

Revision Date 17-Apr-2012

Revision Number 4

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Description:

2-(1-Methoxy)propyl acetate

Reach Registration Number

01-2119475791-29

Cat No.

413900000; 413900010; 413900250

Synonyms

1,2-Propanediol monomethyl ether acetate; Propylene glycol monomethyl ether acetate

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use

Laboratory chemicals

Uses advised against

No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

E-mail address

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300

CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Flammable liquids.

Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

R-phrases(s)

R10 - Flammable

Label Elements

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SECTION 2. HAZARDS IDENTIFICATION



Signal Word

H226 - Flammable liquid and vapor

Warning

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC Classification	CLP Classification - Regulation (EC) No 1272/2008	REACH No.
Propylene glycol monomethyl ether acetate 108-65-6	EEC No. 203-603-9	>95	108-65-6	R10	Flam. Liq. 3 (H226)	01-2119475791-29

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.

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Ingestion	Clean mouth with water. Get medical attention.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Notes to Physician	Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Flammable.

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Take precautionary measures against static discharges. Do not ingest. Use explosion-proof equipment. Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities

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Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Keep away from direct sunlight. Flammables area.

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits

Component
Propylene glycol
monomethyl ether
acetate

European Union	The United Kingdom	France	Belgium	Spain
TWA: 50 ppm 8 hr TWA: 275 mg/m ³ 8 hr STEL: 100 ppm 15 min STEL: 550 mg/m ³ 15 min	STEL: 100 ppm 15 min STEL: 548 mg/m ³ 15 min TWA: 50 ppm 8 hr TWA: 274 mg/m ³ 8 hr Skin	VME: 50 ppm 8 heures. restrictive limit VME: 275 mg/m ³ 8 heures. restrictive limit VLCT: 100 ppm VLCT: 550 mg/m ³ Skin	TWA: 50 ppm 8 uren TWA: 275 mg/m ³ 8 uren STEL: 100 ppm 15 minuten STEL: 550 mg/m ³ 15 minuten Skin	Skin VLA-EC: 100 ppm 15 minutos VLA-EC: 550 mg/m ³ 15 minutos VLA-ED: 50 ppm 8 horas VLA-ED: 275 mg/m ³ 8 horas

Component
Propylene glycol
monomethyl ether
acetate

Italy	Germany	Portugal	The Netherlands	Finland
TWA: 50 ppm 8 ore. TWA: 275 mg/m ³ 8 ore. STEL: 100 ppm 15 minuti. STEL: 550 mg/m ³ 15 minuti. Skin	MAK: 50 ppm 8 Stunden. MAK: 270 mg/m ³ 8 Stunden. Peak: 50 ppm Peak: 270 mg/m ³ TWA: 50 ppm 8 Stunden. exposure factor 1 TWA: 270 mg/m ³ 8 Stunden. exposure factor 1		TWA: 550 mg/m ³ 8 uren	TWA: 50 ppm 8 tunteina TWA: 270 mg/m ³ 8 tunteina STEL: 100 ppm 15 minuutteina STEL: 550 mg/m ³ 15 minuutteina Skin

Component
Propylene glycol
monomethyl ether
acetate

Austria	Denmark	Switzerland	Poland	Norway
Skin STEL: 100 ppm 15 Minuten STEL: 550 mg/m ³ 15 Minuten TWA: 50 ppm 8 Stunden TWA: 275 mg/m ³ 8 Stunden	TWA: 50 ppm 8 timer TWA: 275 mg/m ³ 8 timer Skin	STEL: 50 ppm 15 Minuten STEL: 275 mg/m ³ 15 Minuten MAK: 50 ppm 8 Stunden MAK: 275 mg/m ³ 8 Stunden	NDSch: 520 mg/m ³ 15 minutach NDS: 260 mg/m ³ 8 godzinach	TWA: 50 ppm 8 timer TWA: 270 mg/m ³ 8 timer STEL: 75 ppm 15 minutter. STEL: 337.5 mg/m ³ 15 minutter. Skin

Component
Propylene glycol
monomethyl ether
acetate

Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
TWA: 275.0 mg/m ³ STEL: 550.0 mg/m ³ Skin notation	Skin Notation TWA: 50 ppm 8 satima. TWA: 275 mg/m ³ 8 satima. STEL: 100 ppm 15 minutama. STEL: 550 mg/m ³ 15 minutama.	TWA: 50 ppm 8 hr. TWA: 275 mg/m ³ 8 hr. STEL: 100 ppm 15 min STEL: 550 mg/m ³ 15 min Skin	Skin-potential for cutaneous absorption STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	TWA: 270 mg/m ³ 8 hodinách. Potential for cutaneous absorption Ceiling: 550 mg/m ³

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Component Propylene glycol monomethyl ether acetate

Estonia	Gibraltar	Greece	Hungary	Iceland
Skin notation TWA: 50 ppm 8 tundides. TWA: 50 mg/m ³ 8 tundides. TWA: 50 ppm 8 tundides. Propyleneglycol monomethylether TWA: 275 mg/m ³ 8 tundides. Propyleneglycol monomethylether STEL: 100 ppm 15 minutes. Propyleneglycol monomethylether acetate STEL: 550 mg/m ³ 15 minutes. Propyleneglycol monomethylether acetate STEL: 275 ppm 15 minutes. STEL: 100 mg/m ³ 15 minutes.	Skin notation TWA: 50 ppm 8 hr TWA: 275 mg/m ³ 8 hr STEL: 100 ppm 15 min STEL: 550 mg/m ³ 15 min	skin - potential for cutaneous absorption STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	STEL: 550 mg/m ³ 15 percekben. TWA: 275 mg/m ³ 8 órában.	STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm 8 klukkustundum. TWA: 275 mg/m ³ 8 klukkustundum. Skin notation Ceiling: 100 ppm Ceiling: 550 mg/m ³

Component Propylene glycol monomethyl ether acetate

Latvia	Lithuania	Luxembourg	Malta	Romania
skin - potential for cutaneous exposure STEL: 100 ppm STEL: 550 mg/m ³ TWA: 50 ppm TWA: 275 mg/m ³	TWA: 50 ppm TWA: 250 mg/m ³ Skin notation STEL: 75 ppm STEL: 400 mg/m ³	Possibility of significant uptake through the skin TWA: 50 ppm 8 Stunden TWA: 275 mg/m ³ 8 Stunden STEL: 100 ppm 15 Minuten STEL: 550 mg/m ³ 15 Minuten	possibility of significant uptake through the skin TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm 15 minuti STEL: 550 mg/m ³ 15 minuti	Skin notation TWA: 50 ppm 8 ore TWA: 275 mg/m ³ 8 ore STEL: 100 ppm 15 minute STEL: 550 mg/m ³ 15 minute

Component Propylene glycol monomethyl ether acetate

Russia - TWA	Slovak Republic	Slovenia	Sweden	Turkey
MAC: 10 mg/m ³	Potential for cutaneous absorption Ceiling: 550 mg/m ³	TWA: 50 ppm 8 urah TWA: 275 mg/m ³ 8 urah Potential for cutaneous absorption STEL: 100 ppm 15 minutah STEL: 550 mg/m ³ 15 minutah	STV: 75 ppm 15 minuter STV: 400 mg/m ³ 15 minuter LLV: 50 ppm 8 timmar. LLV: 250 mg/m ³ 8 timmar. Skin notation	Skin notation TWA: 50 ppm 8 saat TWA: 275 mg/m ³ 8 saat STEL: 100 ppm 15 dakika STEL: 550 mg/m ³ 15 dakika

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

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Predicted No Effect Concentration (PNEC) No information available.

Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment

Eye Protection Goggles
Hand Protection Protective gloves
Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure
Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Colorless
odor	Petroleum distillates
pH	No information available.
Boiling Point/Range	146°C / 294.8°F@ 760 mmHg
Melting Point/Range	-87°C / -124.6°F
Flash Point	42°C / 107.6°F
Autoignition Temperature	333°C / 631.4°F
Explosion Limits	
Lower	1.5
Upper	7
Water Solubility	19.8 g/L (25°C)
Specific Gravity	0.960
Molecular Formula	C6 H12 O3
Molecular Weight	132.16

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.
Hazardous Reactions . No information available.

Conditions to Avoid

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Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

Incompatible Materials

Strong acids, Strong bases.

Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

Component Information

Component

Propylene glycol monomethyl ether acetate

LD50 Oral	LD50 Dermal	LC50 Inhalation
8532 mg/kg (Rat)	5000 mg/kg (Rabbit)	

Chronic Toxicity

Carcinogenicity

There are no known carcinogenic chemicals in this product

Sensitization

No information available.

Mutagenic Effects

No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

Target Organs

No information available.

Other Adverse Effects

See actual entry in RTECS for complete information

Endocrine Disruptor Information

None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity effects

Do not empty into drains

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Propylene glycol monomethyl ether acetate		161 mg/L LC50 96 h		500 mg/L EC50 > 48 h

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Persistence and degradability

Expected to be biodegradable

Bioaccumulative potential

No information available.

Component	log Pow
Propylene glycol monomethyl ether acetate	0.43

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	1993
Hazard Class	3
Packing Group	III

ADR

UN-No	1993
Hazard Class	3
Packing Group	III

IATA

UN-No	1993
Hazard Class	3

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SECTION 14. TRANSPORT INFORMATION

Packing Group

III

SECTION 15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
Propylene glycol monomethyl ether acetate	203-603-9	-		P	X	-	X	X	X	X	X

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable

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Revision Summary

Reason for revision

(M)SDS sections updated, 1, 3.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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SECTION 16. OTHER INFORMATION**Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet