



SAFETY DATA SHEET

MANDARIN

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Issued: 27/02/06

Revision No: 4

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

Product name: MANDARIN

Use / description of product: Citrus based degreaser.

Company name: Unicorn Chemicals Ltd

Unicorn House

Mowbray Drive

Blackpool

Lancashire

FY3 7UN

Tel: 01253 396101

Fax: 01253 302895

2. COMPOSITION / INFORMATION ON INGREDIENTS

- Hazardous ingredients:** ODOURLESS KEROSENE 50-70%
EINECS: 265-149-8 CAS: 064742-47-8
[Xn] R65; [N] R51/53
- D-LIMONENE (INHIBITED) 10-30%
CAS: 5989-27-5
[-] R10; [Xi] R36/38

3. HAZARDS IDENTIFICATION

Main hazards: Irritating to eyes and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

Other hazards: Combustible.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be shortness of breath due to congestion of the lungs. Nausea and stomach pain may occur. There may be vomiting. There may be loss of consciousness. Convulsions may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash with soap and water.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If

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unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

Exposure hazards: In combustion emits toxic fumes.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using sufficient appropriate absorbent material.

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. Ensure good ventilation and allow residues to evaporate.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Wear appropriate protective clothing when handling this product.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ODOURLESS KEROSENE
WEL (8 hr exposure limit): 1000mg/m³

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If Workplace Exposure Limit(s) listed above are exceeded, respiratory protection may be required.

Hand protection: Protective gloves.

Eye protection: Wear safety glasses or goggles if risk of splashing.

Skin protection: Protective overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Orange

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Odour: Citrus.**Oxidising:** Non-oxidising (by EC criteria)**Solubility in water:** Insoluble**Viscosity:** Non-viscous**Flash point°C:** 78**Relative density:** 0.8**10. STABILITY AND REACTIVITY****Stability:** Stable under normal conditions.**Materials to avoid:** Strong oxidising agents.**Haz. decomp. products:** Combustion will generate oxides of carbon, acrid smoke and irritating fumes.**11. TOXICOLOGICAL INFORMATION****Hazardous ingredients:** D-LIMONENE (INHIBITED)

ORL RAT LD50 >5 g/Kg

SKN RBT LD50 >5 g/kg

Routes of exposure: Prolonged contact with skin may cause irritation leading to dermatitis in extreme cases.**12. ECOLOGICAL INFORMATION****Hazardous ingredients:** ODOURLESS KEROSENE

ALGAE 72H IC50 20 ppm

DAPHNIA 24H EC50 >250 ppm

FISH 96H LC50 >1000 ppm

Mobility: Insoluble in water.**Other adverse effects:** Toxic to aquatic organisms.**13. DISPOSAL CONSIDERATIONS****Disposal operations:** Contact Unicorn Chemicals Ltd to arrange disposal.**Disposal of packaging:** May be reused following decontamination.**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:** 3082**ADR Class:** 9**Packing group:** III**Classification code:** M6**Shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ODOURLESS KEROSENE)**Labelling:** 9**Hazard ID no:** 90

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IMDG / IMO

| | |
|----------------------------|---------------------|
| UN no: 3082 | Class: 9 |
| Packing group: III | EmS: F-A,S-F |
| Marine pollutant: . | Labelling: 9 |

IATA / ICAO

| | |
|---------------------------|----------------------------------|
| UN no: 3082 | Class: 9 |
| Packing group: III | Packing instructions: 914 |
| Labelling: 9 | |

15. REGULATORY INFORMATION**Hazard symbols:** Harmful.

Dangerous for the environment.

**Risk phrases:** R36/38: Irritating to eyes and skin.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

Safety phrases: S2: Keep out of the reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S23: Do not breathe vapour/spray.

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

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.

16. OTHER INFORMATION

Other information: D-Limonene used in this product contains anti-oxidant (bht) which eliminates the requirement for R43 classification (May cause sensitisation by skin contact).

This product belongs to Hazard Groups A and S under the HSE COSHH Essentials guidelines. (Publication HSG193).

Always use in accordance with manufacturer's directions.

Risk phrases used in s.2: R65: Harmful: may cause lung damage if swallowed.

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R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

R36/38: Irritating to eyes and skin.

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.