



Arak Petrochemical Company



ISO 9001:2000

Certificate No.: CH98/8032

ISO 14001:2004

Certificate No.: CH03/0112

OHSAS 18001:1999

Certificate No.: CH05/0675

Address:

No. 3, Taban St.
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(+98 21)82122700

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(+98 21)8867 4126-27

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Monoethanolamine (MEA) 99%
CHEMICAL FORMULA: C₂H₇NO
CAS Number: 141-43-5
EINECS Number: 205-483-3
MANUFACTURER: Shazand Petrochemical Corporation No.68.,
West Taban St., Vali-e-Asr Ave., Tehran-Iran
Tel: (+98 21)821227-04 Fax: (+98 21)88674126-37

EMERGENCY

TELEPHONE NUMBER: (+98 86) 32633

2. HAZARD IDENTIFICATION

GHS Classification:

- Acute toxicity, inhalation (Category 4)
- Skin corrosion/irritation (Category 1B)
- Serious eye damage (Category 1)

GHS Label Elements:

- **Signal Word:** Danger
- **Hazard Statements:**
 - Causes severe skin burns and eye damage.
 - Harmful if inhaled.
 - May cause respiratory irritation.
- **Precautionary Statements:**
 - Wear protective gloves, clothing, and eye/face protection
 - Avoid breathing vapors.
 - Store locked up and in a well-ventilated area.

GHS Pictograms:



3. COMPOSITION / INFORMATION ON THE COMPONENTS

Component	CAS Number	Amount
Monoethanolamine	141-43-5	≥99%
Water	7732-18-5	≤0.2%
Diethanolamine (DEA)	111-42-2	≤0.5%



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4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, provide artificial respiration. Seek medical attention.

Skin Contact: Wash thoroughly with water for at least 15 minutes. Remove contaminated clothing.

Eye Contact: Rinse with water for at least 15 minutes. Seek immediate medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth and seek medical help immediately.

5. FIREFIGHTING MEASURES:

Suitable Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide.

Specific Hazards: May emit toxic fumes when heated.

Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES:

Use personal protective equipment (PPE).

Contain and absorb spill with inert material (e.g., sand or earth).

Avoid contact with skin and eyes.

Ensure adequate ventilation.

7. HANDLING AND STORAGE:

Handling:

- Use only in well-ventilated areas.
- Avoid inhalation and skin contact.

Storage:

- Keep in a cool, dry, and well-ventilated place.
- Store in corrosion-resistant containers (stainless steel, polyethylene).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Exposure Limits:

- ACGIH TLV: 3 ppm (TWA)
- OSHA PEL: 3 ppm (TWA)

Personal Protective Equipment (PPE):

- **Respiratory Protection:** Use approved respirator when exposure exceeds limits.
- **Hand Protection:** Chemical-resistant gloves.
- **Eye Protection:** Safety goggles or face shield.
- **Skin Protection:** Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Property	Value
Appearance	Clear, colorless liquid
Odor	Ammonia-like
Boiling Point	170°C



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Property	Value
Flash Point	96°C (Closed Cup)
Odor	Ammonia-like
pH (10% Solution)	11.5 - 12.5
Specific Gravity (20°C)	1.011 - 1.018
Solubility	Miscible with water

10. STABILITY AND REACTIVITY:

Reactivity: Reacts with acids and oxidizing agents.

Chemical Stability: Stable under normal conditions.

Hazardous Decomposition Products: CO, CO₂, NO_x under combustion.

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity: Harmful if inhaled or ingested.

Skin Corrosion/Irritation: Causes severe burns.

Serious Eye Damage/Irritation: Causes serious eye damage.

Carcinogenicity: Not classified as carcinogenic.

12. ECOLOGICAL INFORMATION:

Biodegradability: Readily biodegradable.

Toxicity to Aquatic Life: Harmful in large quantities.

Persistence and Degradability: Low environmental persistence.

13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with local, state, and federal regulations.
Do not discharge into drains or waterways.

14. TRANSPORT INFORMATION:

UN Number: 2491

Hazard Class: 8 (Corrosive)

Packing Group: III

Proper Shipping Name: Ethanolamine or Ethanolamine solutions

15. REGULATORY INFORMATION:

REACH Compliance (Regulation (EC) No 1907/2006).

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

16. OTHER INFORMATION:

The information provided in this MSDS is based on our best knowledge and should be used as a guideline for safe handling. Users must determine the suitability for their specific application.

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