



ACP

# Asiatic Chemicals Pakistan

Building the Partnership, it's Asiatic Business Principle!

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### · **Chemical characterization:**

#### · **CAS No. Description**

141-43-5 2-aminoethanol

#### · **Identification number(s)**

· **EINECS Number:** 205-483-3

· **EU Number:** 603-030-00-8

### 3 Hazards identification

#### · **Hazard description:**



C Corrosive

#### · **Information concerning particular hazards for human and environment:**

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 34 Causes burns.

### 4 First aid measures

#### · **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### · **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

#### · **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

#### · **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

#### · **After swallowing:**

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

### 5 Fire-fighting measures

#### · **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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UAE

# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name: Monoethanolamine**

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- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

#### 141-43-5 2-aminoethanol

PEL (USA)	6 mg/m <sup>3</sup> , 3 ppm
REL (USA)	Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 8 mg/m <sup>3</sup> , 3 ppm
TLV (USA)	Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 7.5 mg/m <sup>3</sup> , 3 ppm
WEL (Great Britain)	Short-term value: 15 mg/m <sup>3</sup> , 6 ppm Long-term value: 7.6 mg/m <sup>3</sup> , 3 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name: Monoethanolamine**

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· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

· **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Ammonia-like

· **Change in condition**

**Melting point/Melting range:** 10.3°C

**Boiling point/Boiling range:** 170°C

· **Flash point:** 93°C

· **Ignition temperature:** 385°C

· **Danger of explosion:** Product does not present an explosion hazard.

· **Vapour pressure at 20°C:** 0.3 hPa

· **Density at 20°C:** 1.01 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 1.000 g/l

· **Viscosity:**  
**Dynamic at 20°C:** 23 mPas

### 10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name: Monoethanolamine**

(Contd. of page 3)

· **Dangerous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

Oral	LD50	2050 mg/kg (rat)
Dermal	LD50	1000 mg/kg (rabbit)

· **Primary irritant effect:**

· **on the skin:** Caustic effect on skin and mucous membranes.

· **on the eye:** Strong caustic effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

### 12 Ecological information

· **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

### 13 Disposal considerations

· **Product:**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 8 Corrosive substances.

· **Danger code (Kemler):** 80

· **UN-Number:** 2491

· **Packaging group:** III

· **Hazard label:** 8

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# Material Safety Data Sheet

## According to 91/155 EEC

**Trade name: Monoethanolamine**

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· **Description of goods:** 2491 ETHANOLAMINE

· **Maritime transport IMDG:**



· **IMDG Class:** 8  
 · **UN Number:** 2491  
 · **Label** 8  
 · **Packaging group:** III  
 · **EMS Number:** F-A,S-B  
 · **Proper shipping name:** ETHANOLAMINE

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 8  
 · **UN/ID Number:** 2491  
 · **Label** 8  
 · **Packaging group:** III  
 · **Proper shipping name:** ETHANOLAMINE

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

C Corrosive

· **Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

34 Causes burns.

· **Safety phrases:**

1/2 Keep locked up and out of the reach of children.

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

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Terminal Manager