

# SAFETY DATA SHEET

## 1. IDENTIFICATION

### 1.1 Product identifier

**Product Name:** Propylene Glycol Monomethyl Ether Acetate

**Product Number(s):** 40789

**Synonyms:** 1-Methoxy-2-acetoxypropane; Acetic acid, 2-methoxy-1-methylethyl ether; 1,2-Propanediol monomethyl ether acetate; 1-Methoxy-2-propanol acetate

**CAS #:** 108-65-6

### 1.2 Recommended use of the chemical and restrictions on use

**Uses:** Solvent for inks and coatings

**Restrictions:** No data available

### 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Johann Haltermann, Ltd.

16717 Jacintoport Blvd.

Houston, TX 77015 USA

281-452-5951

Fax: 281-457-1127

[sds@jhaltermann.com](mailto:sds@jhaltermann.com)

E-mail contact for SDS

### 1.4 Emergency telephone number

832-376-2026

24 HR Emergency Assistance

800-424-9300

24 HR CHEMTREC

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to 29 CFR §1910.1200 (d)**

Flammable liquids (Category 3)

Toxic to reproduction (Category 1B)

### 2.2 Label elements

**Labeling according to 29 CFR §1910.1200 (f)**

**Pictograms(s):**



**Signal word:** Danger

**Hazard statement(s):**

Flammable liquid and vapor.

May damage fertility or the unborn child.

**Precautionary statement(s):****Prevention:**

Obtain special instructions before use.

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

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.

Take precautionary measures against static discharge. Use only non-sparking tools.

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

**Response:**

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

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use powder, alcohol resistant foam, water in large amounts, or carbon dioxide for extinction.

**Storage:**

Store in a well-ventilated place. Keep cool.

Store locked up.

**Disposal:**

Dispose of contents/container to in accordance with local/regional/national/international regulations.

**2.3 Other hazards**

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Chemical Name	CAS #	EINECS	Index Number	Amount
1-METHOXY-2-PROPANOL ACETATE	108-65-6	203-603-9	607-195-00-7	>99.5%
2-METHOXY-1-PROPANOL ACETATE	70657-70-4	274-70-4	607-251-00-0	<0.3%

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

IF exposed or concerned: Get medical advice/attention.

Show this this safety data sheet to the doctor in attendance.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

#### Skin Contact

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

If skin irritation occurs: Get medical advice/attention.

#### Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### Ingestion

If swallowed, rinse mouth and rest. Call physician or poison control center immediately.

Give a slurry of activated charcoal in water to drink.

Do NOT induce vomiting.

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

#### Acute

The substance and the vapor is irritating to the eyes and the respiratory tract .

Eye irritation signs and symptoms may include redness and pain.

Respiratory irritation signs and symptoms may include cough, dizziness, drowsiness, headache, nausea, and sore throat.

Exposure at high levels may result in central nervous system depression.

#### Delayed

Long term or repeated exposure to this material may defat the skin.

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

No data available.

## 5. FIRE FIGHTING MEASURES

### 5.1 Suitable Extinguishing Media

In case of fire: Use powder, alcohol resistant foam, water in large amounts, or carbon dioxide to extinguish.

Use water spray to cool fire exposed containers.

### Unsuitable Extinguishing Media

No data available.

### 5.2 Specific hazards arising from the chemical

Above the flash point, explosive vapor/air mixtures may be formed.

### 5.3 Special protective equipment and precautions for fire-fighters

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

### 5.4 Further information

No data available.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Protective Measures

Evacuate spill area.

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Stay upwind and keep out of low area. Remove all possible sources of ignition in the surrounding area.

Personal protection: see Section 8.

Ventilate contaminated area thoroughly shut off leaks if possible without personal risk.

### 6.2 Methods and material for containment and cleaning up

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash away the remainder with plenty of water.

### 6.3 Environmental precautions

Use appropriate containment of product and fire fighting water to avoid environmental contamination. Prevent from spreading or entering drains, ditches, or rivers by using sand, earth, or other appropriate barriers.

Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

#### 6.4 Reference to other sections

Refer to Section 8 for personal protection advice and Section 13 for disposal information.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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

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

Keep container tightly closed.

Avoid breathing vapors or mists. Avoid contact with eyes or skin.

Do not eat, drink or smoke when using this product.

Take precautionary measures against static discharge.

Use only non-sparking tools.

Wash thoroughly after handling.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Ensure that all local regulations regarding handling and storage facilities are followed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Permissible Exposure Limits

Compound Name	CAS #	Value 1	Value 2	BEI/Skin Notation
1-METHOXY-2-PROPANOL ACETATE	108-65-6	AIHA WEEL TWA: 100 ppm	N.D.	N.D.

N.D. - No data available

AIHA: American Industrial Hygiene Association

WEEL: Workplace Environmental Exposure Level

BEI: Biological Exposure Determinants

#### 8.2 Appropriate Engineering Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures may include the following:

Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure limits. Local exhaust ventilation is recommended.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### 8.3 Personal Protective Equipment

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

All personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers for more information.

#### Respiratory Protection

Use only with adequate ventilation. If engineering controls do not maintain airborne concentrations at a level which is adequate to protect worker health, an approved respirator should be used.

When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Contact respirator supplier for specific recommendations.

For situations where high concentrations of vapors may be present, use an approved supplied air respirator operated in positive pressure mode.

#### Hand Protection

Where hand contact with this material may occur, use gloves that meet applicable standards. Suitable materials include Neoprene and Nitrile rubber.

Specific glove information is provided based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending upon the specific use conditions.

Contact glove manufacturer for advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves.

#### Eye Protection

Chemical splash goggles which meet the national standards should be used when handling this material.

#### Skin Protection

Chemical resistant apron or coat and gloves should be used when handling this material.

#### Specific Hygiene Measures

Do not eat, drink, or smoke when handling this material. Wash hands thoroughly after handling.

Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

#### Monitoring Methods

Monitoring of the vapor concentrations of chemicals in the workplace may be required to confirm compliance with OEL and adequacy of exposure controls.

Sources for recommended air monitoring methods include:

USA: National Institute of Occupational Safety and Health (NIOSH): Manual of Analytical Methods, <http://www.cdc.gov/niosh/nmam/nmammenu.html>.

USA: Occupational Safety and Health Administration (OSHA): Sampling and Analytical Methods, <http://osha.gov/dts/sltc/methods/toc.html>.

**Environmental Exposure Controls**

Local guidelines for emissions limits for volatile substances must be observed for the discharge of exhaust air containing vapors.

See Sections 6, 7, 12, and 13 for more information on environmental exposure controls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

(a) Appearance	Form:	Liquid			
	Color:	Colorless			
(b) Odor		Characteristic			
(c) Odor threshold		No data available			
(d) pH		No data available			
(e) Melting/freezing point		-67	°C	-88.6	°F
(f) Initial boiling point and boiling range		146.0	°C	294.8	°F
(g) Flash point		42	°C	107.6	°F
(h) Evaporation rate		0.39	(Butyl acetate = 1)		closed cup
(i) Flammability (solid, gas)		No data available			
(j) Upper/lower flammability or explosive limits		1.5 - 7.0	volume % in air		
(k) Vapor pressure		3.8	mm Hg at 20°C		
(l) Vapor density		4.6	(Air = 1)		
(m) Relative density		0.96	(water = 1)		
(n) Solubility (ies)	in water	19.8	g/100 mL		
(o) Partition coefficient: n-octanol/water		0.56			
(p) Auto-ignition temperature		315	°C	599.0	°F
(q) Decomposition temperature		No data available			
(r) Viscosity		No data available			

**9.2 Other information**

Chemical formula	$C_6H_{12}O_3$
Molecular weight	132.2

## 10. STABILITY AND REACTIVITY

**10.1 Reactivity**

No data available

**10.2 Chemical Stability**

This material is expected to be stable under normal conditions of use.

Hazardous polymerization will not occur.

**10.3 Possibility of hazardous reactions**

Reacts with strong oxidants.

**10.4 Conditions to Avoid**

No data available

**10.5 Incompatible materials**

Avoid contact with strong oxidizing agents.

**10.6 Hazardous Decomposition Products**

In the event of fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.

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**11. TOXICOLOGICAL INFORMATION**

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**11.1 Likely routes of exposure**

Likely routes of exposure include: inhalation, eye and skin contact, and ingestion.

**11.2 Signs and symptoms of exposure**

Eye irritation signs and symptoms may include redness and pain.

Skin irritation signs and symptoms may include dry skin.

Breathing of high vapor concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea, and loss of coordination.

Respiratory irritation signs and symptoms may include cough, drowsiness, headache, nausea, and sore throat.

Ingestion signs and symptoms may include abdominal pain, diarrhea, and unconsciousness.

**11.3 Delayed and immediate effects/Chronic effects from short- and long-term exposure****Eye**

Contact with eyes may cause redness and pain. Serious/permanent damage is not expected to occur.

**Skin**

Contact with skin may cause dry skin. Serious/permanent damage is not expected to occur.

**Inhalation**

Inhalation of this material may cause: cough, dizziness, drowsiness, nausea, and sore throat.

**Ingestion**

Ingestion of this material may cause abdominal pain, diarrhea, and unconsciousness.

**Chronic effects**

Long term or repeated exposure to this material defats the skin.



**Subchronic effects**

This substance and vapor is irritating to the eyes and respiratory tract. The substance may cause effects on the central nervous system resulting in depression.

**Respiratory or skin sensitization**

No data available.

**Germ cell mutagenicity**

No data available.

**Reproductive toxicity**

2-Methoxy-1-propanol acetate has been shown to cause effects on unborn fetus in animals.

**Specific target organ toxicity - single exposure**

No data available.

**Specific target organ toxicity - repeat exposure**

No data available.

**Aspiration hazard**

No data available.

**Potential health effects**

Irritating to the respiratory system and eyes.

Inhalation of this material at high concentrations may result in central nervous system depression.

**11.4 Acute Toxicity Estimates**

Compound Name	CAS #	TEST - SPECIES - RESULT
1-METHOXY-2-PROPANOL ACETATE	108-65-6	Oral LD50 - Rat: 8532 mg/kg; Dermal LD50 - Rabbit: >5000 mg/kg; Inhalation LC50 - Rat: 4345 ppm /6 hr
2-METHOXY-1-PROPANOL ACETATE	70657-70-4	N.D.

N.D. - No data available

**11.5 Carcinogenicity****IARC (International Agency for Research on Cancer):**

No component of this product present in concentrations of 0.1% or greater is identified by IARC to be a probable, possible, or confirmed carcinogen.

**NTP (National Toxicology Program):**

No component of this product present in concentrations of 0.1% or greater is identified by NTP to be a known or reasonably anticipated carcinogen.

**OSHA (U.S. Occupational Health and Safety Administration):**

No component of this product present in concentrations of 0.1% or greater is identified by OSHA to be a carcinogen or potential carcinogen.

## 12. ECOLOGICAL INFORMATION

**12.1 Ecotoxicity**

Compound Name	CAS #	TEST-SPECIES-RESULTS
1-METHOXY-2-PROPANOL ACETATE	108-65-6	EC 50 - Daphnia Magna: >1000 mg/ L/ 48 Hr
2-METHOXY-1-PROPANOL ACETATE	70657-70-4	N.D.

N.D. - No data available

**12.2 Persistence and Degradability**

This material is expected to be inherently biodegradable.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Other adverse effects**

No data available.

## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods****Product disposal**

Recover or recycle if possible.

It is the responsibility of the waste generator to determine the physical characteristics and toxicity of the material generated in order to properly designate the waste classification and disposal methods in compliance with applicable regulations.

Do not dispose into the environment, in drains, or allow to enter waterways. Waste product should not be allowed to contaminate soil or water.

Dispose of contents/container to in accordance with local/regional/national/international regulations.

**Container disposal**

Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed.

Empty containers should be taken for recycling, recovery, or disposal through a suitable qualified or licensed contractor and in accordance with governmental regulations.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition as this may cause them to explode.

<b>14. TRANSPORT INFORMATION</b>
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**Land (U.S. DOT)**

<b>14.1 UN number:</b>	3272
<b>14.2 Proper Shipping Name:</b>	Esters, N.O.S (Propylene glycol monomethyl ether acetate)
<b>14.3 Transport Hazard Class:</b>	3
<b>14.4 Packing Group:</b>	III
<b>14.5 Environmental Hazards:</b>	
IMDG Marine pollutant:	No
<b>14.6 Special precautions for the user</b>	
ERG (Emergency Response Guide) Number:	127

**Sea (IMDG)**

<b>14.1 UN number:</b>	3272
<b>14.2 Proper Shipping Name:</b>	Esters, N.O.S (Propylene glycol monomethyl ether acetate)
<b>14.3 Transport Hazard Class:</b>	3
<b>14.4 Packing Group:</b>	III
<b>14.5 Environmental Hazards:</b>	
IMDG Marine pollutant:	No
<b>14.6 Special precautions for the user</b>	
EMS:	F-E, S-D
Hazard Identification Number (HIN):	30

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code**

**MARPOL Category:** No data available

**IBC Code:** IBC02

## 15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of 29 CFR §1910.1200

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA) or are exempt from reporting.

As defined under SARA 311 and 312, this product contains materials that are designated as having the following hazards:           Acute           Fire

#### FEDERAL REGULATORY LISTS:

Compound Name	CAS #	HAP <sup>1</sup>	SARA 313 <sup>3</sup>	CERCLA RQ (lb) <sup>4</sup>	RCRA Code <sup>5</sup>	CAA 112(r) <sup>2</sup>
1-METHOXY-2-PROPANOL ACETATE	108-65-6	N.L.	N.L	N.L	N.L	N.L
2-METHOXY-1-PROPANOL ACETATE	70657-70-4	N.L.	N.L	N.L	N.L	N.L

N.L. - Not listed on regulatory list

#### Clean Air Act - CAA

<sup>1</sup> HAP: Hazardous Air Pollutant under the Clean Air Act Section 112 (b) [42 U.S.C. 7401 et seq]

<sup>2</sup>CAA 112(r): Regulated Toxic Substances and Threshold Quantities for Accidental Release Prevention [40 CFR 68]

#### Superfund Amendments and Reauthorization Act - SARA Title III

SARA 311/312: Hazardous Chemical Reporting [40CFR 370.2]

<sup>3</sup>SARA 313: Toxic Chemical Release Reporting [40CFR 372.65]

#### Comprehensive Environmental Response, Compensation, and Liability Act - CERCLA

<sup>4</sup>Reportable Quantities - RQ [40 CFR 302]

<sup>5</sup>Resource Conservation and Recovery Act - RCRA Waste Codes [40 CFR 302]

#### CALIFORNIA REGULATIONS:

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

#### PENNSYLVANIA REGULATIONS:

To the best of our knowledge, this product does not contain any components cited on the Pennsylvania Special Hazardous Substances List, Pennsylvania Hazardous Substances List, or Pennsylvania Environmental Hazardous Substances List .

**ADDITIONAL STATE REGULATIONS:**

This material is not found on the following state lists: DE, FL, MA, MI, MN, NJ, NY, WI, RI.

**CANADIAN REGULATIONS:**

This material or all of its components are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) classification for this product is:

B3 - Combustible liquid with a flash point between 37.8° C and 93.3° C.

Compound Name	CAS #	REPORTING LIMIT (%)
1-METHOXY-2-PROPANOL ACETATE	108-65-6	1.0
2-METHOXY-1-PROPANOL ACETATE	70657-70-4	N.L.

N.L. - Not listed on regulatory list

Refer elsewhere in the MSDS for specific warnings and safe handling information.

Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

<b>16. OTHER INFORMATION</b>
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**Reason for Issue:** This revision updates Sections 2 and 3.  
**Approval date:** July 27, 2014  
**Supersedes date:** December 6, 2012

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END OF MSDS

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