

SAFETY DATA SHEET

MO2

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Revision No: 1

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

Product name: MO2

CAS number: 100-97-0

EINECS number: 202-905-8

Product code: RD2006

Synonyms: HEXAMETHYLENETRIAMINE

Use / description of product: Highly flammable. Irritant.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient 1: HEXAMINE >90%

CAS: 100-97-0

EINECS: 202-905-8

[F] R11; [Sens.] R42/43;

Contains: Contains N,N-Diethyl-p-Phenylene Diamine Sulphate

3. HAZARDS IDENTIFICATION

Main hazards: Highly flammable. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact.

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: Irritation or pain may occur at the site of contact. Severe burns may occur.

Eye contact: There may be irritation and redness. There may be severe pain. Corneal burns may occur. The vision may become blurred.

Ingestion: Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited. There may be mental confusion. There may be loss of consciousness. Convulsions may occur.

Inhalation: There may be shortness of breath with a burning sensation in the throat. There may be nausea, thirst, a high temperature and sweating. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Convulsions may occur.

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

[cont...]

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examination.

Ingestion: Do not induce vomiting. If conscious, give 1 pint 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 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. Water spray.

Exposure hazards: Highly flammable. In combustion emits toxic fumes of hydrogen cyanide.

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. Eliminate all sources of ignition. Do not create dust.

Environmental precautions: Do not discharge into drains or rivers.

Clean-up procedures: Cover with sodium bisulphite solution using starch iodide paper to test for complete reduction. If inside, transfer outside of building in suitable containers. Wash down the drain with large amounts of water.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance. Smoking is forbidden.

Storage conditions: Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Solid

Colour: White

Odour: Sweet-smelling

Oxidising: Non-oxidising (by EC criteria)

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Solubility in water: Soluble
Boiling point/range°C: 280
Flash point°C: 250 cc
Autoflammability°C: 410
Relative density: 1.27
pH: 8-8.5

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: Heat. Sources of ignition.
Materials to avoid: Water. Acids. Oxidising agents.
Haz. decomp. products: In combustion emits toxic fumes of hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Routes of exposure May cause sensitisation by inhalation. May cause sensitisation by skin contact.

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

13. DISPOSAL CONSIDERATIONS

Waste disposal: Arrange for collection by specialised disposal company.
Disposal of packaging Arrange for collection by specialised disposal company.
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: 1328
ADR Class: 4.1
Hazard ID no: 40
Labelling: 4.1
Shipping name: HEXAMETHYLENETRIAMINE

IMDG / IMO

UN no: 1328
Class: 4.1
Packing group: III
EmS: 4.1-06
Marine pollutant: NO
Labelling: 4 FLAMMABLE SOLID

IATA / ICAO

UN no: 1328
Class: 4.1
Packing group: III
Packing instructions: 420

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Quantity 100 kg**Labelling:** 4 FLAMMABLE SOLID**15. REGULATORY INFORMATION****Hazard symbols:** Highly flammable.

Irritant.

**Risk phrases:** R11: Highly flammable.

R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitisation by inhalation and skin contact.

Safety phrases: S16: Keep away from sources of ignition - No smoking.

S22: Do not breathe dust.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

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. ADDITIONAL INFORMATION****Risk phrases used in s.2:** R11: Highly flammable.

R42/43: May cause sensitisation by inhalation and skin contact.

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.