



Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

MATERIAL SAFETY DATA SHEET

MSDS

Savgan Heights ; 102 .B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : 2-(ETHYLAMINO) ETHANOL 98%

Synonyms: n-ethylethanolamine, 2-Ethylaminoethanol, (2-Hydroxyethyl)ethylamine , 2-N-Monoethylaminoethanol

CAS No.: 110-73-6

Molecular Weight: 89.14

Chemical Formula: C₄H₁₁NO

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
2-(ETHYLAMINO) ETHANOL	110-73-6	98 - 100%	Yes

Section 3 - Hazardous Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. Toxic in contact with skin. Risk of serious damage to eyes.

Section 4 - First Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER EYE CONTACT

Assure adequate flushing of the eyes by separating the eyelids with fingers.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA

Suitable: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

Section 8 - Exposure Controls, Personal Protection

ENGINEERING CONTROLS

Use only in a chemical fume hood. Safety shower and eye bath.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Special Protective Measures: Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Faceshield (8-inch minimum)

Section 9 - Physical and Chemical Properties

Appearance Color: Colorless
Form: Clear viscous liquid
Property Value At Temperature or Pressure
pH N/A
BP/BP Range 165 °C
MP/MP Range - 90.0 °C
Flash Point 71 °C Method: closed cup
Flammability N/A
Autoignition Temp N/A
Oxidizing Properties N/A
Explosive Properties N/A
Explosion Limits N/A
Vapor Pressure < 1 mmHg 20 °C
SG/Density 0.914 g/cm³
Partition Coefficient N/A
Viscosity N/A
Vapor Density 3 g/l
Saturated Vapor Conc. N/A
Evaporation Rate N/A
Bulk Density N/A
Decomposition Temp. N/A
Solvent Content N/A
Water Content N/A
Surface Tension N/A
Conductivity N/A
Miscellaneous Data N/A
Solubility N/A

Section 10 - Stability and Reactivity

STABILITY

Materials to Avoid: Strong acids, Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11 - Toxicological Information

RTECS NUMBER: KK9100000

ACUTE TOXICITY

LD50

Oral

Rat

1000 mg/kg

LD50

Intraperitoneal

Rat

1170 MG/KG

Remarks: Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels True cholinesterase.

LD50

Skin

Rabbit

360 UL/KG

LD50

Oral

Mammal

1200 mg/kg

Remarks: Gastrointestinal:Hypermotility, diarrhea. Cardiac:
Change in rate. Lungs, Thorax, or Respiration:Respiratory
depression.

SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing,
wheezing, laryngitis, shortness of breath, headache, nausea, and
vomiting. Inhalation may result in spasm, inflammation and edema
of the larynx and bronchi, chemical pneumonitis, and pulmonary
edema. Material is extremely destructive to tissue of the mucous
membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE

Skin Absorption: Readily absorbed through skin. Toxic if
absorbed through skin.

Inhalation: May be harmful if inhaled.

Ingestion: Harmful if swallowed.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

SUBSTANCE DISPOSAL

This combustible material may be burned in a chemical incinerator
equipped with an afterburner and scrubber. Observe all federal,
state, and local environmental regulations.

Section 14 - Transport Information

RID/ADR

UN#: 2810

Class: 6.1

PG: III

Proper Shipping Name: Toxic liquid, organic, n.o.s.

IMDG

UN#: 2810

Class: 6.1

PG: III

Proper Shipping Name: Toxic liquid, organic, n.o.s.

Marine Pollutant: No

Severe Marine Pollutant: No

Technical Name: Required

IATA

UN#: 2810

Class: 6.1

PG: III

Proper Shipping Name: Toxic liquid, organic, n.o.s.

Inhalation Packing Group I: No

Technical Name: Required

Section 15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: T

Toxic.

R-PHRASES: 22-24-41

Harmful if swallowed. Toxic in contact with skin. Risk of serious damage to eyes.

S-PHRASES: 26-36/37/39-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 1

ID-Number: 1610

KBwS-Decision

Section 16 - Additional Information

Not Availbale