



## SAFETY DATA SHEET

### MONOETHANOLAMINE

#### 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: MONOETHANOLAMINE

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**  
82/80 Soi Ekamai 22 (Nuannoi), Sukhumvit 63,  
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#### 2. HAZARDS IDENTIFICATION

##### Label elements

Pictogram



Signal word

Danger

##### Hazard statement(s)

- 1.) Causes skin irritation.
- 2.) May be fatal if swallowed and enters airways.
- 3.) May cause drowsiness or dizziness.
- 4.) Toxic to aquatic life with long lasting effects.
- 5.) May damage the unborn child. Suspected of damaging fertility.

##### Precautionary statement(s)

- 1.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 2.) Avoid release to the environment.
- 3.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.



4.) IF IN EYES: Rinse cautiously with water for 15 minutes.

5.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonym:** Ethanolamine; beta-Aminoethanol; ethylolamine; glycinol

Ingredients	% (w/w)	CAS NO.
MONOETHANOLAMINE	100	141-43-5

### 4. FIRST AID MEASURES

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

**Inhalation:** If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

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

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**

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

**Unsuitable Extinguishing Media:**

No data available

**Specific hazards arising from Chemicals:**

No data available

**Special protective equipment for fire-fighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Use personal protective equipment. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas.



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

**Methods and Material for Containment and Clean Up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling & Product Transfer:

Avoid inhalation of vapour or mist. Avoid exposure - obtain special instructions before use. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for Safe Storage & Unsuitable Materials :

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.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National occupational exposure limits:** No data available

**Appropriate Engineering Controls:** No data available

### Individual Protection Measures

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of 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).

**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.

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



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form, Color and Odor</b> : liquid, colourless, fruity	<b>Evaporation rate</b> : N/A
<b>Melting Point</b> : N/A	<b>Specific gravity</b> : 1.02 g/cm <sup>3</sup> at 20 °C
<b>pH</b> : N/A	<b>Solubility in water</b> : Soluble
<b>Boiling point</b> : 170 °C	<b>Viscosity</b> : N/A
<b>Vapour pressure</b> : N/A	<b>Vapour density</b> : N/A
<b>Lower explosive limits</b> : 5.5 %Vol	<b>Upper explosive limits</b> : 17 %Vol
<b>Auto-ignition temperature</b> : 410 °C	<b>Flash Point</b> : 85 °C
<b>Odour threshold</b> : N/A	<b>Flammability (solid, gas)</b> : N/A
<b>Decomposition temperature</b> : N/A	<b>Solubility in other solvents</b> : N/A
<b>n-octanol/water partition coefficient (log P<sub>ow</sub>)</b> : N/A	

## 10. STABILITY AND REACTIVITY

<b>Chemical stability:</b>	Stable
<b>Reactions:</b>	No data available
<b>Possibility of Hazardous Reactions:</b>	No data available
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Materials to avoid:</b>	Strong oxidizers.
<b>Hazardous decomposition products:</b>	Material does not decompose at temperatures.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	LD50 Oral, rat - 1720 mg/kg
<b>Sensitization:</b>	No data available
<b>Chronic toxicity:</b>	No data available
<b>Further toxicological information:</b>	No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Toxicity to fish:	Not expected to be harmful to aquatic organisms.
Toxicity to algae:	Not expected to demonstrate chronic toxicity to aquatic organisms.



Toxicity to bacteria: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

**Biodegradability Remarks:** No data available

**Bioaccumulative Potential:** No data available

**Mobility:** No data available

**Affected in any other way:** No data available

### 13. DISPOSAL CONSIDERATIONS

**Material 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. Contact a licensed professional waste disposal service to dispose of this material.

**Container Disposal:** Dispose of as unused product.

### 14. TRANSPORT INFORMATION

#### ADR/RID

UN-No: 2491 Class: 8 Packing group: III

Proper shipping name: ETHANOLAMINE

#### IMDG

UN-No: 2491 Class: 8 Packing group: III

Proper shipping name: ETHANOLAMINE

#### IATA

UN-No: 2491 Class: 8 Packing group: III

Proper shipping name: ETHANOLAMINE

### 15. REGULATORY INFORMATION

#### GHS - Labelling:

##### Hazard statement(s)

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H360Fd May damage fertility. Suspected of damaging the unborn child.



### Precautionary statement(s)

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

### Hazard symbol(s)

T Toxic

### R-phrases(s)

R60 May impair fertility.

R61 May cause harm to the unborn child.

R20/21/22 Also harmful by inhalation, in contact with skin and if swallowed.

### S-phrases(s)

S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 16. OTHER INFORMATION

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