



METHOXY PROPYL ACETATE

1. PRODUCT IDENTIFICATION:

Synonyms: Propylene glycol monomethyl ether acetate, MPA, 1-Methoxy-2-propyl acetate, 1,2-Propanediol monomethyl ether acetate, Propylene glycol methyl ether acetate, PGMEA

CAS No.: 108-65-6

Molecular Weight: 132.16

Chemical Formula: C₆H₁₂O₆

COMPANY IDENTIFICATION:

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2. HAZARDS IDENTIFICATION:

OSHA/GHS:	Flammable liquids	Category 3
Hazards:	Reproductive toxicity	Category 1B
	Acute aquatic toxicity	Category 3

LABEL ELEMENTS

Hazard symbols:



Signal word: Danger

Hazard statements:

H226	Flammable liquid and vapor.
H360	May damage fertility or the unborn child.
H402	Harmful to aquatic life.

Precautionary statements:

Prevention:

P201	Obtain special instructions before use.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

Components	CAS-No.	Percent
Methoxy propyl acetate	108-65-6	99-100%

4. FIRST AID MEASURES:

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Eye contact	Flush eyes with water as a precaution.
Skin contact	Wash off with soap and plenty of water. Consult a physician.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	If swallowed, Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE FIGHTING MEASURES:

FLAMMABLE PROPERTIES:

Conditions of flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment and precautions for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
Hazardous combustion products	Hazardous decomposition products formed under fire conditions. - Carbon oxides
Further information	Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE:

Precautions for safe handling	Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

PERSONAL PROTECTIVE EQUIPMENT:

Eyes	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin	impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Clear, liquid
Color	colorless
Odor	Ethereal odor
Odor Threshold	No data available
Flash point	43 °C (109 °F) - closed cup
Flammability	Upper explosion limit: 13.1 %(V) Lower explosion limit: 1.3 %(V)
Boiling point/boiling range	145 - 146 °C (293 - 295 °F)
Melting point/range	< -87 °C (< -125 °F)
Auto-ignition temperature	315 °C (599 °F)
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapor pressure	3.37 hPa (2.53 mmHg) at 20 °C (68 °F)
Vapor density	No data available
Density	0.97 g/cm ³ at 25 °C (77 °F)
Relative density	No data available
Water solubility	19.8 g/l at 25 °C (77 °F)
Viscosity	1.13 mm ² /s at 25 °C
Viscosity, dynamic	No data available
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: 0.43

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

no data available

Conditions to Avoid:

Heat, flames and sparks.

Materials to avoid:

Strong oxidizing agents

Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION:

Inhalation rat LC50: no data available; oral rat LD50: 8532 mg/kg; Skin rabbit LD50: > 5000 mg/kg.

12. ECOLOGICAL INFORMATION:

Eco toxicity:

No data available. Static acute LC50 for Fathead Minnow is 161 mg/l. Material is practically non-toxic to fish on an acute basis (LC50>100 mg/l). Static acute LC50 for daphnids (Daphnia magna) is reported to be 408 mg/L. Material is practically non-toxic to aquatic invertebrates on a static acute basis (LC50>100 mg/l).

Environmental Toxicity:

No information available.

Physical:

No information available.

13. DISPOSAL CONSIDERATIONS:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION:

US DOT	UN 1993, Methoxy propyl acetate, 3, III FLAMMABLE LIQUIDS, N.O.S.
Canada TDG	UN 1993, Methoxy propyl acetate, 3, III FLAMMABLE LIQUID NOS (METHOXYPROPYLACETATE)

15. OTERE INFORMATION:

NFPA Ratings: Health: 1 Flammability: 2 Reactivity: 0

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.



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