OXFORD LAB FINE CHEM LLP
ISO 9001-2008 Certified Company

Regd Office: Unit no 12, 1st Floor,
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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

METHYLAMINE SOLUTION 40%

(For Synthesis)

MSDS CAS: 74-89-5

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: METHYLAMINE SOLUTION 40%
CAS#: 74-89-5
Synonyms: Monomethylamine
Chemical Name: Methylamine Solution 40%
Chemical Formula: CH5N

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet :

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
Navghar, Vasai (East). Palghar - 401 210.
Mumbai, Maharashtra, INDIA.
Tel: 91-250-2390989
Tel/Fax: 91-250-2390032

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
METHYLAMINE SOLUTION 40%	74-89-5	100

Section 3: Hazards Identification

Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Flammable liquids(Category 2), H225
Acute toxicity, Oral(Category 4), H302
Acute toxicity, Inhalation(Category 3), H331
Skin corrosion(Category 1B), H314
Specific target organ toxicity -single exposure(Category 3), H335

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 4: First Aid Measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician..

Indication of any immediate medical attention and special treatment needed:

No data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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Section 5: Fire and Explosion Data (Continued)

Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx)
Carbon oxides, Nitrogen oxides (NOx)

Advice for firefighters

Wear self contained breathing apparatus for fire-fighting if necessary.

Further information

Use water spray to cool unopened containers.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

Section 7: Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition –No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Flammable liquids.

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection **Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).**

Skin protection **Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.**

Body Protection **Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.**

Respiratory protection **Where risk assessment shows air-purifying respirators are appropriate use (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engine protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Form	**: Clear colorless liquid.**
Odour	**: No data available.**
Color	**: Colorless**
Odour threshold	**: No data available.**
pH	**: 14.0 at 100 g/l**
Molecular Weight	**: 31,06 g/mol**
Melting point/Freezing point	**: -40 °C**
Initial boiling point andboiling range	**: 48 °C**
Autoignition temperature	**: No data available.**
Flammability (solid, gas)	**: No data available.**

Upper/lower flammability or explosive limits: **No data available.**

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Section 9: Physical and Chemical Properties (Continued)

Flash point [°C]	**: -10 °C-closed cup**
Evaporation rate	**: No data available.**
Vapour pressure	**: 278 mmHg at 20 °C**
Vapour density	**: 1.07-(Air = 1.0)**
Relative density,	**: 0.897 g/mL at 25 °C**
Solubility in water	**: Soluble.**
Viscosity	**: No data available.**
Explosive properties	**: No data available.**
Oxidising properties	**: No data available.**
Decomposition temperature	**: No data available.**
Autoignition temperature	**: No data available.**

Section 10: Stability and Reactivity Data

Reactivity: **No data available.**

Chemical stability: **Stable under recommended storage conditions.**

Possibility of hazardous reactions: **No data available.**

Conditions to avoid: **Heat, flames and sparks. Extremes of temperature and direct sunlight.**

Incompatible materials:
acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Phosphorus halides

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions.-Carbon oxides, Nitrogen oxides (NOx)
Other decomposition products-No data available
Hazardous decomposition products formed under fire conditions.-Carbon oxides, Nitrogen oxides (NOx)

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Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity: **LD50 Oral-Rat-698 mg/kg LC50 Inhalation- Rat-4 h-> 2.1 -< 2.9 mg/l**

Skin corrosion/irritation: **No data available**

Serious eye damage/eye irritation: **No data available**

Respiratory or skin sensitization: **No data available**

Germ cell mutagenicity: **No data available**

Carcinogenicity

IARC: **No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.**

Reproductive toxicity: **No data available**

Specific target organ toxicity - single exposure: **No data available**

Specific target organ toxicity - repeated exposure: **No data available**

Aspiration hazard: **No data available**

Additional Information: **RTECS: Not available**

Section 12: Ecological Information

Toxicity: **No data available.**

Persistence - degradability: **No data available.**

Bioaccumulative potential: **Not established.**

Mobility in soil: **Not established.**

Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects: **No data available.**

Section 13: Disposal Considerations

Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name : METHYLAMINE, AQUEOUS SOLUTION
UN N° : 1235
ADR - Class : 3 (8)
ADR - Packing group : II

Sea transport (IMDG) [English only]

Proper shipping name : METHYLAMINE, AQUEOUS SOLUTION
UN N° : 1235
IMO-IMDG - Class or division : 3 (8)
IMO-IMDG - Packing group : II

Air transport (ICAO-IATA) [English only]

Proper shipping name : METHYLAMINE, AQUEOUS SOLUTION
UN N° : 1235
IATA - Class or division : 3 (8)
IATA - Packing group : II

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment:
For this product a chemical safety assessment was not carried out.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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