

Common Name: **BUTYLAMINE**

Synonyms: 1-Butanamine; n-Butylamine

CAS No: 109-73-9

Molecular Formula: C<sub>4</sub>H<sub>11</sub>N

RTK Substance No: 0280

Description: Clear, colorless liquid with an Ammonia or fish-like odor.

### HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<b>3 - Health</b> <b>3 - Fire</b> <b>0 - Reactivity</b> <b>DOT#:</b> UN 1125 <b>ERG Guide #:</b> 132 <b>Hazard Class:</b> 3 (Flammable liquids)	<b>FLAMMABLE LIQUID</b> Use dry chemical, CO <sub>2</sub> , water spray, or alcohol-resistant foam.  <b>POISONOUS GASES ARE PRODUCED IN FIRE,</b> including <i>Nitrogen Oxides</i> . <b>CONTAINERS MAY EXPLODE IN FIRE.</b> Use water spray to keep fire-exposed containers cool. Vapors may travel to a source of ignition and flash back. Vapor is heavier than air and may travel a distance to cause a fire or explosion far from the source.	Contact with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and PERCHLORYL FLUORIDE may cause fires and explosions.  <b>Butylamine</b> is not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); COPPER; COPPER ALLOYS; ALUMINUM; ZINC; ISOCYANATES; ACROLEIN; PHENOLS; KETONES; ETHERS; GLYCOLS; ORGANIC HALOGENS; EPICHLOROHYDRIN; and ALCOHOLS.

### SPILL/LEAKS

**Isolation Distance:** 800 meters or ½ mile

Absorb liquid in sand or other inert absorbent.  
DO NOT let this chemical enter the environment.

### PHYSICAL PROPERTIES

**Odor Threshold:** 0.12 ppm  
**Flash Point:** 10°F (-12.2°C)  
**LEL:** 1.7%  
**UEL:** 9.8%  
**Vapor Density:** 2.5 (air = 1)  
**Vapor Pressure:** 82 mm Hg at 68°F (20°C)  
**Water Solubility:** Miscible  
**Boiling Point:** 172°F (78°C)  
**Ionization Potential:** 8.71 eV

### EXPOSURE LIMITS

**OSHA:** 5 ppm, Ceiling  
**NIOSH:** 5 ppm, Ceiling  
**ACGIH:** 5 ppm, Ceiling  
**IDLH LEVEL:** 300 ppm

### PROTECTIVE EQUIPMENT

**Gloves:** Butyl Rubber  
**Coveralls:** DuPont Tychem® CPF3, BR, LV, Responder® and TK  
**Boots:** No information  
**Respirator:** >5 ppm APR with cartridge specific for **Butylamine**  
 >50 ppm Supplied Air  
 >300 ppm SCBA

### HEALTH EFFECTS

**Eyes:** Irritation and burns  
**Skin:** Irritation, burns and blisters  
**Acute:** Nose, throat and lung irritation with coughing, and shortness of breath (pulmonary edema)  
**Chronic:** Bronchitis with coughing, phlegm and/or shortness of breath

### FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.  
**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn. Seek medical attention immediately.  
**Quickly** remove contaminated clothing. Wash contaminated skin with large amounts of soap and water.  
**Begin** artificial respiration if breathing has stopped and CPR if necessary.  
**Transfer** to a medical facility.  
**Medical** observation is recommended as symptoms may be delayed.