

Common Name: **2-METHOXYETHYL ACETATE**

Synonyms: EGMEA; Methyl Cellosolve® Acetate

CAS No: 110-49-6

 Molecular Formula: C₅H₁₀O₃

RTK Substance No: 1212

Description: Colorless liquid with a pleasant odor

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
2 - Health 2 - Fire 0 - Reactivity DOT#: UN 1189 ERG Guide #: 129 Hazard Class: 3 (Flammable)	COMBUSTIBLE LIQUID Use dry chemical, CO ₂ , water spray, alcohol-resistant foam or other foam as extinguishing agents. POISONOUS GASES ARE PRODUCED IN FIRE. Use water spray to keep fire-exposed containers cool.	2-Methoxyethyl Acetate reacts slowly with WATER to form <i>Acetic Acid</i> and <i>Methyl Alcohol</i> . 2-Methoxyethyl Acetate is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); STRONG BASES (such as SODIUM HYDROXIDE and POTASSIUM HYDROXIDE); and STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC).

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 place into sealed containers for disposal.

 Keep **2-Methoxyethyl Acetate** out of confined spaces, such as sewers, because of the possibility of an explosion.

DO NOT wash into sewer.

2-Methoxyethyl Acetate is harmful to aquatic organisms.

PHYSICAL PROPERTIES

Odor Threshold:	0.64 ppm
Flash Point:	120°F (49°C)
LEL:	1.5%
UEL:	12.3 %
Auto Ignition Temp:	740°F (393°C)
Vapor Density:	4.1 (air = 1)
Vapor Pressure:	2 mm Hg at 68°F (20°C)
Specific Gravity:	1.01 (water = 1)
Water Solubility:	Soluble
Boiling Point:	293°F (145°C)
Freezing Point:	-85°F (-65°C)
Molecular Weight:	118.1

EXPOSURE LIMITS

OSHA:	25 ppm, 8-hr TWA
NIOSH:	0.1 ppm, 10-hr TWA
ACGIH:	0.1 ppm, 8-hr TWA
IDLH:	200 ppm

The Protective Action Criteria values are:

PAC-1 = 0.3 ppm	PAC-3 = 200 ppm
PAC-2 = 20 ppm	

PROTECTIVE EQUIPMENT

Gloves:	Butyl, Silver Shield®/4H®, and Barrier® (>4-hr breakthrough)
Coveralls:	Tychem® BR, LV, Responder®, and TK (>8-hr breakthrough)
Respirator:	>0.1 ppm - Supplied air >0.3 ppm - SCBA

HEALTH EFFECTS

Eyes:	Irritation
Skin:	Irritation
Inhalation:	Nose, throat and lung irritation with coughing and severe shortness of breath (pulmonary edema) Headache, vomiting, dizziness, confusion, lightheadedness, and passing out

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.
Quickly	remove contaminated clothing and wash contaminated skin with large amounts of soap and water.
Begin	artificial respiration if breathing has stopped and CPR if necessary.
Transfer	promptly to a medical facility.
Medical	observation is recommended as symptoms may be delayed.