

Safety Data Sheet
According to Regulation (EC) No. 1907/2006, Annex II,
Amended by REGULATION (EU) No 453/2010,

According to Regulation (EC) No. 1272/2008

2-methoxy-1-methylethyl acetate

SDS Record Number: CSSS-TCO-010-111312

Printing date: 29/03/2014

Version 1.1

Revision date: 29/03/2014

1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name: 2-methoxy-1-methylethyl acetate
Additional identification: Propylene Glycol Methyl Ether Acetate
Identification of the product: see section 3
Index Number: Not available
REACH registration No.: Not available

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

1.2.1 Identified uses:

Mainly used as solvent of dispersants in inks, paints, inks, textile dyes, textile.

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: Qingdao Qianwan Bonded Port Area, Shandong Pilot Free Trade Zone, China
Contact person(E-mail): sales@dakingschem.com
Telephone: +86-533-6292708
Fax: +86-533-6292708

1.4 Emergency telephone Number:

+86-532-83889090

Available outside office hours?

YES

NO

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

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

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

67/548/EEC	
Hazards characteristics	R-Phrases

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-	R10
Repr. Cat. 2	R61

For full text of R- phrases: see section 16.

2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Flammable liquid and vapour.

2.1.2.2 The most important adverse human health effects:

May damage fertility or the unborn child.

2.1.2.3 The most important adverse environmental effects:

Not applicable.

2.2 label elements

Hazard Pictograms:



Signal Word(S):

Danger

Hazard Statement:

H226: Flammable liquid and vapour

H360: May damage fertility or 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/sparks/open flames/hot surfaces. — 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.

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

P281: Use personal protective equipment as required.

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

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

P370 + P378: In case of fire: Use ... for extinction.

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

P405: Store locked up.

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P501:Dispose of contents/container to ...

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	Index No.	CAS No.	EC No.	Concentration	Classification according to EU CLP 1272/2008
2-methoxy-1-methyl ethyl acetate	N/A	607-195-00-7	108-65-6	203-603-9	> 99.0	Flam. Liq. 3; H226
2-methoxypropyl acetate	N/A	607-251-00-0	70657-70-4	274-724-2	< 0.5	Flam. Liq. 3; H226 Repr. 1B; H360D *** STOT SE 3; H335
Chemical Name	Registration No.	Index No.	CAS No.	EC No.	Concentration	Classification according to 67/548/EEC
2-methoxy-1-methyl ethyl acetate	N/A	607-195-00-7	108-65-6	203-603-9	> 99.0	R10
2-methoxypropyl acetate	N/A	607-251-00-0	70657-70-4	274-724-2	< 0.5	R10 Repr. Cat. 2; R61 Xi; R37

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. If not breathing, give artificial respiration.

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:

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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 damage fertility or 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.

5 Fire-Fighting measures

5.1 Extinguishing media:

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

Unsuitable extinguishing media: Water.

5.2 Special hazards arising from the substance or mixture

Flammable.

5.3 Advice for fire-fighters:

Clear fire area of all the non-emergency personal. Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Give an alarm immediately. Keep unauthorized personnel away. Isolate spill or leak area immediately. Wear appropriate personal protective equipment during cleanup. Dike ahead of liquid spill for later disposal. Prevent entry into sewers, waterways or confined areas.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust 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. Surfaces may become slippery after spillage. Shut off source of leak if safe to do so. Dike and contain spill. Prevent entry into sewers, waterways. Remove with vacuum trucks or pump to

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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.

6.5 Additional information:

Don't use a brush or compressed air for cleaning surfaces or clothing.

Clear spills immediately.

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 and strong oxidizing agents. Storage under nitrogen atmosphere is recommended to minimize possible formation of highly reactive peroxides. Store in properly lined steel/stainless steel to avoid slight discoloration from mild steel/copper. Aluminum (5000 series alloys - U.S. Aluminum Association Standard) showed no corrosion after 30 days contact with PM Acetate, or PM at 71°C(160°F). Some plastics/rubbers are attacked by Glycol Ethers/Ether Esters. This product will absorb water if exposed to air.

7.3 Specific end use(s):

Not applicable.

8 Exposure control/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure limits:

CAS#108-65-6	MAK (DE) / 2003	50 ppm	8 HRS/TWA
	MAK (DE) / 2003	50 ppm	8 HRS/TWA
	HSE (UK) / 2003	50 ppm	8 HRS/TWA
CAS#70657-70-4	MAK (DE) / 2004	25 ppm	15 MIN/TWA

8.1.2 Additional exposure limits under the conditions of use: Not available.

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8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Keep atmosphere be dry, and provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

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	Work clothing sufficient to prevent all skin contact should be worn, such as coveralls and long sleeves.
Respiratory protection	No need of special protection in ordinary situation. If vapors are present or irritation is experienced, an approved (e.g. NIOSH approved) respiratory protection for organic vapors should be worn.
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.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	Colorless
Odour:	Aromatic, fruity odor
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	-67°C
Boiling point/range (°C) :	143°C -149°C/101.325kpa
Flash point (°C) :	48°C
Evaporation rate:	Not available
Flammability (solid, gas);	Not available
Ignition temperature (°C) :	Not available
Upper/lower flammability/explosive limits:	Lower Flammable Limit: 1.5 vol% Upper Flammable Limit: 7.0 vol%
Vapour pressure:	4.6 mm Hg @ 25°C (77 °F)
Vapour density:	Not available
Relative Density :	0.965-0.975 g/cm ³ (20°C)

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Bulk density (kg/m ³) :	Not available
Water solubility (g/l) at 20 °C :	Appreciable
n-Octanol/Water (log Po/w) :	Not available
Auto-ignition temperature:	333 °C
Decomposition temperature:	Not available
Viscosity, dynamic (mPa s) :	1 mPa.s @ 25 °C (77 °F) (Brookfield).
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other information:

Fat solubility(solvent– oil to be specified) etc:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	0.96 @ 25 °C (77 °F)

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. Extended contact with air, oxygen and strong oxidizing agents.

10.5 Incompatible materials:

Strong oxidizing agents. Moisture and humidity. May react with oxygen to form peroxides. However, there is no known evidence that it has nearly the peroxide forming potential as, for example, diethyl ether, etc.

10.6 Hazardous decomposition products:

Upon decomposition or degradation, this product may yield Carbon Monoxide and other toxic vapors.

11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution

Non-human toxicological data: Not available

11.2 Information on toxicological effects

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Acute toxicity:

LD50(Oral, Rat): 6190 mg/kg bw(2-methoxy-1-methylethyl acetate)
LD50(Dermal Rabbit): > 5000 mg/kg bw(2-methoxy-1-methylethyl acetate)
LC50(Inhalation, Rat): Not available

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 fertility or the unborn child.

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

12 Ecological information

Toxicity:

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

Persistence and degradability: This product is biodegradable.

Bioaccumulative potential: Not available

Mobility in soil: Not available.

Results of PBT&vPvB assessment: Not available

Other adverse effects: Do not empty into drains.

13 Disposal considerations

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

13.2 Product / Packaging disposal:

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

14 Transport information

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	<i>Land transport (ADR/RID)</i>	<i>Sea transport (IMDG)</i>	<i>Air transport (ICAO/IATA)</i>
UN-Number:	3272	3272	3272
UN Proper shipping name:	ESTERS, N.O.S.	ESTERS, N.O.S.	ESTERS, N.O.S.
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 73/78 and the IBC Code	IBC03	IBC03	IBC03

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

Chemical Safety Assessment has been carried out?

YES

NO

16 Other information

16.1 Indication of changes

Version 1.1 Amended by EU No 453/2010

16.2 Relevant R- phrases (number and full text):

R10 Flammable.

R61 May cause harm to the unborn child.

16.3 Training instructions:

Not applicable.

16.4 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.

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16.5 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.