

Common Name: **N-AMINOETHYLPIPERAZINE**

Synonyms: 1-(2-Aminoethyl) Morpholine

CAS No: 140-31-8

Molecular Formula: C<sub>6</sub>H<sub>15</sub>N<sub>3</sub>

RTK Substance No: 0075

Description: Thick, colorless to light colored liquid with an *Ammonia*-like odor

## HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<p><b>3 - Health</b></p> <p><b>2 - Fire</b></p> <p><b>0 - Reactivity</b></p> <p><b>DOT#:</b> UN 2815</p> <p><b>ERG Guide #:</b> 153</p> <p><b>Hazard Class:</b> 8 (Corrosive)</p>	<p><b>N-Aminoethylpiperazine</b> is a COMBUSTIBLE LIQUID.</p> <p>Use alcohol-resistant foam fire extinguishers.</p> <p>POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i>.</p> <p>CONTAINERS MAY EXPLODE IN FIRE.</p> <p>Use water spray to keep fire-exposed containers cool.</p> <p><b>N-Aminoethylpiperazine</b> may ignite combustibles (wood, paper and oil).</p>	<p><b>N-Aminoethylpiperazine</b> is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); ACID CHLORIDES; ACID ANHYDRIDES; ISOCYANATES; VINYL ACETATE; ACRYLATES; SUBSTITUTED ALKYLs; ALKYLENE OXIDES; EPICHLOROHYDRIN; KETONES; ALDEHYDES; ALCOHOLS; CAPROLACTAM SOLUTION; CHLOROFORMATES; COMBUSTIBLES; CARBON MONOXIDE; and NITRITES.</p>

### SPILL/LEAKS

**Isolation Distance:**

Small Spills: 60 meters (200 feet)

Large Spills: 800 meters (1/2 mile)

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

Not readily biodegradable.

### PHYSICAL PROPERTIES

<b>Odor Threshold:</b>	Ammonia-like odor
<b>Flash Point:</b>	200°F (93°C)
<b>LEL:</b>	1.6%
<b>UEL:</b>	6.5%
<b>Auto Ignition Temp:</b>	>572°F (300°C)
<b>Vapor Density:</b>	4.4 (air = 1)
<b>Vapor Pressure:</b>	0.1 mm Hg at 68°F (20°C)
<b>Specific Gravity:</b>	0.1 (water = 1)
<b>Water Solubility:</b>	Soluble
<b>Boiling Point:</b>	432°F (222°C)
<b>Molecular Weight:</b>	129.24

### EXPOSURE LIMITS

No occupational exposure limits have been established for **N-Aminoethylpiperazine**.

### PROTECTIVE EQUIPMENT

<b>Gloves:</b>	Butyl (4 hour breakthrough)
<b>Coveralls:</b>	DuPont Tychem® Responder®, CSM and TK; Kappler Zytron® 300; and Saint-Gobain ONESuit® PRO (>8-hour breakthrough)
<b>Respirator:</b>	Pressure demand supplied air

### HEALTH EFFECTS

<b>Eyes:</b>	Irritation and burns
<b>Skin:</b>	Irritation and burns
<b>Inhalation:</b>	Nose, throat and lung irritation with coughing, wheezing and shortness of breath  Headache, nausea and vomiting

### 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 immediately.

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of water. Seek medical attention immediately.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** to a medical facility.