

FR-QC-14/Rev 00

1. Product and Company Identification

Material name: **Monoethanolamine**

Revision date: -

CAS Number: 141-43-5

Manufacturer: Padideh Shimi Gharb Co.

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2. Hazards Identification

HSNO Hazard Classification Production non-hazardous

Emergency overview Flammable solid. The toxicological properties of this material

have not been fully investigated. Causes eye, skin, and respiratory tract irritation. Target Organs: Respiratory system,

eyes, skin.

Potential health effects

Eyes: Causes eye irritation. May cause chemical conjunctivitis.

Skin: If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical

attention.

Inhalation: Do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if

symptoms appear.

Ingestion: May be harmful if inhaled.

3. Composition / Information on Ingredients

Components	Percent	Molecular weight	Formula
Monoethanolamine % by weight	> 99.0	61.0 - 62.5 g/mol	C_2H_7NO

4. First Aid Measures

First aid procedures

Eye contact: Check for and remove any contact lenses. Immediately flush

eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention immediately. Finish by rinsing thoroughly with running water

to avoid a possible infection.

Skin contact: In case of contact, immediately flush skin with plenty of water

for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold



Inhalation:

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water may be used. Wash clothing before reuse. Thoroughly

clean shoes before reuse. Get medical attention immediately. If inhaled, remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical

attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a

collar, tie, belt or waistband.

Notes to physician: Symptoms may be delayed.

General advice: Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties Combustible **Auto-ignition Temperature:** $410 \, ^{\circ}\text{C} \, (770 \, ^{\circ}\text{F})$

Flash Points: CLOSED CUP: 86°C (186.8°F).

OPEN CUP: 93.34°C (200°F) (Cleveland).

Flammable Limits: LOWER: 3% UPPER: 23.5%

Products of Combustion: These products are carbon oxides (CO, CO2),

nitrogen oxides (NO, NO2...).

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Protection of firefighters: Specific hazards arising from the chemical. During fire, gases

hazardous to health may be formed.

Protective equipment and precautions for

firefighters:

Specific methods:

Wear self-contained breathing apparatus for firefighting if

necessary.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards

of other involved materials.

6. Accidental Release Measures

Personal precautions: Use rubber gloves, air respirator, goggles, safety shoes and lab

coat. Remove contaminated clothing and wash hands between breaks and at end of duty hours. Locate eye washes and

emergency showers in all work and storage areas.

Environmental precautions: Do not let product enter drains.

Methods for containment: Eliminate all ignition sources (no smoking, flares,

sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material,

where this is possible. Collect spillage.

Methods for cleaning up: Remove all potential ignition sources. Contain spilled

material. Cover with an inert or noncombustible inorganic absorbent material, sweep up and remove to an approved disposal container. Clean with hot water & detergents.

Observe state, federal & local disposal regulations.



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7. Handling and Storage

Handling: Keep container dry. Keep away from heat. Keep away from

sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles

such as oxidizing agents, acids.

Storage: Keep container in a cool, well-ventilated area. Keep container

tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in

light-resistant containers. Hygroscopic.

8. Exposure Controls / Personal Protection

Exposure limits of the chemical

substance, biological exposure limits

and etc.

Appropriate engineering controls: Use normal precautionary measures for handling chemicals.

one established.

Personal protective equipment

Protection of respiratory system: ear air respirator

Eye protection: Wear goggles

Hand protection: ear protective gloves

Body protection: Wear protective clothing, safety shoes

Hand protection: Wear protective gloves

Body protection: Wear protective clothing, safety shoes

9. Physical & Chemical Properties

Physical state and appearance: Liquid. (Viscous liquid.)

Odor: Ammoniacal. Fish. Unpleasant.

Taste Not available.

Molecular Weight 61.0 - 62.5 g/mole
Color Colorless. Clear

pH (1% soln/water) > 10

Specific Gravity 1.016 - 1.020 (Water = 1)

Water Max. 0.2

10. Stability & Reactivity

Chemical stability: The product is stable.

Conditions to avoid: Heat, ignition sources, incompatible materials, light, moisture.

Incompatible materials: Reactive with oxidizing agents, acids.

Hazardous decomposition products: Upon decomposition, this product may yield sulfur dioxide and

oxides of sulfur.



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Corrosivity: Highly corrosive in presence of aluminum, of copper.

11. Toxicological Information

Information on toxicological effects

Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Skin corrosion/irritation:

Serious eye damage/eye irritation:

Respiratory or skin sensitization:

Germ cell mutagenicity:

Not available

Not available

Potential health effects

Inhalation:Not availableIngestion:Not availableSkin:Not availableEyes:Not available

Signs and symptoms of exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Effects on the Environment

Toxicity: Not available

Persistence and degradability: Readily biodegradable

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

Not available

Not available

13. Disposal Considerations

Disposal methods: Waste may be disposed of by a licensed waste disposal

company.

Follow local, state and federal disposal regulations.

Disposal instructions: Dispose in accordance with all applicable regulations.

Waste from residues/unused products: Dispose of in accordance with local regulations. Empty

containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste

handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings

even after container is emptied.

14. Transport Information

DOT Classification: Class 8: Corrosive material

Identification: Ethanolamine UNNA: 2491 PG: III

Special Provisions for Transport Not available.



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15. Regulatory Information	15.	Regu	latory	Infor	mation
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Reportable Quantity: Not available.

16. Other Information

HMIS® ratings (estimated): Health: 1

Flammability: 1 Physical hazard: 0 Personal protection: E

NFPA ratings (estimated): Health: 1

Flammability: 1 Instability: 0

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