

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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MATERIAL SAFETY DATA SHEET

ETHYLAMINE SOLUTION 70%

(For Synthesis)

MSDS CAS: 75-04-7

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: ETHYLAMINE SOLUTION 70%

CAS#: 75-04-7

Synonym: Not Available.

Chemical Name: Ethylamine Solution 70%

Chemical Formula: C₂H₇N

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,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Ethylamine Solution 70%	75-04-7	70-100

Section 3: Hazards Identification

Risk advice to man and the environment:

Extremely flammable. Irritating to eyes and respiratory system.

Section 4: 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 Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. 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.

Section 5: Fire and Explosion Data

Suitable extinguishing media:

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

Special protective equipment for fire-fighters:

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:

Use personal protective equipment. Avoid breathing vapors, 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 for cleaning up: Wipe up with absorbent material (e.g. cloth, fleece).

Section 7: Handling and Storage

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.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Moisture sensitive. Cool to 0°C before opening. Contents under pressure.

Section 8: Exposure Controls/Personal Protection

Personal protective equipment

Respiratory protection:

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Section 8: Exposure Controls/Personal Protection (Continued)

Eye protection: Face shield and safety glasses.

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Appearance Form	: Gaseous.
Colour	: Colourless
Molecular Weight	: 45.08 g/mole
pH	: No data available
Melting point	: -81 °C - lit.
Boiling point	: 16,6 °C - lit.
Flash point	: -37 °C - closed cup
Ignition temperature	: 383 °C
Lower explosion limit	: 3,5 %(V)
Upper explosion limit	: 14 %(V)
Vapour pressure	: 1.165 hPa at 20 °C
Density	: 0,68 g/mL at 20 °C / 0,689 g/mL at 25 °C
Water solubility	: No data available
Relative vapour density	: 1,56- (Air = 1.0)

Section 10: Stability and Reactivity Data

Storage stability: Stable under recommended storage conditions.

Conditions to avoid: Tin/tin oxides. Heat, flames and sparks.

Section 10: Stability and Reactivity Data (Continued)

Materials to avoid:

Strong oxidizing agents, Nickel, Copper, Strong acids, Zinc, Ethylamine, anhydrous is packaged in steel cylinders. Cool to 0°C before opening. Incompatible with silver, mercury and brass.

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Section 11: Toxicological Information

Acute toxicity:

LD50 Oral - rat - 400 mg/kg

LD50 Dermal - rabbit - 265 mg/kg

Irritation and corrosion

Skin - rabbit - Mild skin irritation - 24 h

Eyes - rabbit - Severe eye irritation

Sensitization: No data available

Chronic exposure

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.

Signs and Symptoms of Exposure:

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Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin, Cough, Shortness of breath, Headache, Nausea

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.

Ingestion May be harmful if swallowed.

Target Organs Liver, Kidney, Eyes, Lungs.

Section 12: Ecological Information

Environmental Fate:

Elimination information (persistence and degradability)

No data available.

Ecotoxicity effects:

Toxicity to fish LC50 - *Oryzias latipes* - 1.000 mg/l - 48 h

Toxicity to daphnia and other aquatic invertebrates.

LC50 - *Daphnia magna* (Water flea) - 110 mg/l - 24 h

Further information on ecology: No data available.

Section 13: Disposal Considerations

Product:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging:

Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

Proper shipping name: ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine

UN N°: 2270

H.I. nr: 338

ADR - Class: 3

Labelling - Transport: 3 : Flammable liquid. 8 : Corrosive substance.

ADR - Group: II

Section 14: Transport Information (Continued)

Sea transport (IMDG) [English only]

Proper shipping name: ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine

UN N°: 2270

IMO-IMDG - Class or division: 3 : Flammable liquid. (8 : Corrosive substance.)

IMO-IMDG - Packing group: II

Air transport (ICAO-IATA) [English only]

Proper shipping name: ETHYLAMINE, AQUEOUS SOLUTION with not less than 50% but not more than 70% ethylamine

UN N°: 2270

IATA - Class or division: 3 : Flammable liquid. (8 : Corrosive substance.)

IATA - Packing group: II

Section 15: Other Regulatory Information

Labelling according to EC Directives

EC Label

Hazard symbols:

F+ Extremely flammable

Xi Irritant

R-phrases(s):

R12 Extremely flammable.

R36/37 Irritating to eyes and respiratory system.

S-phrases(s):

S16 Keep away from sources of ignition - No smoking.

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

S29 Do not empty into drains.

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Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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