

SAFETY DATA SHEET

Preparation Date: 07/02/2015

Revision Date: 09/18/2017

Revision Number: G2

1. IDENTIFICATION

Product identifier

Product code: P1439
Product Name: PROPYLENE GLYCOL METHYL ETHER ACETATE

Other means of identification

Synonyms: 1-Methoxy-2-acetoxypropane
 1-Methoxy-2-propyl acetate
 2-Propanol, 1-methoxy-, acetate (9CI)
 Dowanol (R) PMA glycol ether acetate
 PGMEA
 Propylene glycol monomethyl acetate
 Propylene glycol monomethyl ether acetate
 Propyleneglycol monomethyl ether acetate
 2-(Methoxy)propyl Acetate
 (2-Acetoxy-1-methoxypropane)
 1-Methoxy-2-propanol Acetate

CAS #: 108-65-6
RTECS # AI8925000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Solvent.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person: Martin LaBenz (West Coast)

Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Flammable liquids	Category 3
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Label elements

Warning

Flammable liquid and vapor

**Hazards not otherwise classified (HNOC)**

Not Applicable

Other hazards

May be harmful in contact with skin

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/.../equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection

In case of fire: Use CO₂, dry chemical, or foam to extinguish.

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

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Propylene Glycol Methyl Ether Acetate	108-65-6	100

4. FIRST AID MEASURES**First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops.

Eye Contact:

Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Do not induce vomiting without medical advice. Never give anything by mouth to an

Product code: P1439**Product name:** PROPYLENE
GLYCOL METHYL ETHER ACETATE**2 / 12**

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO₂). Dry chemical. Water spray mist or foam. Alcohol-resistant foam.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide.

Specific hazards: Flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Pay attention to flashback. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Take precautionary measures against static discharges. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Oxidizing agents
Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Propylene Glycol Methyl Ether Acetate	108-65-6	None	None	None	50 ppm TWA

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Propylene Glycol Methyl Ether Acetate	108-65-6	None	50 ppm TWA 75 ppm STEL	50 ppm TWA 270 mg/m ³ TWA	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Propylene Glycol Methyl Ether Acetate	108-65-6	100 ppm STEL 548 mg/m ³ STEL 50 ppm TWA 274 mg/m ³ TWA	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:

Goggles

Skin and body protection:

Long sleeved clothing
Chemical resistant apron
Gloves

Respiratory protection:

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures:

Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Appearance:

No information available.

Color:

Colorless.

Odor:

Ether-like. Mild. Fruity.

Taste

No information available.

Formula:

C6-H12-O3

Molecular/Formula weight:

132.16

Flammability:

Flammable

Flash point (°C):

42

Flashpoint (°C/°F):

42-46 °C/107.6-115 °F

Flash Point Tested according to:

Closed cup

Autoignition Temperature (°C/°F):

315-354.4 °C/599-670 °F

Lower Explosion Limit (%):

Product code: P1439

Product name: PROPYLENE
GLYCOL METHYL ETHER ACETATE

5 / 12

1.3-1.5%

Upper Explosion Limit (%):
7-13.2%

Melting point/range(°C/°F):
-87 to -67 °C/-124.6 to -89 °F

Decomposition temperature(°C/°F):
No information available

Boiling point/range(°C/°F):
145.8-150 °C/294.4-302 °F @ 760 mm Hg

Bulk density:
No information available

Density (g/cm3):
0.965-0.97 @ 20 °C

Specific gravity:
0.964-0.969 @ 20 °C

pH:
No information available

Vapor pressure @ 20°C (kPa):
0.49

Evaporation rate:
No information available

Vapor density:
4.6

VOC content (g/L):
964-970

Odor threshold (ppm):
No information available

Partition coefficient (n-octanol/water):
0.36-0.43

Viscosity:
No information available

Miscibility:
No information available

Solubility:
Soluble in Water

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids
Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Oxidizing agents
Acids

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Ingestion. Inhalation.

Acute Toxicity

Component Information

Propylene Glycol Methyl Ether Acetate

CAS-No. | 108-65-6

Product code: P1439

Product name: PROPYLENE
GLYCOL METHYL ETHER ACETATE

6 / 12

LD50/oral/rat = = 8532 mg/kg Oral LD50 Rat
LD50/oral/mouse = >5000 mg/kg
LD50/dermal/rabbit = 5 g/kg Dermal LD50Rabbit
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 8532 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = >5000 mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 5000 mg/kg

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	Not likely to cause skin irritation.
Eye Contact:	May cause eye irritation. Mild eye irritation. May cause conjunctivitis. May cause corneal opacity.
Inhalation	May cause respiratory tract irritation.
Ingestion	Health injuries are not known or expected under normal use.
Aspiration hazard	No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity	Prolonged or repeated ingestion may affect the liver, and kidneys. Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated inhalation may affect the liver. Prolonged or repeated inhalation may cause degeneration of the olfactory epithelium in the nasal cavities. Prolonged skin contact may cause skin irritation.
Sensitization:	No information available.
Mutagenic Effects:	No information available

Carcinogenic effects: No information available.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Propylene Glycol Methyl Ether Acetate	108-65-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Target Organs: Liver. Kidneys.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Propylene Glycol Methyl Ether Acetate - 108-65-6

Freshwater Fish Species Data: 161 mg/L LC50 Pimephales promelas 96 h static 1

Water Flea Data: 500 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: Readily biodegradable

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Propylene Glycol Methyl Ether Acetate	108-65-6	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: UN3272,Esters, n.o.s. ,3,,PG III

TDG (Canada)

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: ESTERS, N.O.S.(Propylene Glycol Methyl Ether Acetate),3,UN3272,PG III

ADR

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Packing Group: III
Subsidiary Risk: No information available
Description: UN3272 Esters, n.o.s.(Propylene Glycol Methyl Ether Acetate),3,III

IMO / IMDG

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No information available
EMS: F-E

RID

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: III
Description: UN3272 Esters, n.o.s.(Propylene Glycol Methyl Ether Acetate),3,III,RID

ICAO

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
Description: Esters, n.o.s.(Propylene Glycol Methyl Ether Acetate),3,UN3272,PG III

IATA

UN-No: UN3272
Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 3L
Special Provisions No information available
Description: UN3272, Esters, n.o.s. (Propylene Glycol Methyl Ether Acetate), 3, PG III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Propylene Glycol Methyl Ether Acetate	108-65-6	Present P	Present KE-23315	Present	Present (2)-3144	Present	Present	Present 203-603-9

U.S. Regulations

Propylene Glycol Methyl Ether Acetate

Louisiana Reportable Quantity List for Pollutants: 5000 lb. (listed as Volatile Organic Compounds)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Propylene Glycol Methyl Ether Acetate	108-65-6	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Propylene Glycol Methyl Ether Acetate	108-65-6	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) - Health and Safety Reporting
Propylene Glycol Methyl Ether Acetate	108-65-6	Not Applicable	01/26/199412/19/1995

Canada**WHMIS 2015 - GHS Classifications**

WHMIS 2015 Hazard Classification Information:

Product code: P1439

Product name: PROPYLENE
GLYCOL METHYL ETHER ACETATE

10 / 12

Component
Propylene Glycol Methyl Ether Acetate
108-65-6 (100)

WHMIS 2015 Hazard Classification
Flammable liquids - Category 3: H226 Flammable liquid and vapour.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

B3 Combustible liquid

Components

Propylene Glycol Methyl Ether Acetate

WHMIS 1988

B3

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Propylene Glycol Methyl Ether Acetate	108-65-6	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Propylene Glycol Methyl Ether Acetate	108-65-6	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Propylene Glycol Methyl Ether Acetate	108-65-6	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Propylene Glycol Methyl Ether Acetate	108-65-6	Flammable liquids - Flam. Liq. 3: H226 Flammable liquid and vapour.607-195-00-7

EU - CLP (1272/2008)

R-phrase(s)

R10 - Flammable.

S -phrase(s)

S 2 - Keep out of the reach of children.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Propylene Glycol Methyl Ether Acetate	108-65-6	R10	No information	S2

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Flammable

16. OTHER INFORMATION

Preparation Date: 07/02/2015
Revision Date: 09/18/2017
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet