



SAFETY DATA SHEET

M-SOLVE

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Issued: 27/02/06

Revision No: 4

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

Product name: M-SOLVE

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: NAPHTHA (PETROLEUM), HYDROTREATED HEAVY >90%

CAS: 64742-48-9

[-] R10; [Xn] R65; [-] R66

3. HAZARDS IDENTIFICATION

Main hazards: Flammable. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

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: Nausea and stomach pain may occur. There may be vomiting. There may be shortness of breath due to congestion of the lungs. 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. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

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

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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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Workplace exposure limits**

WEL (8 hr exposure limit): 100ppm (Suggested)

Hazardous ingredients: NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

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: Safety goggles.

Skin protection: Protective overalls.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Paraffinic

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

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Boiling point/range°C: 150-200
Flammability limits %: lower: 0.6
upper: 8.0
Flash point°C: 44
Autoflammability°C: 240
Relative density: 0.77

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Heat. Sparks. Naked flames.
Materials to avoid: Strong oxidising agents.
Haz. decomp. products: Combustion will generate oxides of carbon, acrid smoke and irritating fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: M-SOLVE
ORL RAT LD50 >5000 mg/kg
Hazardous ingredients: NAPHTHA (PETROLEUM), HYDROTREATED HEAVY
ORL RAT LD50 >5000 mg/kg
Routes of exposure: Exposure to high levels of vapour may cause drowsiness, dizziness, nausea, headaches, vomiting. Prolonged contact with skin may cause irritation leading to dermatitis in extreme cases. Small amounts of liquid aspirated into respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

12. ECOLOGICAL INFORMATION

Mobility: Floats on water.
Persistence and degradability: Inherently biodegradable. Oxidises rapidly by photochemical reactions in air.
Bioaccumulative potential: Potential for bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Disposal operations: Contact Unicorn Chemicals Ltd to arrange disposal.
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: 1268
ADR Class: 3
Packing group: III
Classification code: F1
Shipping name: PETROLEUM PRODUCTS, N.O.S. (NAPHTHA (PETROLEUM), HYDROTREATED HEAVY)
Labelling: 3
Hazard ID no: 30



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IMDG / IMO

UN no: 1268	Class: 3
Packing group: III	EmS: F-E,S-E
Marine pollutant: .	Labelling: 3

IATA / ICAO

UN no: 1268	Class: 3
Packing group: III	Packing instructions: 309(P&CA); 310(CAO)
Labelling: 3	

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

Risk phrases: R10: Flammable.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.

Safety phrases: S2: Keep out of the reach of children.
S23: Do not breathe vapour/spray.
S24: Avoid contact with skin.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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: Suggested Hazard Groups A and S for handling this product (Publication HSG193-HSE COSHH Essentials guidelines).

Always use in accordance with manufacturer's directions.

Risk phrases used in s.2: R10: Flammable.
R65: Harmful: may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.

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.