

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 19.07.2023

Version number 1

Revision: 19.07.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** *Methyl Propylene Glycol / PM*
- **Chemical Identification:** *1-Methoxy-2-propanol*
- **Article number:** 399
- **CAS Number:**
107-98-2
- **EC number:**
203-539-1
- **Index number:**
603-064-00-3
- **Registration number** 01-2119457435-35
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Chemical.
Solvent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Möller Chemie GmbH & Co. KG
Bürgerkamp 1
D-48565 Steinfurt
Tel.: 02551/9340-0
Fax: 02551/9340-60
- **Further information obtainable from:** *Product safety department*
- **1.4 Emergency telephone number:**
Poison Control Center Mainz - 24 hour emergency service - Tel.: +49 (0) 6131/19240

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** *Warning*
- **Hazard statements**
H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

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· **Precautionary statements**

- P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
- P241 *Use explosion-proof [electrical/ventilating/lighting] equipment.*
- P261 *Avoid breathing dust/fume/gas/mist/vapours/spray.*
- P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
- P405 *Store locked up.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **2.3 Other hazards**

The product does not contain any substance above the legal limits included on the list for endocrine disrupting properties established under Article 59(1) of Regulation (EC) No 1907/2006 or under Commission Delegated Regulation (EU) 2017/2100 or of Commission Regulation (EU) 2018/605 has endocrine disrupting properties.

· **Results of PBT and vPvB assessment**

· **PBT:**

The product does not contain any substances above legal limits that meet the criteria for PBT (persistent, bioaccumulative and toxic).

· **vPvB:**

The product does not contain any substances above legal limits that meet the criteria for vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition/information on ingredients

· **3.1 Substances**

· **CAS No. Description**

107-98-2 1-methoxy-2-propanol

· **Identification number(s)**

· **EC number:** 203-539-1

· **Index number:** 603-064-00-3

· **Additional information:**

Hazard determining component:

2-Methoxy-1-propanol Flam. Fl.: Cat. 3, Skin Corr.: Cat. 2, Eye Dam.: Cat. 1 <0.30 %

CAS No. 1589-47-5

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:** Supply fresh air, consult doctor in case of complaints.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **5.2 Special hazards arising from the substance or mixture**
The product is flammable. Cool endangered containers with water spray.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Good ventilation of storage and workplace. Prevent entry of air / oxygen (peroxide formation).
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store dry.
- **Information about storage in one common storage facility:** Not mandatory.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:**
3
flammable
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

107-98-2 1-methoxy-2-propanol

| | |
|-------|---|
| IOELV | Short-term value: 568 mg/m ³ , 150 ppm |
| | Long-term value: 375 mg/m ³ , 100 ppm |
| | Skin |

- **DNELs**
- Workers:
- Short-term exposure - systemic and local effects, inhalation: 553.5 mg/m³
- Long-term exposure - systemic effects, dermal: 183 mg/kg
- Long-term exposure - systemic effects, inhalation: 369 mg/m³
- Consumer:
- Long-term exposure - systemic effects, dermal: 78 mg/kg
- Long-term exposure - systemic effects, inhalation: 43.9 mg/m³

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Long-term exposure - systemic effects, oral: 33 mg / kg

- **PNECs**

- Fresh water: 10 mg/l

- Sea water: 1 mg/l

- sporadic release: 100 mg/l

- Sewage treatment plant: 100 mg/l

- Sediment (fresh water): 41.6 mg/kg

- Soil: 2.47 mg/kg

- Sediment (sea water): 4.17 mg/kg

- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.

- Wash hands before breaks and at the end of work.

- Avoid contact with the eyes and skin.

- Immediately remove all soiled and contaminated clothing

- **Respiratory protection:** Suitable respiratory protective device recommended.

- **Hand protection**



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

- Butyl rubber, BR

- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**



Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Colourless

- **Odour:**

Ether-like

- **Melting point/freezing point:**

-95 °C (1013 hPa)

- **Boiling point or initial boiling point and boiling range**

119-122 °C (1013 hPa)

- **Lower and upper explosion limit**

- **Lower:**

1.7 Vol %

- **Upper:**

11.5 Vol %

- **Flash point:**

31.5 °C (DIN 51755)

- **Ignition temperature:**

270 °C (DIN 51794)

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| | |
|--|-----------------------------------|
| · <i>pH (200 g/l) at 20 °C</i> | 4-7 |
| · <i>Viscosity:</i> | |
| · <i>Dynamic at 20 °C:</i> | 1.81 mPas |
| · <i>Solubility</i> | |
| · <i>water:</i> | Fully miscible. |
| · <i>Vapour pressure at 25.1 °C:</i> | 17.1 hPa |
| · <i>Density and/or relative density</i> | |
| · <i>Density at 20 °C:</i> | 0.92 g/cm ³ (1013 hPa) |

| | |
|--|---|
| · 9.2 Other information | |
| · <i>Appearance:</i> | |
| · <i>Form:</i> | Fluid |
| · Important information on protection of health and environment, and on safety. | |
| · <i>Explosive properties:</i> | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |

| | |
|--|------|
| · Information with regard to physical hazard classes | |
| · <i>Explosives</i> | Void |
| · <i>Flammable gases</i> | Void |
| · <i>Aerosols</i> | Void |
| · <i>Oxidising gases</i> | Void |
| · <i>Gases under pressure</i> | Void |
| · <i>Flammable liquids</i> | |
| · <i>Flammable solids</i> | Void |
| · <i>Self-reactive substances and mixtures</i> | Void |
| · <i>Pyrophoric liquids</i> | Void |
| · <i>Pyrophoric solids</i> | Void |
| · <i>Self-heating substances and mixtures</i> | Void |
| · <i>Substances and mixtures, which emit flammable gases in contact with water</i> | Void |
| · <i>Oxidising liquids</i> | Void |
| · <i>Oxidising solids</i> | Void |
| · <i>Organic peroxides</i> | Void |
| · <i>Corrosive to metals</i> | Void |
| · <i>Desensitised explosives</i> | Void |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
The product is stable if the regulations / instructions for storage and handling are observed.
- **Thermal decomposition / conditions to be avoided:** Avoid extreme heat. Avoid sources of ignition.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.
- **10.4 Conditions to avoid** Avoid extreme heat. Avoid sources of ignition.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** No decomposition if used as directed.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

| | | |
|------------|----------|-----------------------|
| Dermal | LD50 | 13.000 mg/kg (rabbit) |
| Inhalative | LC50/ 4h | 6 mg/l (rat) |

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- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**
Fish toxicity:
LC50 (96 h) > 6.800 mg / l, *Leuciscus idus* (DIN 38412 part 15, static)
Nominal concentration.
Aquatic invertebrates:
LC50 (48 h) 23.300 mg / l, *Daphnia magna* (*Daphnia test acute*, static)
Nominal concentration.
Aquatic plants:
EC50 (7 d) > 1.000 mg / l (growth rate), *Pseudokirchneriella subcapitata*
(Algae cell reproduction inhibition test)
Nominal concentration.
Microorganisms / effect on activated sludge:
EC50 (3 h) > 1.000 mg / l, activated sludge, municipal (OECD guideline 209)
Nominal concentration. Bibliography.
Chronic toxicity fish:
No data available.
Chronic toxicity of aquatic invertebrates:
No data available.
- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
- **vPvB:** This substance is not considered to be very persistent nor very bioaccumulative (vPvB).
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal according to local regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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· *Recommended cleansing agents: Water, if necessary together with cleansing agents.*

SECTION 14: Transport information

· 14.1 UN number or ID number

· ADR, IMDG, IATA

UN3092

· 14.2 UN proper shipping name

· ADR

3092 1-METHOXY-2-PROPANOL

· IMDG, IATA

1-METHOXY-2-PROPANOL

· 14.3 Transport hazard class(es)

· ADR



· Class

3 (F1) Flammable liquids.

· Label

3

· IMDG, IATA



· Class

3 Flammable liquids.

· Label

3

· 14.4 Packing group

· ADR, IMDG, IATA

III

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Hazard identification number (Kemler code):

30

· EMS Number:

F-E,S-D

· Stowage Category

A

· 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· Transport category

3

· Tunnel restriction code

D/E

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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· UN "Model Regulation":

UN 3092 1-METHOXY-2-PROPANOL, 3, III

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 40
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
Substance is not listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
Substance is not listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS** Substance is not listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department
- **Contact:** Mrs. Steyer
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

EU