1. IDENTIFICATION

Product Name: PROPYLENE GLYCOL METHYL ETHER
Synonyms: 1-Methoxy-2-propanol; Glycol Ether PM
Formula and Formula Weight: C4H10O2   90.12
Integra numbers beginning with: P924.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA  98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Toxic to Reproduction: 1B May damage fertility or the unborn child
Specific Target Organ Toxicity (single exposure): 3 May cause drowsiness or dizziness.
Flammable Liquids: 3 Flammable liquid and vapor.

Signal Word: Danger

Precautionary Statements
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.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing fume, gas, mist, vapors, spray.
Use only outdoors or in a well-ventilated area.
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, shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned: Get medical advice, attention.
Call a poison center, doctor if you feel unwell.

Storage
Store locked up in a well ventilated place. Keep container tightly closedl. Keep cool.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol methyl ether</td>
<td>1-Methoxy-2-propanol; Glycol Ether PM</td>
<td>00107-98-2</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing.
Eye Contact: Flush eyes with water for at least 15 minutes. Seek medical attention.
Skin Contact: Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention.
Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Additional notes: Symptoms and effects include skin, eye, nose, throat irritation; cough, sore throat, bronchitis; headache, nausea, dizziness, drowsiness, incoordination; vomiting, diarrhea; kidney and lung damage.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, carbon dioxide, dry chemical, foam.
**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Vapor Pressure:**
12.5 mm Hg @25°C

**Odor:**
Ether-like odor

**Odor Threshold:**
0.003 ppm

**pH:**
Not available

**Partition Coefficient: n-octanol/water**
Not available

**Decomposition Temperature:**
270 °C

**Viscosity:**
Not available

**Appearance:**
Water-white liquid

**Melting/Freezing Point:**
-96 °C

**Initial Boiling Point and Boiling Range:**
120 °C

**Flash Point:**
90 °F

**Evaporation Rate:**
Not available

**Flammability:**
Not available

**Flammable or Explosive Limits (% by volume in air):**
Upper: 13.8
Lower: 1.5

**Vapor Pressure:**
12.5 mm Hg @25°C

**Vapor Density:**
3.12

**Relative Density:**
0.92 Water=1

**Solubility:**
Miscible with water

**Partition Coefficient: n-octanol/water**
Not available

**Auto-Ignition Temperature:**
270 °C

**Decomposition Temperature:**
Not available

**Viscosity:**
Not available

**10. STABILITY AND REACTIVITY**

**Stability:**
Stable

**Reactivity:**
No information available

**Possibility of Hazardous Reactions:**
Hazardous polymerization will not occur. May form peroxides on long standing.

**Conditions to Avoid:**
Heat, sparks and open flame. Air.

**Incompatibilities:**
Incompatible with strong acids and strong oxidizers.

**Special Equipment and Precautions:**
Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

**Specific Hazards:**
Vapors may flow along surfaces to distant ignition sources and flash back. Vapors may form an explosive mixture with air. May form peroxides. Containers may explode under fire conditions.

**Hazardous combustion products:**
Oxides of carbon.

**6. ACCIDENTAL RELEASE MEASURES**

**Spill Procedures:**
Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal.

**7. HANDLING AND STORAGE**

**Incompatible Materials:**
Incompatible with strong acids and strong oxidizers.

**Storage and Handling:**
Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking. Hygroscopic. May form peroxides on long standing and with exposure to air. Test for peroxide content.

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.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing fume, gas, mist, vapors, spray.

Use only outdoors or in a well-ventilated area.

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

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**OSHA & ACGIH Exposure Limits:**
- **Propylene glycol methyl ether**
  - ACGIH TWA: 100 ppm, 369 mg/m³
  - ACGIH STEL: 150 ppm, 553 mg/m³

**Engineering Controls:**
Use general or local exhaust ventilation to meet TLV and PEL requirements.

**Respiratory Protection:**
Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved chemical cartridge respirator with an organic vapor cartridge.

**Skin/Eye Protective Equipment:**
Safety goggles, protective clothing and gloves appropriate for the risk of exposure.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.

Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**
Water-white liquid

**Odor:**
Ether-like odor

**Odor Threshold:**
0.003 ppm

**pH:**
Not available

**Melting/Freezing Point:**
-96 °C

**Initial Boiling Point and Boiling Range:**
120 °C

**Flash Point:**
90 °F

**Evaporation Rate:**
Not available

**Flammability:**
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**Flammable or Explosive Limits (% by volume in air):**
Upper: 13.8
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**Vapor Pressure:**
12.5 mm Hg @25°C

**Vapor Density:**
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**Relative Density:**
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**Solubility:**
Miscible with water

**Partition Coefficient: n-octanol/water**
Not available

**Auto-Ignition Temperature:**
270 °C

**Decomposition Temperature:**
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**Viscosity:**
Not available

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11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:

Inhalation: Vapors may irritate the nose, throat, and mucous membranes. May cause cough, sore throat, bronchitis, headache, nausea, dizziness, drowsiness, incoordination, vomiting, diarrhea, kidney and lung damage. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects.

Skin Contact: Contact may cause skin irritation.

Eye Contact: Contact may be irritating to the eyes.

Ingestion: Ingestion of large quantities may cause gastrointestinal irritation, nausea and vomiting. May cause cough, sore throat, bronchitis, headache, dizziness, drowsiness, incoordination, diarrhea, kidney and lung damage.

Chronic Effects: Liver damage, kidney damage.

Target Organs: Eyes, skin, respiratory system, central nervous system. Liver, kidneys.

Additional Effects: None identified

Reproductive Effects: May damage fertility or the unborn child.

Carcinogenicity: None identified

Toxicity Data:

- Propylene glycol methyl ether LD₅₀ (oral, mouse) 11,700 mg/kg
- Propylene glycol methyl ether LD₅₀ (skin, rabbit) 13,000 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: No information available

Terrestrial Toxicity Data: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transportation, per CFR Title 49.

- UN Number: UN3092
- Proper Shipping Name: 1-Methoxy-2-propanol
- Packing Group: III
- Hazard Class: 3
- Environmental hazards: No information available
- Special precautions: No information available
- Bulk transport: No information available

15. REGULATORY INFORMATION

Propylene glycol methyl ether is listed in the TSCA inventory.

16. OTHER INFORMATION

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**** END OF SDS *****