

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



70920 Methoxypropanol PM

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Revised edition: 08.04.2021

Version: 5

Printed: 02.06.2021

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Methoxypropanol PM

Article No.: 70920

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Industrial application
Solvent

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Flammable liquids, hazard category 3
Specific Target Organ Toxicity (single exposure), hazard category 3

H226 Flammable liquid and vapour.

Cat.: 3

H336 May cause drowsiness or dizziness.

Cat.: 3

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS02-1

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GHS07

Signal word:

Warning

Hazard designation:

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

Safety designation:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P312 Call a poison center or physician if you feel unwell.
P370+P378 In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P403+P235 Store in a well ventilated place. Keep cool.
P501 Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

1-Methoxy-2-propanol

2.3. Other Hazards

The product is combustible and can be ignited by potential sources of ignition.

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

1-Methoxypropane-2-ol (H226-336); REACH Reg. No. 01-2119457435-35-xxxx	> 99.5 %	CAS-Nr: 107-98-2 EINECS-Nr: 203-539-1 EC-Nr: 603-064-00-3
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2-Methoxy-1-propanol (H226-315-318-335-360D)	< 1 %	CAS-Nr: 1589-47-5 EINECS-Nr: 216-455-5 EC-Nr: 603-106-00-0
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Remove contaminated clothes immediately.

After inhalation:

Supply fresh air.

In case breathing is not regular or if it has stopped, seek medical next page: 3

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advice immediately and initiate first aid measures.

After skin contact:

Wash off immediately with soap and plenty of water and rinse thoroughly.

Remove contaminated clothing.

After eye contact:

Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.

After ingestion:

Rinse mouth with water and drink plenty of water.

Do not induce vomiting. Consult physician immediately.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

Narcotic effects, breathing difficulties, headache, dizziness.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Subsequent observation for pneumonia and pulmonary edema. Monitor the circulation.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, sand, water spray jet.

Unsuitable extinguishing media:

Never apply a strong water jet.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon oxides.

Fumes can form an explosive mixture with air.

The vapor is heavier than air, spreads along the ground and distant ignition is possible.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

Cool closed containers exposed to fire with water mist.

Risk of bursting of closed containers due to strong heating.

Contaminated extinguishing water and debris should be disposed of according to local regulations.

6. Accidental Release Measures

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6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Wear appropriate protective equipment. Keep spectators away.
Close leaks without taking any risk.
Provide adequate ventilation. Keep away from sources of ignition.
Avoid contact with skin and eyes. Do not ingest or inhale.*

6. 2. Environmental Precautions

Environmental precautions:

*Contact local authorities if product pollutes soil or vegetation.
Do not discharge into drains, surface or ground water in concentrated form.*

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.

6. 4. Reference to other Sections

*Protective clothing, see Section 8.
See Section 13 for information on disposal.*

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

*Keep containers tightly closed.
Provide adequate ventilation.
Provide adequate ventilation, also in floor area (vapors are heavier than air).*

Hygienic measures:

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.
Take off contaminated clothing immediately.*

7. 2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store product in a cool and well ventilated area.
Store in tightly sealed containers in a dry and cool room.*

Requirements for storage areas and containers:

*Store the product in the original container.
Store in a room with a solvent-proof floor.
Suitable packaging: only approved packagings may be used.
Unsuitable container material: aluminum, light metal.*

Information on fire and explosion protection:

*Keep away from sources of ignition - do not smoke.
Do not store near open fires, sparks or strong oxidizing agents.
Vapors may form an explosive mixture with air. Vapor is heavier*

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than air and spreads along the ground.

Take measures to prevent electrostatic discharge.

Do not store together with combustible, self-ignitable and flammable products, nor with highly inflammable solids.

Storage class:

3; Flammable liquids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

1-Methoxy-2-propanol (CAS 107-98-2): TLV (D): 370 mg/m³, 100 ml/m³; 2(l); DFG; Y

Parameters to be controlled:

1-Methoxy-2-propanol (CAS 107-98-2), IOELV (EU): Short term value: 568 mg/m³, 150 ppm; Longterm value: 375 mg/m³; 100 ppm; skin.

1-Methoxy-2-propanol (CAS 107-98-2): IOELV (CH): Short term value: 720 mg/m³, 200 ppm; Longterm value: 360 mg/m³; 100 ppm

1-Methoxy-2-propanol (CAS 107-98-2): GKV (AT): Longterm value: 187 mg/m³; 50 ppm

Derived No-Effect Level (DNEL):

1-Methoxypropane-2-ol (CAS 107-98-2):

553.5 mg/m³ (worker, inhalation, short-term exposure - local effect)

396 mg/m³ (worker, inhalation, long-term exposure - systemic effects)

183 mg/kg (worker, skin contact, long-term exposure - systemic effects)

Predicted No-Effect Concentration (PNEC):

1-Methoxypropane-2-ol (CAS 107-98-2):

Fresh water: 6.83 mg/l

Seawater: 0.683 mg/l

Fresh water sediment: 52.3 mg/kg

Seawater sediment: 5.2 mg/kg

Soil: 4.59 mg/kg

Sewage treatment system (STP): 100 mg/l

Water: 100 mg/l

Additional Information:

Biological limit value:

1-Methoxy-2-propanol: 15 mg/l (end of exposure or shift; urine) (TRGS 203, DE)

1-Methoxy-2-propanol: 20 mg/l (SUVA, CH)

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8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

General protective measures:

Avoid contact with skin and avoid inhalation of vapour. Do not eat, drink or smoke while working.

Remove contaminated clothing immediately.

Do not inhale gas/fumes/vapor/aerosol.

Respiratory protection:

Required in case of insufficient ventilation.

Hand protection:

Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective gloves should be changed regularly, especially after intensive contact with the product.

Protective glove material:

Butyl rubber (480 min, 0.7 mm)

For short-term exposure (splash protection): butyl rubber gloves.

Eye protection:

Tightly fitting safety goggles (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Avoid contamination of sewage system, open water ways and ground water.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: colorless

Odor: like ether

Odor threshold:
no information available

pH-Value:
not determined

Melting temperature: -96°C (1013 hPa)

Boiling temperature: 120°C (1013 hPa)

Flash point: 31.1°C (1013 hPa)

Evaporation rate:
No information available.

Flammability (solid, gas):
Flammable liquid according to GHS criteria

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<i>Upper explosion limit:</i>	13.7 Vol.-%
<i>Lower explosion limit:</i>	1.5 Vol.-%
<i>Vapor pressure:</i>	11.7 mmHg (25°C)
<i>Vapor density:</i>	No information available.
<i>Density:</i>	0.92 g/cm ³ (25°C)
<i>Solubility in water:</i>	not determined
<i>Coefficient of variation (n-Octanol/Water):</i>	< 1 logKOW (pH-Wert 6.8, 20°C)
<i>Auto-ignition temperature:</i>	287°C (DIN 51794)
<i>Decomposition temperature:</i>	No data available.
<i>Viscosity, dynamic:</i>	
<i>Explosive properties:</i>	Product is not explosive; however, an explosive vapor/air mixture can be formed.
<i>Oxidizing properties:</i>	no information available
<i>Bulk density:</i>	not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Temperature class: T3 (maximum temperature: 200°C)

Surface tension: 70.7 mN/m (20°C)

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.
When heated: risk of ignition.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Formation of explosive vapor-air-mixtures possible.

10.4. Conditions to Avoid

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Conditions to avoid:

Avoid heat, hot surfaces, sparks, naked flames and other ignition sources. Do not smoke.

Thermal decomposition:

10.5. Incompatible Materials

Oxidizing agents.

10.6. Hazardous Decomposition Products

In case of fire: formation of carbon oxides.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Not classified as acute toxic. May be harmful when swallowed.

Acute Toxicity

LD50, oral: 4277 mg/kg (rat)

LD50, dermal: > 2000 mg/kg (rat)

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Non irritating

Irritant effect on eyes:

Non-irritating to eyes

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effect (guinea pig).

Mutagenicity:

Not mutagenic.

Reproductive toxicity:

No reproductive toxicity expected.

Carcinogenicity:

Not cancerogenic.

Teratogenicity:

No teratogenic effects expected.

Specific target organ toxicity (STOT):

Single exposure: may cause drowsiness or dizziness.

Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

Additional toxicological information:

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Aspiration hazard: not applicable

12. Ecological Information

12.1. Aquatic Toxicity

1-Methoxypropane-2-ol (CAS 107-98-2)

Fish toxicity:

LC50: < 10000 mg/l (96h, fish)

Daphnia toxicity:

No information available.

Bacteria toxicity:

No data available.

Algae toxicity:

ErC50: > 1000 mg/l (7d, Pseudokirchneriella subcapitata)

12.2. Persistency and Degradability

Readily biodegradable.

DOC Reduction: 96 % (28d)

12.3. Bioaccumulation

log KOW: < 1

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).

12.6. Other Adverse Effects

Water hazard class:

1 (German Regulation) (Assessment by list): slightly hazardous.

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

*Dispose of according to official national and local regulations.
If possible reuse product.*

European Waste Code (EWC):

The waste code must be determined together with the regional disposal service.

Uncleaned packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not puncture, cut or weld uncleaned drums. Risk of explosion.

Dispose of according to official local regulations. next page: 10

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Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA 3092

14.2. UN Proper Shipping Name

ADR/RID: 1-METHOXY-2-PROPANOL

IMDG/IATA: 1-METHOXY-2-PROPANOL

14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-D

IATA Class: 3

Hazard no.: 3

14.4. Packaging Group

ADR/RID: III

IMDG: III

IATA: III

14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: no

Labelling according 5.2.1.6.3 IMDG: no

Classification as environmentally hazardous according 2.9.3

IMDG: no

Labelled with "P" according 2.10 IMDG: no

14.6. Special Precautions for User

not applicable

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

IMDG: not applicable

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (German Regulation)

Local regulations on chemical accidents:

Employment restrictions:

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Restriction and prohibition of application:

Technical instructions on air quality:

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15.3. Further Information

Listed in the following inventories:

1-Methoxypropane-2-ol: EINECS (203-539-1), TSCA, AICS (AUS), DSL (CA), ENCS (JP)(2)-404, (7)-97, ISHL/JEX (JP)(2)-404, (7)-97, KECI (KR) KE-23379, IECSC (CN), PICCS (PH), NZIoC (NZ) (HSR001187)

EU. Directive 2010/75/EU, VOC content 100 %

Fire hazard class (German "Flammable Liquids Ordinance" (VbF)): AI (flammable liquids of group A, hazardous class II)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.