oxidising compounds, aldehydes.

Hazardous decomposition products: Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and dioxide.

11. TOXICOLOGICAL INFORMATION

General information(s): There is no data available on the product itself.

Acute toxicity

- Inhalation: Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, breathing arrest.
- Skin contact: Frequent or prolonged contacts may defat and dry the skin, leading to discomfort and dermatitis.
- Eyes contact: Liquid splashes in the eye may cause irritation. (pain, redness) serious damage to eyes.
- Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Susceptible to induce: oedema of the lungs, heavy breathing difficulty, dizziness.

12. ECOLOGICAL INFORMATION

General information(s): There is no data available on the product itself.

Bioaccumulation: None bioaccumulation.

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Waste / unused products: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Can be recycled.
Do not dispose of waste into sewer.
Destruction by incineration / pyrolyse.

Contaminated packaging: This container must only be used for this product.
Container remains hazardous when empty. Continue to observe all precautions.

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Further Information(s):

14. TRANSPORT INFORMATION

General information(s):	Transport followed ADR, IMDG, IATA
UN N°:	1263
Land (Road / Railway: ADR/RID)	
- Class:	3
- Verpakkingsgroep:	II
Sea (IMDG)	
- Class:	3
-Packing group:	II
Air (ICAO/IATA)	

15. REGULATORY INFORMATION

Labelling: According to European directives on classification, packaging and labelling of dangerous substances

EC number: Not applicable.
Symbol(s): F - Highly flammable

R-phrase(s): 11 Highly flammable.

S-phrase(s): 2 Keep out of the reach of children.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
46 If swallowed, seek medical advice immediately and show this container or label.
51 Use only in well-ventilated areas.

16. OTHER INFORMATION

According legislation(s): This safety data sheet is in compliance with directives and adaptings: 91/155, 67/548, 88/379
2006/8/EC amending Directive 1999/45/EC
2004/73/EC : 29th adaptation of Directive 67/548/EC

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.

Uses or/and applications: wood care

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
-Previous version: 02/04/03
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- Version: 4-1
-Review chapter(s) no.
Written by: Liberon UK