

Common Name: **2-BUTOXY ETHANOL**

Synonyms: Butyl Cellosolve; Ethylene Glycol Monobutyl Ether; EGBE

CAS No: 111-76-2

 Molecular Formula: C₆H₁₄O₂

RTK Substance No: 0275

Description: Colorless liquid with a mild odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
3 - Health 2 - Fire 0 - Reactivity DOT#: UN 2369 ERG Guide #: 152 Hazard Class: 6.1 (Poison)	COMBUSTIBLE LIQUID Use dry chemical, CO ₂ , water spray or alcohol-resistant foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE. CONTAINERS MAY EXPLODE IN FIRE. Use water spray to keep fire-exposed containers cool.	2-Butoxy Ethanol is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE) and STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE). 2-Butoxy Ethanol forms <i>Peroxides</i> on exposure to AIR and LIGHT.

SPILL/LEAKS
Isolation Distance:

Spill: 50 meters (150 feet)

Fire: 800 meters (1/2 mile)

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

DO NOT wash into sewer.

PHYSICAL PROPERTIES

Odor Threshold:	0.1 ppm
Flash Point:	140° to 160°F (60° to 71°C)
LEL:	1.1%
UEL:	10%
Auto Ignition Temp:	472°F (244°C)
Vapor Density:	4.1 (air = 1)
Vapor Pressure:	0.8 mm Hg at 68°F (20°C)
Specific Gravity:	0.9 (water = 1)
Water Solubility:	Miscible
Boiling Point:	340°F (171°C)
Melting Point:	-94°F (-70°C)
Ionization Potential:	10 eV
Molecular Weight:	118.2

EXPOSURE LIMITS
OSHA: 50 ppm, 8-hr TWA

NIOSH: 5 ppm, 10-hr TWA

ACGIH: 20 ppm, 8-hr TWA

IDLH: 700 ppm

PROTECTIVE EQUIPMENT

Gloves:	Butyl, Nitrile, Neoprene, Silver Shield®/4H® and Viton (>8-hr breakthrough)
Coveralls:	DuPont Tychem® SL and Responder®; Kappler® Zytron® 500; and Saint-Gobain ONESuit® TEC (>8-hr breakthrough for <i>Glycol Ethers</i>)
Respirator:	>5 ppm - Full facepiece APR with Organic vapor filter >50 ppm - Supplied air

HEALTH EFFECTS

Eyes:	Irritation with possible eye damage
Skin:	Irritation
Inhalation:	Nose and throat irritation with coughing and wheezing Nausea, vomiting, headache, dizziness, confusion and passing out
Chronic:	Cancer (liver) in animals

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.
Quickly	remove contaminated clothing and wash contaminated skin with large amounts of soap and water. Seek medical attention.
Begin	artificial respiration if breathing has stopped and CPR if necessary.
Transfer	promptly to a medical facility.