

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

1-Methoxy-2-propanol > 99.5 % pure

REACH Registration Number: 01-2119457435-35-XXXX
CAS No: 107-98-2
Index No: 603-064-00-3
EC No: 203-539-1

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: AnalytiChem GmbH
Street: Stempelstraße 6
Place: D-47167 Duisburg
Telephone: 0203/5194-0
E-mail: info@analytichem.de
Contact person: Abteilung Produktsicherheit
E-mail: produktsicherheit@analytichem.de
Internet: www.analytichem.de
Responsible Department: Abteilung Produktsicherheit

Telefax: 0203/5194-290
Telephone: 0203/5194-107/117

1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Further Information

No data available

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 3; H226
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 2 of 11

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: CH₃OCH₂CH(OH)CH₃
Molecular weight: 90,12 g/mol

Hazardous components

| CAS No | Chemical name | | | Quantity |
|----------|---|--------------|-----------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 107-98-2 | 1-methoxy-2-propanol | | | 100 % |
| | 203-539-1 | 603-064-00-3 | 01-2119457435-35-XXXX | |
| | Flam. Liq. 3, STOT SE 3; H226 H336 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|--|----------------------|----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 107-98-2 | 203-539-1 | 1-methoxy-2-propanol | 100 % |
| | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 4277 mg/kg | | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.
Call a physician immediately.

After contact with skin

Wash immediately with: Water
Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.
Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritant
Narcotic effects

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 3 of 11

Gastrointestinal complaints
Vomiting
May cause drowsiness or dizziness.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam
Carbon dioxide (CO₂)
Extinguishing powder
Water

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids
Hazardous combustion products
In case of fire may be liberated:
Carbon dioxide (CO₂) Carbon monoxide
In case of warming:
Vapours are heavier than air, spread along floors and form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
In case of fire and/or explosion do not breathe fumes.
Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Move undamaged containers from immediate hazard area if it can be done safely.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.
This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).
Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Emergency procedures
Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 4 of 11

For containment

- Cover drains.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Collect in closed and suitable containers for disposal.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

- Clean contaminated articles and floor according to the environmental legislation.

Other information

- Provide adequate ventilation.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

- Read label before use. Handle and open container with care.
- When using do not eat, drink, smoke, sniff. Keep container tightly closed.
- Use personal protection equipment. Use extractor hood (laboratory).
- Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation.

Advice on protection against fire and explosion

- In case of warming: Vapours are heavier than air, spread along floors and form explosive mixtures with air.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Take precautionary measures against static discharges.

Advice on general occupational hygiene

- Keep away from food, drink and animal feedingstuffs.

Further information on handling

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Store in a well-ventilated place.
- Keep container tightly closed.
- Protect against: Light, Air

Further information on storage conditions

- Keep cool. Protect from sunlight.
- storage temperature +2°C - +25°C

7.3. Specific end use(s)

- Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 5 of 11

Occupational exposure limits

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|----------|-----------------------------------|-----|-------------------|---------------------|---------------|--------|
| 107-98-2 | Propylene glycol monomethyl ether | 100 | 375 | | TWA (8 h) | |
| | | 150 | 568 | | STEL (15 min) | |

DNEL/DMEL values

| CAS No | Substance | DNEL type | Exposure route | Effect | Value |
|----------|----------------------|--------------------------|----------------|----------|-------------------------|
| 107-98-2 | 1-methoxy-2-propanol | | | | |
| | | Worker DNEL, long-term | inhalation | systemic | 369 mg/m ³ |
| | | Worker DNEL, acute | inhalation | systemic | 553,5 mg/m ³ |
| | | Worker DNEL, acute | inhalation | local | 553,5 mg/m ³ |
| | | Worker DNEL, long-term | dermal | systemic | 183 mg/kg bw/day |
| | | Consumer DNEL, long-term | inhalation | systemic | 43,9 mg/m ³ |
| | | Consumer DNEL, long-term | dermal | systemic | 78 mg/kg bw/day |
| | | Consumer DNEL, long-term | oral | systemic | 33 mg/kg bw/day |

PNEC values

| CAS No | Substance | Environmental compartment | Value |
|----------|----------------------|--|------------|
| 107-98-2 | 1-methoxy-2-propanol | | |
| | | Freshwater | 10 mg/l |
| | | Freshwater (intermittent releases) | 100 mg/l |
| | | Marine water | 1 mg/l |
| | | Freshwater sediment | 52,3 mg/kg |
| | | Marine sediment | 5,2 mg/kg |
| | | Micro-organisms in sewage treatment plants (STP) | 100 mg/l |
| | | Soil | 4,59 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 6 of 11

By long-term hand contact

Trade name/designation: KCL 897 Butoject®

Recommended material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 730 Camatril® Velours

Recommended material: NBR (Nitrile rubber) 0,4 mm

Wearing time with occasional contact (splashes): > 120 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>, <) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Take off immediately all contaminated clothing and wash it before reuse.

Wear fire resistant or flame retardant clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

Filtering device with filter or ventilator filtering device of type: A

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|-------------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | like: Ether |
| Odour threshold: | No data available |
| Melting point/freezing point: | -97 °C |
| Boiling point or initial boiling point and boiling range: | 120 °C |
| Flammability: | No data available |
| Lower explosion limits: | 1,7 vol. % |
| Upper explosion limits: | 11,5 vol. % |
| Flash point: | 31 °C |
| Auto-ignition temperature: | 287 °C |
| Decomposition temperature: | No data available |
| pH-Value (at 20 °C): | 4 - 7 (200 g/l) |
| Viscosity / kinematic: | No data available |
| Water solubility: | No data available |
| Solubility in other solvents | No data available |
| Dissolution rate: | No data available |
| Partition coefficient n-octanol/water: | log Pow: -0,437 |
| Dispersion stability: | No data available |
| Vapour pressure: | No data available |
| Vapour pressure: | No data available |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 7 of 11

| | |
|---------------------------|------------------------|
| Density: | 0,92 g/cm ³ |
| Relative density: | No data available |
| Bulk density: | No data available |
| Relative vapour density: | No data available |
| Particle characteristics: | No data available |

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustaining combustion:

Sustaining combustion

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

100%

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

1,8 mPa·s

(at 20 °C)

Flow time:

No data available

Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

In case of warming:

Vapours may form explosive mixtures with air.

In case of air intake: Formation of: Peroxides

10.2. Chemical stability

Protect against:

Air

Light

10.3. Possibility of hazardous reactions

Oxidising agent, strong

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

plastics

10.6. Hazardous decomposition products

Peroxides

Further information

No data available

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 8 of 11

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | | |
|----------|----------------------|---------------|---------|--------|--------------------------------------|
| | Exposure route | Dose | Species | Source | Method |
| 107-98-2 | 1-methoxy-2-propanol | | | | |
| | oral | LD50 mg/kg | 4277 | Rat | Study report (1985) EU Method B.1 |
| | dermal | LD50 mg/kg | > 2000 | Rat | Study report (1985) EU Method B.3 |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness. (1-methoxy-2-propanol)

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.

Information on likely routes of exposure

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information

Liver and kidney damage

Further information

Irritant

Narcotic effects

Gastrointestinal complaints

Vomiting

May cause drowsiness or dizziness.

SECTION 12: Ecological information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 9 of 11

12.1. Toxicity

| CAS No | Chemical name | | | | | |
|----------|--------------------------|-------------------------------|-----------|------------------------------------|------------------------|---|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 107-98-2 | 1-methoxy-2-propanol | | | | | |
| | Acute fish toxicity | LC50 > 4600 - < 10000 mg/l | 96 h | Leuciscus idus | Study report (1989) | other: DIN 38 412, part L15 |
| | Acute algae toxicity | ErC50 > 1000 mg/l | 96 h | Pseudokirchneriella subcapitata | Study report (1986) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 21100 - 25900 mg/l | 48 h | Daphnia magna | Study report (1981) | other: Environmental Sciences Research T |

12.2. Persistence and degradability

~90 %; 29 d

OECD 301E

Readily biodegradable (according to OECD criteria).

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|----------------------|---------|
| 107-98-2 | 1-methoxy-2-propanol | < 1 |

12.4. Mobility in soil

Mobility in soil

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not empty into drains.

Do not mix with other wastes.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3092

14.2. UN proper shipping name:

1-METHOXY-2-PROPANOL

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 10 of 11

14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1
 Transport category: 3
 Hazard No: 30
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3092
14.2. UN proper shipping name: 1-METHOXY-2-PROPANOL
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Classification code: F1
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. UN number or ID number: UN 3092
14.2. UN proper shipping name: 1-METHOXY-2-PROPANOL
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Special Provisions: -
 Limited quantity: 5 L
 Excepted quantity: E1
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3092
14.2. UN proper shipping name: 1-METHOXY-2-PROPANOL
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3
 Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Safety Data Sheet

according to Regulation (EC) No 1907/2006

1-Methoxy-2-propanol > 99.5 % pure

Revision date: 04.09.2023

Product code: 19742

Page 11 of 11

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

Flam. Liq: Flammable liquid

STOT SE: Specific target organ toxicity - single exposure

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.