

Safety Data Sheet: Aminoethylethanolamine (AEEA)

1. Identification

Product	Aminoethylethanolamine (AEEA); CAS 111-41-1; EC 203-867-5
Use	Industrial amino alcohol intermediate for chemical synthesis.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Aminoethylethanolamine (AEEA). The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Skin corrosion 1B; eye damage 1; skin sensitization 1; reproductive toxicity 1B; STOT single exposure 3, respiratory tract.
Signal word / symbols	Danger; GHS05, GHS07, GHS08
Hazard statements	H314/H318: corrosive contact injury. H317: skin sensitization. H335: respiratory irritation. H360: fertility or developmental harm.
Prevention	Use adequate ventilation; avoid inhaling mist. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Aminoethylethanolamine, CAS 111-41-1, ≤100% in the substance reference. Supply assay ≥99.6 wt%.
Supply grade	Assay ≥99.6 wt%
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Obtain urgent treatment for chemical burns.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Obtain urgent medical care.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain emergency medical attention.
Effects / treatment	Burns, allergic skin response and respiratory irritation; reproductive hazard. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, carbon dioxide or dry powder. Firefighters require self-contained breathing equipment and chemical protection.
Hazards	Carbon and nitrogen oxides during fire.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and mist exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Stop the leak if safe. Absorb liquid with a compatible inert material and collect in closed labelled containers. Do not wash into drains.

7. Handling and Storage

Handling	Use controlled transfer and effective ventilation. Avoid generating mist and prevent contamination of the work area.
Storage	Keep tightly closed in a cool, dry, ventilated area protected from light. Restrict access to trained personnel; segregate acids, oxidizers, copper, zinc and nitrite-containing materials.
Incompatibilities	Oxidizers, acids, copper, zinc and nitrites/nitrates; nitrosamine formation is possible.
Specific use	Evaluate compatibility and appropriate operating conditions in the complete formulation before industrial use.

8. Exposure Controls / Personal Protection

Exposure limits	The selected reference gives no substance-specific occupational limit. Apply jurisdiction-specific requirements and control mist or vapor exposure.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Clear liquid
Formula / molecular weight	C ₄ H ₁₂ N ₂ O / 104.15 g/mol
Boiling range, SDS reference	237–243°C
Flash point, SDS reference	144°C
Density at 20°C	1.03 g/cm ³
Other properties	Product-specific values for odor threshold, vapor pressure, partition coefficient, autoignition temperature and viscosity are not supplied by the selected reference set. No values are inferred.

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Oxidizers, acids, copper, zinc and nitrites/nitrates; nitrosamine formation is possible.
Decomposition	Carbon and nitrogen oxides during fire.

11. Toxicological Information

Exposure effects	Burns, allergic skin response and respiratory irritation; reproductive hazard.
Reference classification	Skin corrosion 1B; eye damage 1; skin sensitization 1; reproductive toxicity 1B; STOT single exposure 3, respiratory tract.
Toxicological data	Reference oral rat LD ₅₀ 3,000 mg/kg; dermal rabbit LD ₅₀ >2,000 mg/kg. Corrosive and reproductive hazards remain significant.

12. Ecological Information

Environmental effects	Not readily biodegradable in the reference. Prevent release to drains, soil and water.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Class 8 — Corrosive
UN number	UN 2735
Shipping name	Amines, liquid, corrosive, n.o.s. (Aminoethylethanolamine)
Class / packing group	ADR/RID, IMDG and IATA: Class 8, packing group II. Not a marine pollutant in this reference.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Aminoethylethanolamine (AEEA); CAS 111-41-1; EC 203-867-5
HS reference	292219; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H314/H318: corrosive contact injury. H317: skin sensitization. H335: respiratory irritation. H360: fertility or developmental harm.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

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