SAFETY DATA SHEET

Preparation Date: No data available **Revision Date:** 07/02/2015 **Revision Number:** G1

Product identifier

Product code: M2634
Product Name: 1-METHOXY-2-PROPANOL 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)
Propylene Glycol Methyl Ether 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 by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3

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 %	Trade Secret
1-Methoxy-2-propanol Acetate 108-65-6	108-65-6	100	*

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

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

Eye Contact: Flush eye 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 unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye irritation. May cause 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

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 Sweep up and shovel into suitable containers for disposal

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 segrated and approved area.

Incompatible Materials:
Oxidizing agents. Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
1-Methoxy-2-propanol Acetate 108-65-6	None	None	None	50 ppm TWA

Canada

Components	Alberta	British Columbia	Ontario	Quebec
1-Methoxy-2-propanol Acetate 108-65-6	None	50 ppm TWA 75 ppm STEL	50 ppm TWA 270 mg/m^3 TWA	None

Australia and Mexico

Components	Australia	Mexico
1-Methoxy-2-propanol 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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.	**Appearance:** No information available	**Color:** Colorless.
Odor: Ether-like. Mild. Fruity.	**Taste** No information available	**Molecular/Formula weight:** 132.16
Formula: C6-H12-O3	**Flammability:** No information available	**Flash point (°C):** 42
Flashpoint (°C/°F): 42-46 °C/107.6-115 °F	**Flash Point Tested according to:** Closed cup	**Lower Explosion Limit (%):** 1.3-1.5%
Upper Explosion Limit (%): 7-13.2%	**Autoignition Temperature (°C/°F):** 315-354.4 °C/599-670 °F	**pH:** No information available
Melting point/range(°C/°F): -87 to -67 °C/-124.6 to -89 °F	**Boiling point/range(°C/°F):** 145.8-150 °C/294.4-302 °F @ 760 mm Hg	**Decomposition temperature(°C/°F):** No information available
Bulk density: No information available	**Specific gravity:** 0.964-0.969 @ 20 °C	**Vapor pressure @ 20°C (kPa):** 0.49
Density (g/cm3): No information available	**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

1-Methoxy-2-propanol Acetate - 108-65-6

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

Product Information

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

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 5g/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	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
1-Methoxy-2-propanol Acetate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

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.

1-Methoxy-2-propanol 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

13. DISPOSAL CONSIDERATIONS

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	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
1-Methoxy-2-propanol Acetate	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 Risk:	No information available
Packing Group:	None
ERG No:	127
Marine Pollutant	No data available
DOT RQ (lbs):	No information available

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
Description:	No information available

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
Classification Code:	No information available
Description:	No information available
CEFIC Tremcard No:	No information available

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
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
EMS:	F-E
MFAG:	No information available
Maximum Quantity:	No information available

RID

UN-No:	UN3272

14. TRANSPORT INFORMATION

Proper Shipping Name: Esters, n.o.s. (1-methoxy-2-propanol acetate)
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: III
Classification Code: No information available
Description: No information available

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: No information available

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
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
1-Methoxy-2-propanol Acetate	Present P	Present KE-23315	Present	Present (2)-3144	Present	Present	Present 203-603-9

U.S. Regulations

1-Methoxy-2-propanol Acetate

Louisana 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	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
1-Methoxy-2-propanol Acetate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	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*
1-Methoxy-2-propanol Acetate	None	None	None	None	None

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
1-Methoxy-2-propanol Acetate	Not Applicable	01/26/199412/19/1995

Canada

WHMIS hazard class:
B3 Combustible liquid

1-Methoxy-2-propanol Acetate
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	Canada (DSL)	Canada (NDSL)
1-Methoxy-2-propanol Acetate	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
1-Methoxy-2-propanol Acetate	Not listed	Not listed

EU Classification

R-phrase(s)
R10 - Flammable.

S -phrase(s)
S 2 - Keep out of the reach of children.

Components	Classification	Concentration Limits:	Safety Phrases
1-Methoxy-2-propanol Acetate	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

Revision Date: 07/02/2015
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