



Common Name: **AMINOETHYLETHANOLAMINE**

Synonyms: A-EA; (2-Hydroxyethyl)Ethylenediamine

CAS No: 111-41-1

Molecular Formula: C₄H₁₂N₂O

RTK Substance No: 0074

Description: Clear, colorless, slightly thick liquid with an *Ammonia*-like odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health 1 - Fire 0 - Reactivity DOT#: UN 2735 ERG Guide #: 153 Hazard Class: 8 (Corrosive)	May burn, but does not readily ignite. Use dry chemical, CO ₂ , water spray, alcohol-resistant foam or other foam as extinguishing agents. Using water or foam directly on Aminoethylethanolamine may cause frothing and solid streams of water may be ineffective. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> . CONTAINERS MAY EXPLODE IN FIRE. Use water spray to keep fire-exposed containers cool.	Aminoethylethanolamine reacts violently with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); and CELLULOSE NITRATE. Aminoethylethanolamine is not compatible with HALOGENATED SOLVENTS (such as TRICHLOROETHANE and METHYLENE CHLORIDE); NITRITES; ALCOHOLS; ALDEHYDES; CRESOLS; EPICHLOROHYDRIN; ISOCYANATES; KETONES; PHENOL; and VINYL ACETATE. In the presence of ALUMINUM and HEAT, explosive and flammable Hydrogen gas may be formed.

SPILL/LEAKS

Isolation Distance:

Small Spill: 30 meters (100 feet)

Large Spill: 60 meters (200 feet)

Fire: 800 meters (1/2 mile)

Absorb liquids in vermiculite, dry sand, earth, or a similar material and place into sealed containers.

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Odor Threshold:	<i>Ammonia</i> -like
Flash Point:	270°F (132°C)
LEL:	1%
UEL:	8%
Auto Ignition Temp:	695°F (368°C)
Vapor Density:	3.6 (air = 1)
Vapor Pressure:	<0.01 mm Hg at 68°F (20°C)
Specific Gravity:	1 (water = 1)
Water Solubility:	Soluble
Boiling Point:	470°F (243°C)
Freezing Point:	-49°F (-45°C)
pH:	11.5
Molecular Weight:	104

EXPOSURE LIMITS

The Protective Action Criteria values are:

PAC-1 = 35 mg/m³

PAC-2 = 250 mg/m³

PAC-3 = 500 mg/m³

PROTECTIVE EQUIPMENT

Gloves:	Silver Shield®/4H® and Barrier® (>4-hr breakthrough)
Coveralls:	Tychem® BR, LV, Responder®, and TK; Zytron® 500; ONESuit® TEC; and Trelchem® HPS and VPS (>8-hr breakthrough for <i>Diethylamine</i>)
Respirator:	Supplied air or SCBA

HEALTH EFFECTS

Eyes:	Irritation and burns
Skin:	Irritation and burns
Inhalation:	Nose, throat and lung irritation with coughing, wheezing and shortness of breath.

FIRST AID AND DECONTAMINATION

Remove the person from exposure.
Flush eyes with large amounts of water for at least 30 minutes. Remove contact lenses if worn. Seek medical attention
Quickly remove contaminated clothing and wash contaminated skin with large amounts of water.
Begin artificial respiration if breathing has stopped and CPR if necessary.
Transfer promptly to a medical facility