

Safety Data Sheet

According to Regulation (EC) No 1907/2006

1-methoxypropan-2-ol

Version 1.0

Issue date: 19/06/2021

Revision date: 19/06/2021

SDS Record Number: CSSS-TCO-010-123837

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: 1-methoxypropan-2-ol
Additional identification: monopropylene glycol methyl ether(PM)
Identification of the product: CAS#107-98-2 EC#203-539-1
Index Number: 603-064-00-3
REACH registration No.: Not available.

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Herbicide Intermediate.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): -
Supplier(Manufacturer): **Dakings Chemical (Shandong) Co.,Ltd**
Address: Moscow Road, Qingdao Qianwan Bonded Port Area, Shandong Pilot Free Trade Zone, China
Contact person(E-mail): sales@dakingschem.com
Telephone: +86 17685872921
Fax: +86 0533-6292708

1.4 Emergency telephone Number:

+86 17685872921

Available outside office hours? YES NO

Section 2 Hazards Identification

2.1 Classification of the substance/mixture:

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Flam. Liq. 3	H226
STOT SE 3	H336
Repr. 1B	H360D

For full text of H- phrases: see section 2.2.

2.2 label elements:

Product name: 1-methoxypropan-2-ol

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Hazard Pictograms:**Signal Word(S):**

Danger

Hazard Statement:

H226: Flammable liquid and vapour

H336: May cause drowsiness or dizziness

H360D: May damage the unborn child

Precautionary statement:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P312: Call a POISON CENTER/ doctor if you feel unwell.

P370 + P378: In case of fire: Use sand, dry chemical, carbon dioxide. to extinguish.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

P403 + P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulation.

2.3 Other hazards:

Not applicable.

Section 3 Composition/information on ingredients**Substance/Mixture:**

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
1-methoxypropan-2-ol	N/A	107-98-2	203-539-1	> 99.0%
2-methoxypropanol	N/A	1589-47-5	216-455-5	< 0.5%

Section 4 First aid measures**4.1 Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove the source of contamination or move victim to fresh air. Keep respiratory tract smooth. If breathe hard, administer oxygen by a trained person.

4.1.2 In case of skin contact:

Immediately take off the all contaminated clothing, wash skin with soap and flush with large amounts of water. If irritation continues, get medical attention. Wash contaminated clothing before reuse.

4.1.3 In case of eyes contact:

Immediately flush eyes with plenty of water or normal saline for at least 15 minutes. Get medical attention.

4.1.4 In case of ingestion:

If large quantity swallowed, give lukewarm water if victim completely conscious/alert. Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

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

May cause drowsiness or dizziness. May damage the unborn child.

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

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Sand, dry chemical, carbon dioxide.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide and carbon monoxide may form when heated to decomposition.

5.3 Advice for firefighters:

Firefighters must wear fire resistant protective equipment. Wear approved respirator and protective gloves.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

6.1.2 For emergency responders : Wear an appropriate NIOSH/MSHA approved respirator if vapor is generated.

6.2 Environmental Precautions:

Do not allow material to be released to the environment without proper governmental permits.

6.3 Methods for Containment and Cleaning up:

Small Spills: Absorb with earth, sand or other non-combustible material, collect and seal in properly labeled containers for later disposal.

Large Spills: Clear spill area of all non-emergency personnel. Dike and contain spill. Prevent entry into sewers, waterways.

Remove with vacuum trucks or pump to specific container, collect and deliver to the authorized agent in the local area for disposal.

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 information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities:

Store only in tightly closed, properly vented containers away from heat, sparks, open flame, acids and strong oxidizing agents. Use non-sparking type tools and equipment, including explosion proof ventilation. Storage areas should be equipped with emergency spill handling equipment and suitable host material.

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

2-methoxypropanol(CAS#1589-47-5) : LIMITS ADOPTED: WEL: 5ppm, 19mg/m³ (Spain)

Substance	CAS No.	Occupational Exposure Limit Value (8-hour reference period)		Occupational Exposure Limit Value (15-minute reference period)		
		ppm	mg/ m ³	ppm	mg/ m ³	Notes
Propylene glycol monomethyl ether	107-98-2	50	184	100	368	IOELV

8.1.2 Additional exposure limits under the conditions of use:

Not available.

8.1.3 DNEL/DMEL and PNEC-Values:

Workers - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 369 mg/m³

Workers - Hazard via inhalation route-Systemic effects- Acute/short term exposure-DNEL (Derived No Effect Level): 553.5 mg/m³

Workers - Hazard via inhalation route- Local effects- Acute/short term exposure-DNEL (Derived No Effect Level): 553.5 mg/m³

Workers - Hazard via dermal route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 183 mg/kg bw/day

General Population - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 43.9 mg/m³

General Population - Hazard via dermal route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 78 mg/kg bw/day

General Population - Hazard via oral route-Systemic effects-Long term exposure-DNEL (Derived No Effect Level): 33 mg/kg bw/day

PNEC aqua (freshwater): 10 mg/L

PNEC aqua (marine water): 1 mg/L

PNEC STP: 100 mg/L

PNEC sediment (freshwater): 52.3 mg/kg sediment dw

PNEC sediment (marine water): 5.2 mg/kg sediment dw

PNEC soil: 4.59 mg/kg soil dw

8.2 Exposure controls:

8.2.1 Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:	Wear chemical goggles and face shield.
Hand protection:	Wear chemical resistant gloves such as: Neoprene.
Body protection:	Wear anti-static clothing, which sufficient to prevent all skin contact, such as coveralls and long sleeves. Wear anti-static clothing.
Respiratory protection:	If the exposure limit is exceeded, a full-face organic vapor respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.
Thermal hazards:	Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:	Avoid discharge into the environment. According to local regulations, Federal and official regulations.
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Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid
Colour:	Colorless
Odour:	Slight ethereal odor
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	-96 °C
Boiling point/range (°C):	120.17 °C
Flash point (°C):	31.1 °C
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	13.74 %/1.48 %
Vapour pressure:	11.7 mm Hg (25 °C)
Vapour density:	Not available
Density:	0.92 g/cm ³ (25 °C)
Bulk density (kg/m³):	Not available
Water solubility (g/l):	> 1000000 mg/L
n-Octanol/Water (log Po/w):	< 1
Auto-ignition temperature:	287 °C
Decomposition temperature:	Not available
Viscosity:	1.7mPa s (25°C)
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	C ₄ H ₁₀ O ₂
Molecular Weight:	90.12

9.2. Other information:

Fat solubility(solvent– oil to be specified)	Not available
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etc:

Surface tension:	70.7 mN/m (20 °C)
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions:	No dangerous reactions known.
10.4 Conditions to avoid:	Incompatible materials. Heat, flames, ignition sources.
10.5 Incompatible materials:	Strong oxidizers, strong acids, strong bases, aluminum, and copper.
10.6 Hazardous decomposition products:	Carbon dioxide and carbon monoxide may form when heated to decomposition.

Section 11 Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat):	4016 mg/kg bw
LD50(Dermal, Rat):	> 2000 mg/kg bw
LC50(Inhalation, Mouse):	>= 6 000 - <= 7 000 ppm 6h

Skin corrosion/Irritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	May damage the unborn child.
STOT- single exposure:	May cause drowsiness or dizziness.
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

Section 12 Ecological information

12.1 Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	6812 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 500 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 500 mg/L	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability:	Readily biodegradable.
12.3 Bioaccumulative potential:	Not available.
12.4 Mobility in soil:	Not available.
12.5 Results of PBT&vPvB assessment:	The substance is not PBT / vPvB.
12.6 Other adverse effects:	Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods: Due to the high risk of contamination recycling/recovery is not recommended. Waste disposal in accordance with regulations (most probably controlled incineration).

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3092	3092	3092
UN Proper shipping name	1-METHOXY-2-PROPANOL	1-METHOXY-2-PROPANOL	1-METHOXY-2-PROPANOL
Transport hazard Class	3	3	3
Packaging group	III	III	III
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	IBC03	IBC03	IBC03

Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried out? YES NO

Section 16 Other information

16.1 Indication of changes:

Version 1.0 Amended by (EU) 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.