



We create chemistry

Safety Data Sheet

sample: solution of polymer 3 in PGME PGMEA

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(701440/SDS_GEN_CA/EN)

1. Identification

Product identifier used on the label

sample: solution of polymer 3 in PGME PGMEA

Recommended use of the chemical and restriction on use

Recommended use*: R&D Sample

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF SE
67056 Ludwigshafen
GERMANY

Contact address:

BASF Canada Inc.
100 Milverton Drive
Mississauga, ON L5R 4H1
CANADA
Telephone: +1 289 360-1300

Emergency telephone number

CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

Other means of identification

Chemical family: Solution based on: polysiloxane

2. Hazards Identification

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Flam. Liq.
STOT SE

3
3 (Vapours may cause
drowsiness and
dizziness.)

Flammable liquids
Specific target organ toxicity — single exposure

Repr.

1B (unborn child)

Reproductive toxicity

Label elements

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Pictogram:



Signal Word:

Danger

Hazard Statement:

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H360 May damage the unborn child.

Precautionary Statements (Prevention):

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P201 Obtain special instructions before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P243 Take action to prevent static discharges.
P202 Do not handle until all safety precautions have been read and understood.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P240 Ground and bond container and receiving equipment.
P242 Use non-sparking tools.

Precautionary Statements (Response):

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
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/shower.
P370 + P378 In case of fire: Use foam or dry powder 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/container to hazardous or special waste collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition / Information on Ingredients

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
107-98-2	>= 25.0 - < 75.0%	1-methoxypropan-2-ol
1589-47-5	>= 0.2 - < 0.3%	2-methoxypropanol

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70657-70-4

>= 0.1 - < 0.2%

2-methoxypropyl acetate

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

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

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

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Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Breathing protection required.

Can release flammable vapours. Wind direction should be noted. Avoid all sources of ignition: heat, sparks, open flame. Use antistatic tools.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Precautions for safe handling

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Sources of ignition should be kept well clear. Take precautionary measures against static discharges. If delivered in plastic packing, highest permissible emptying temperature is 5 Kelvin below the flash point.

Conditions for safe storage, including any incompatibilities

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

Storage stability:

Storage temperature: -18 °C

8. Exposure Controls/Personal Protection

Components with occupational exposure limits

1-methoxypropan-2-ol	OSHA PEL	STEL value 150 ppm 540 mg/m ³ ; TWA value 100 ppm 360 mg/m ³ ;
	ACGIH TLV	STEL value 100 ppm ; TWA value 50 ppm ;

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

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Eye protection:

Safety glasses with side-shields. Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid
Odour:	product specific
Odour threshold:	No applicable information available.
Colour:	colourless to yellowish
pH value:	not determined
Freezing point:	not determined
<i>Information on: 1-methoxy-2-propylacetate</i>	
Boiling point:	145.8 °C (1,013.25 hPa) Extrapolated value
	(OECD Guideline 103)

Flash point:	approx. 31 °C Information applies to the solvent. Flammable liquid and vapour.
	(closed cup)
Flammability:	Flammable liquid and vapour.
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.
Autoignition:	not determined
Vapour pressure:	not determined
<i>Information on: 1-methoxy-2-propylacetate</i>	
Vapour pressure:	3.5997 hPa (20 °C) dynamic
	(OECD Guideline 104)

Density:	approx. 0.9 - 1.0 g/cm ³
Relative density:	approx. 0.9 - 1.0 (20 °C)
Vapour density:	not determined
Partitioning coefficient n-octanol/water (log Pow):	not applicable for mixtures
Thermal decomposition:	not determined
Viscosity, dynamic:	not determined
Solubility in water:	not determined
Evaporation rate:	not determined

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:
not fire-propagating

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Chemical stability

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

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Decomposition products:

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

Thermal decomposition:
not determined

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Oral

Type of value: ATE
Value: > 5,000 mg/kg (calculated)

Inhalation

Type of value: ATE
Value: > 20 mg/l (calculated)
Determined for vapor

Type of value: ATE
Value: > 5 mg/l (calculated)
Determined for mist

Dermal

Type of value: ATE
Value: > 5,000 mg/kg (calculated)

Assessment other acute effects

Assessment of STOT single:
Possible narcotic effects (drowsiness or dizziness).

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The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes.

Skin

Information on: 1-methoxypropan-2-ol

Species: rabbit

Result: non-irritant

Method: other

Information on: 1-methoxy-2-propylacetate

Species: rabbit

Result: non-irritant

Method: similar to OECD guideline 404

Eye

Information on: 1-methoxypropan-2-ol

Species: rabbit

Result: Slightly irritating.

Information on: 1-methoxy-2-propylacetate

Species: rabbit

Result: non-irritant

Method: similar to OECD guideline 405

Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Information on: 1-methoxypropan-2-ol

Species: guinea pig

Result: Non-sensitizing.

Method: other

Information on: 1-methoxy-2-propylacetate

Guinea pig maximization test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: No data available.

Genetic toxicity

Assessment of mutagenicity: No data available concerning mutagenic effects.

Carcinogenicity

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Assessment of carcinogenicity: No data available.

Reproductive toxicity

Assessment of reproduction toxicity: No data available.

Teratogenicity

Assessment of teratogenicity: No data available.

Other Information

The product has not been tested. The statement has been derived from the properties of the individual components.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

12. Ecological Information

Toxicity

Toxicity to fish

Information on: 1-methoxypropan-2-ol
LC50 (96 h) > 6,800 mg/l, *Leuciscus idus* (DIN 38412 Part 15, static)
Nominal concentration.

Information on: 1-methoxy-2-propylacetate
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

Information on: 1-methoxypropan-2-ol
LC50 (48 h) 23,300 mg/l, *Daphnia magna* (*Daphnia* test acute, static)
Nominal concentration.

Information on: 1-methoxy-2-propylacetate
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

Information on: 1-methoxypropan-2-ol
EC50 (7 d) > 1,000 mg/l (growth rate), *Pseudokirchneriella subcapitata* (Algal growth inhibition test)
Nominal concentration.

Information on: 1-methoxy-2-propylacetate
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.

Chronic toxicity to fish

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Information on: 1-methoxy-2-propylacetate

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

Information on: 1-methoxy-2-propylacetate

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

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested.

Assessment bioaccumulation potential

Information on: 1-methoxypropan-2-ol

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

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

Information on: 1-methoxy-2-propylacetate

No significant accumulation in organisms is expected as a result of the distribution coefficient of n-octanol/water (log Pow).

Mobility in soil

Assessment transport between environmental compartments

No data available.

No data available.

Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

13. Disposal considerations

Waste disposal of substance:

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

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

WARNING: Empty containers may still contain hazardous residue.

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14. Transport Information

Land transport

TDG

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 1-METHOXYPROPANOL-2, 2-METHOXY-1-METHYLETHYL ACETATE)

Sea transport

IMDG

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3
Marine pollutant: NO
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 1-METHOXYPROPANOL-2, 2-METHOXY-1-METHYLETHYL ACETATE)

Air transport

IATA/ICAO

Hazard class: 3
Packing group: III
ID number: UN 1993
Hazard label: 3
Proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains 1-METHOXYPROPANOL-2, 2-METHOXY-1-METHYLETHYL ACETATE)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released; restriction on quantity / not listed

NFPA Hazard codes:

Health: 1 Fire: 3 Reactivity: 0 Special:

16. Other Information

SDS Prepared by:

BASF NA Product Regulations
SDS Prepared on: 2017/10/06

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our

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commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET