

Safety data sheet

Page: 1/12

BASF Safety data sheet
Date / Revised: 01.10.2023
Product: **SOLVENON® PM**

Version: 2.1

(30034847/SDS_GEN_TH/EN)

Date of print: 12.10.2025

1. Substance/preparation and manufacturer/supplier identification

Product name:
SOLVENON® PM

Use: 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

Acute toxicity: Cat.5 (oral)

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.
H303 May be harmful if swallowed.
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 dust/fume/gas/mist/vapours/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 alcohol-resistant foam, carbon dioxide, dry powder or water spray for extinction.

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.

3. Composition/information on ingredients

Chemical nature

Substance nature: Substance

1-methoxypropan-2-ol (Content (W/W): $\geq 99.5\%$)
CAS Number: 107-98-2

BASF Safety data sheet
Date / Revised: 01.10.2023
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(30034847/SDS_GEN_TH/EN)

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Hazardous ingredients

1-methoxypropan-2-ol

Content (W/W): $\geq 99.5\%$ - $\leq 100\%$

CAS Number: 107-98-2

Flam. Liq.: Cat. 3

Acute Tox.: Cat. 5 (oral)

STOT SE: Cat. 3 (drowsiness and dizziness)

2-methoxypropanol

Content (W/W): $\geq 0\%$ - $< 0.3\%$

CAS Number: 1589-47-5

Flam. Liq.: Cat. 3

Skin Corr./Irrit.: Cat. 2

Eye Dam./Irrit.: Cat. 1

Repr.: Cat. 1B (unborn child)

STOT SE: Cat. 3 (irr. to respiratory syst.)

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.

5. Fire-Fighting Measures

Suitable extinguishing media:

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

BASF Safety data sheet
Date / Revised: 01.10.2023
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Version: 2.1

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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.

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. Collect contaminated washing water for appropriate disposal.

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.

7. Handling and Storage

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

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Ground all transfer equipment properly to prevent electrostatic discharge.

BASF Safety data sheet
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Storage

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

8. Exposure controls and personal protection

Components with occupational exposure limits

1-methoxypropan-2-ol, 107-98-2;
TWA value 50 ppm (ACGIHTLV)
STEL value 100 ppm (ACGIHTLV)

Personal protective equipment

Respiratory protection:

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

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).

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

9. Physical and Chemical Properties

Form:	liquid
Colour:	colourless
Odour:	mild, alcohol-like
Odour threshold:	not determined

pH value:

(20 °C)
soluble, neutral

BASF Safety data sheet
 Date / Revised: 01.10.2023
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Melting point:	-95 °C (1,013 hPa) Literature data.	(other)
Boiling point:	119.8 °C (1,013 hPa)	(other)
Flash point:	31.5 °C	(DIN 51755, closed cup)
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Flammability (solid/gas):	Flammable liquid and vapour.	(derived from flash - and boiling point)
Lower explosion limit:	1.7 %(V) (27 °C) The lower explosion point of the substance/mixture has been determined. The explosion point describes the temperature of a flammable liquid at which the concentration of the saturated vapour mixed with air equals the lower explosion limit.	(air)
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Ignition temperature:	287 °C	(Directive 92/69/EEC, A.15)
Thermal decomposition:	No data available.	
Self ignition:	Temperature: 20 °C Based on its structural properties the product is not classified as self-igniting.	Test type: Spontaneous self-ignition at room-temperature.
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.	
Vapour pressure:	17.1 hPa (25.1 °C) dynamic	(measured)
Density:	0.92 g/cm ³ (20 °C, 1,013 hPa)	(DIN 51757)
Relative density:	0.92 (20 °C)	
Relative vapour density (air):	3.1 (20 °C) Heavier than air.	(calculated)

BASF Safety data sheet
Date / Revised: 01.10.2023
Product: **SOLVENON® PM**

Version: 2.1

(30034847/SDS_GEN_TH/EN)

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Solubility in water:	Literature data., miscible (20 °C)	
Solubility (qualitative) solvent(s):	organic solvents soluble	
Partitioning coefficient n-octanol/water (log Pow):	-0.43 (25 °C)	(measured)
Adsorption/water - soil:	Literature data. log KOC: -0.69 Adsorption to solid soil phase is not expected.	(calculated)
Surface tension:	70.7 mN/m (20 °C) Based on chemical structure, surface activity is not to be expected.	(OECD Guideline 115, OECD harmonized ring method)
Viscosity, dynamic:	1.81 mPa.s (20 °C) Literature data.	
Molar mass:	90.12 g/mol	

10. Stability and Reactivity

Conditions to avoid:
Avoid extreme heat. Avoid sources of ignition.

Thermal decomposition: No data available.

Substances to avoid:
strong oxidizing agents

Corrosion to metals: No corrosive effect on metal.

Hazardous reactions:
Reacts with strong oxidizing agents.

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.

11. Toxicological Information

Routes of exposure

Acute oral toxicity

Experimental/calculated data:

LD50rat (oral): 4,016 mg/kg (similar to OECD guideline 401)

Acute inhalation toxicity

LC0 rat (by inhalation): > 7000 ppm 6 h (similar to OECD guideline 403)

The vapour was tested.

Acute dermal toxicity

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

Assessment of acute toxicity

Of low toxicity after 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: Non-sensitizing. (other)

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 mutagenic in a test with mammals.

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.

Reproductive toxicity

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

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

Experiences in humans

Experimental/calculated data:

High concentrations have a narcotizing effect.

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:

No adverse effects were observed after repeated dermal exposure in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses. The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

Aspiration hazard

not applicable

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) > 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* (Algal growth inhibition test)

Nominal concentration.

Microorganisms/Effect on activated sludge:

EC50 (3 h) > 1,000 mg/l, activated sludge, domestic (OECD Guideline 209)

Nominal concentration. Literature data.

Chronic toxicity to fish:

No data available.

Chronic toxicity to aquatic invertebrates:
No data available.

Mobility

Assessment transport between environmental compartments:
The substance will not evaporate into the atmosphere from the water surface.
Adsorption to solid soil phase is not expected.

Persistence and degradability

Assessment biodegradation and elimination (H₂O):
Readily biodegradable (according to OECD criteria).

Elimination information:
90 - 100 % DOC reduction (28 d) (OECD 301E/92/69/EWG, C.4-B) (aerobic, municipal sewage treatment plant effluent)

Assessment of stability in water:
According to structural properties, hydrolysis is not expected/probable.
The product has not been tested. The statement has been derived from the structure of the product.

Information on Stability in Water (Hydrolysis):
According to structural properties, hydrolysis is not expected/probable.

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.

Other adverse effects

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

Additional information

Other ecotoxicological advice:
Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

13. Disposal Considerations

Dispose of in accordance with national, state and local regulations.

Contaminated packaging:
Disposal must be made according to official regulations.

14. Transport Information

Domestic transport:

UN number or ID number: UN 3092
UN proper shipping name: 1-METHOXY-2-PROPANOL
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 3092
UN proper shipping name: 1-METHOXY-2-PROPANOL
Transport hazard class(es): 3
Packing group: III
Environmental hazards: no

Marine pollutant: NO
Special precautions for user: EmS: F-E; S-D

Air transport

IATA/ICAO

UN number or ID number: UN 3092
UN proper shipping name: 1-METHOXY-2-PROPANOL
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

15. Regulatory Information

Other regulations

16. Other Information

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