

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 16.09.2023

Product: **METHOXYPROPYLACETATE**

Version: 4.0

(30034751/SDS\_GEN\_TH/EN)

Date of print: 14.10.2025

## 1. Substance/preparation and manufacturer/supplier identification

**Product name:**  
**METHOXYPROPYLACETATE**

Use: process chemical, solvent(s)

Manufacturer/supplier:

BASF (Thai) Limited  
23rd Floor, Emporium Tower, 622, Sukhumvit 24 Rd.,  
Klongton, Klongtoey, Bangkok 10110, THAILAND  
Telephone: +66 2624-1999  
Telefax number: +66 2664-9254  
E-mail address: Thailand-SDS-info@basf.com

Emergency information:

International emergency number:  
Telephone: +49 180 2273-112

## 2. Hazard identification

**Classification according to UN GHS 2009**

Classification of the substance and mixture:

Flammable liquids: Cat.3

Specific target organ toxicity — single exposure: Cat.3 (Vapours may cause drowsiness and dizziness.)

Label elements and precautionary statement:

Pictogram:



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Signal Word:

Warning

Hazard Statement:

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280 Wear protective gloves and eye protection or face protection.  
P261 Avoid breathing mist or vapour or spray.  
P243 Take action to prevent static discharges.  
P241 Use explosion-proof electrical, ventilating and lighting equipment.  
P240 Ground and bond container and receiving equipment.  
P242 Use non-sparking tools.

Precautionary Statements (Response):

P312 Call a POISON CENTER or physician if you feel unwell.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P370 + P378 In case of fire: Use ... to extinguish.

Precautionary Statements (Storage):

P233 Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.  
See section 12 - Results of PBT and vPvB assessment.

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### 3. Composition/information on ingredients

#### Chemical nature

Substance nature: Substance

1-methoxy-2-propylacetate (Content (W/W):  $\geq 99.5\%$ )  
CAS Number: 108-65-6

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stabilized with:

2,6-di-tert-butyl-p-cresol  
CAS Number: 128-37-0

### **Hazardous ingredients**

1-methoxy-2-propylacetate	
Content (W/W): $\geq 99.5\%$ - $< 100\%$	Flam. Liq.: Cat. 3
CAS Number: 108-65-6	STOT SE: Cat. 3 (drowsiness and dizziness)
2-methoxypropyl acetate	
Content (W/W): $\geq 0\%$ - $< 0.3\%$	Flam. Liq.: Cat. 3
CAS Number: 70657-70-4	Repr.: Cat. 1B (unborn child)
	STOT SE: Cat. 3 (irr. to respiratory syst.)

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## **4. First-Aid Measures**

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician:

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Hazards: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11. (Further) symptoms and / or effects are not known so far

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:

| dry powder, water spray, carbon dioxide, alcohol-resistant foam

Unsuitable extinguishing media for safety reasons:

| water jet

Additional information:

| Use extinguishing measures to suit surroundings.

Specific hazards:

| Flammable liquid Cool endangered containers with water-spray. See SDS section 7 - Handling and storage.

Special protective equipment:

| Wear a self-contained breathing apparatus. Special protective equipment for firefighters

Further information:

| Evacuate area of all unnecessary personnel. Fight fire from maximum distance.

Further information:

| Extend fire extinguishing measures to the surroundings. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:

Handle in accordance with good industrial hygiene and safety practice.

| Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions:

Discharge into the environment must be avoided.

Methods for cleaning up or taking up:

| Pick up with suitable appliance and dispose of. Spills should be contained, solidified, and placed in suitable containers for disposal. Dispose of absorbed material in accordance with regulations.

Additional information: High risk of slipping due to leakage/spillage of product.

Release of substance/product can cause fire or explosion. Shut off or stop source of leak. Shut off or stop released substance/product under safe conditions.

Pack in tightly closed containers for disposal.

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## 7. Handling and Storage

### Handling

| Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

### Storage

Unsuitable materials for containers: Low density polyethylene (LDPE), Paper/Fibreboard

Further information on storage conditions: Containers should be stored tightly sealed in a dry place.

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## 8. Exposure controls and personal protection

### Components with occupational exposure limits

No substance specific occupational exposure limits known.

### Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):

butyl rubber (butyl) - 0.7 mm coating thickness

Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)

chloroprene rubber (CR) - 0.5 mm coating thickness

nitrile rubber (NBR) - 0.4 mm coating thickness

Manufacturer's directions for use should be observed because of great diversity of types.

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

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General safety and hygiene measures:

Avoid contact with eyes. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

## 9. Physical and Chemical Properties

Form:	liquid	
Colour:	colourless	
Odour:	ether-like	
Odour threshold:	not determined	
pH value:	not applicable	
Melting point:	-66 °C (1,013.25 hPa) Literature data.	(measured)
Boiling point:	145.8 °C (1,013.25 hPa) Extrapolated value	(OECD Guideline 103)
Flash point:	45.5 °C	(ASTM D3278, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	Flammable.	(derived from flash point)
Lower explosion limit:	For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15 °C below the flash point.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	333 °C	(DIN 51794)
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
Self ignition:	Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
Self heating ability:	It is not a substance capable of spontaneous heating.	
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.	
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.	

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Vapour pressure:	3.5997 hPa (20 °C) dynamic	(OECD Guideline 104)
Density:	0.9677 g/cm <sup>3</sup> (20 °C, 1,013 hPa) Literature data. 0.9286 g/cm <sup>3</sup> (55 °C)	(calculated)
Relative density:	0.967 (20 °C, 1,013 hPa)	(DIN 51757)
Relative vapour density (air):	4.55 (20 °C) Heavier than air.	(calculated)
Solubility in water:	198 g/l (20 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	1.2 (20 °C; pH value: 6.8)	(OECD Guideline 117)
Adsorption/water - soil:	KOC: 3.998; log KOC: 0.6 The data refer to the uncharged form of the substance.	(calculated)
Surface tension:	Based on chemical structure, surface activity is not to be expected.	
Viscosity, kinematic:	1.23 mm <sup>2</sup> /s (20 °C)	(DIN 51562)
Molar mass:	132.16 g/mol	

## 10. Stability and Reactivity

Conditions to avoid:

No special precautions other than good housekeeping of chemicals.

Thermal decomposition:

No decomposition if stored and handled as  
prescribed/indicated.

Substances to avoid:

strong oxidizing agents

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:

Reacts with strong oxidizing agents.

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Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

Chemical stability:

The product is stable if stored and handled as prescribed/indicated.

Reactivity:

| When heated can give off ignitable vapours.

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## 11. Toxicological Information

### Routes of exposure

#### Acute oral toxicity

Experimental/calculated data:

LD50rat (oral): > 5,000 mg/kg (similar to OECD guideline 401)

#### Acute inhalation toxicity

LC50 rat (by inhalation): > 23.5 mg/l > 4345 ppm 6 h (similar to OECD guideline 403)

No mortality was observed. The vapour was tested.

#### Acute dermal toxicity

LD50 rat (dermal): > 2,000 mg/kg (similar to OECD guideline 402)

No mortality was observed.

LD50 rabbit (dermal): > 5,000 mg/kg (similar to OECD guideline 402)

No mortality was observed.

#### Assessment of acute toxicity

Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

#### Symptoms

Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

#### Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (similar to OECD guideline 404)

Serious eye damage/irritation rabbit: non-irritant (similar to OECD guideline 405)

#### Respiratory/Skin sensitization

Assessment of sensitization:

Skin sensitizing effects were not observed in animal studies.

Experimental/calculated data:

Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)



### **Germ cell mutagenicity**

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not genotoxic in mammalian cell culture.

### **Carcinogenicity**

Assessment of carcinogenicity:

In long-term studies in rats and mice in which the substance was given by inhalation, a carcinogenic effect was not observed. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

### **Developmental toxicity**

Assessment of teratogenicity:

No indications of a developmental toxic / teratogenic effect were seen in animal studies.

### **Specific target organ toxicity (single exposure)**

Possible narcotic effects (drowsiness or dizziness).

### **Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

Repeated dermal uptake of the substance did not cause substance-related effects. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The substance may cause damage to the olfactory epithelium after repeated inhalation. Repeated oral uptake of the substance did not cause substance-related effects.

### **Aspiration hazard**

No aspiration hazard expected.

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## **12. Ecological Information**

### **Ecotoxicity**

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Toxicity to fish:

LC50 (96 h) 134 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203, static)

The details of the toxic effect relate to the nominal concentration.

Aquatic invertebrates:

EC50 (48 h) > 500 mg/l, *Daphnia magna* (Daphnia test acute, semistatic)

The details of the toxic effect relate to the nominal concentration.

Aquatic plants:

EC50 (72 h) > 1,000 mg/l (growth rate), *Selenastrum capricornutum* (OECD Guideline 201, static)

The details of the toxic effect relate to the nominal concentration.

Microorganisms/Effect on activated sludge:

EC10 (30 min) > 1,000 mg/l, activated sludge, industrial (DIN EN ISO 8192-OECD 209-88/302/EEC, P. C, aerobic)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to fish:

No observed effect concentration (14 d) 47.5 mg/l, *Oryzias latipes* (OECD Guideline 204, Flow through.)

The details of the toxic effect relate to the nominal concentration.

Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d),  $\geq$  100 mg/l, *Daphnia magna* (OECD Guideline 202, part 2, semistatic)

Assessment of terrestrial toxicity:

No data available concerning terrestrial toxicity.

## Mobility

Assessment transport between environmental compartments:

The substance will slowly evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

## Persistence and degradability

Elimination information:

83 % BOD of the ThOD (28 d) (OECD 301F; ISO 9408; 92/69/EEC, C.4-D) (aerobic, activated sludge, domestic, non-adapted)

Assessment of stability in water:

In contact with water the substance will hydrolyse slowly.

Information on Stability in Water (Hydrolysis):

$t_{1/2} > 1$  a (25 °C, pH value 7), (OECD Guideline 111, pH 7)

## Bioaccumulation potential

Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

Bioaccumulation potential:

No data available.

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### Other adverse effects

Adsorbable organically-bound halogen (AOX):  
This product contains no organically-bound halogen.

## 13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:  
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

## 14. Transport Information

### Domestic transport:

UN number or ID number: UN 1993  
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE)  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: no  
  
Special precautions for user: None known

### Sea transport

#### IMDG

UN number or ID number: UN 1993  
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE)  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: no  
Marine pollutant: NO  
Special precautions for user: EmS: F-E; S-E

### Air transport

#### IATA/ICAO

UN number or ID number: UN 1993  
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (2-METHOXY-1-METHYLETHYL ACETATE)  
Transport hazard class(es): 3  
Packing group: III  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user: None known

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## 15. Regulatory Information

### Other regulations

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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## 16. Other Information

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Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.