Section 01 - Product Information

Identification of the company:
AZ Electronic Materials USA Corp.
70 Meister Avenue
Somerville, NJ 08876
Telephone No.: 800-515-4164

Information on the substance/preparation
Product Safety: 908-429-3562

Emergency Tel. number: 800-424-9300 CHEMTREC

Trade name: AZ 1500 Thinner

Section 02 - Composition information

Hazardous ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-no. (Trade secret no.)</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol acetate</td>
<td>108-65-6</td>
<td>100.00</td>
</tr>
</tbody>
</table>

Section 03 - Hazardous identification

Emergency overview: OSHA combustible liquid; DOT flammable liquid. Clear, colorless liquid with a strong characteristic odor. Partially dissolves in water. Irritating on contact or inhalation.

Expected route of entry
- Skin contact: yes
- Ingestion: no
- Inhalation: yes
- Eye contact: Contact with liquid and vapors.
- Skin absorption: yes

Health effects of exposure:

Component information:

Eye: Causes eye irritation. Skin: Causes skin irritation. Ingestion: May be harmful if swallowed. Inhalation: Single exposure unlikely to be hazardous. High vapor concentration causes irritation to the nose, throat, and lungs. Systemic Effects: No hazard in normal industrial use. Reproductive & birth defects: Exposures having no adverse effect on the mother should have no effect on the fetus.
1-Methoxy-2-propanol acetate (108-65-6)
1-Methoxy-2-propanol acetate (PGMEA) can cause skin, eye, and respiratory irritation. Extreme or prolonged exposure may cause gastric and central nervous system effects. Long term, high level exposure to PGMEA has resulted in adverse effects to the livers and kidneys of experimental animals. PGMEA is readily absorbed through intact skin.

<table>
<thead>
<tr>
<th>Listed carcinogen:</th>
<th>IARC: NO</th>
<th>NTP: NO</th>
<th>OSHA: NO</th>
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<tr>
<td>Health:</td>
<td>2</td>
<td>Flammability:</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>0</td>
<td>Personal protection:</td>
<td>X</td>
</tr>
</tbody>
</table>

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<tr>
<th>HMIS:</th>
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<th>Flammability:</th>
<th>Reactivity:</th>
<th>Special notice:</th>
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<tbody>
<tr>
<td>Health:</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>NONE</td>
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</table>

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<tr>
<th>NFPA:</th>
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<th>Flammability:</th>
<th>Reactivity:</th>
<th>Special notice:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**Section 04 - First aid measures**

**After inhalation:**
Remove victim to fresh air. Consult physician if irritation occurs.

**After contact with skin:**
Consult physician if exposure is extensive or if irritation occurs. Immediately remove contaminated clothing and wash affected area thoroughly with soap and water.

**After contact with eyes:**
Flush thoroughly with water for 15 minutes. Get immediate medical help.

**After ingestion:**
If person is conscious, give water or milk to dilute stomach contents. Never give anything by mouth to an unconscious person. Consult physician.

**Section 05 - Fire fighting measures**

**Flash point:**
116 °F
Method: closed cup

**Suitable extinguishing media:**
Carbon dioxide, water, alcohol resistant foam, dry chemical.

**Special fire fighting procedure:**
Use self-contained breathing apparatus and full protective clothing. Use water spray to cool drums in fire area.

**Special hazards from the substance itself, its combustion products or from its vapours:**
Solvent vapors. Emits toxic fumes under fire conditions.
Section 06 - Accidental release measures

Steps to be taken in case of spill or leak: Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak, remove all sparking devices or ignition sources, collect onto inert absorbent, and place in a suitable container.

Section 07 - Handling and Storage

Advice on safe handling:
- Keep away from heat and flame.
- Wash thoroughly after handling.
- Keep container closed.
- Avoid breathing vapors and contact with skin, eyes, and clothing.
- Use only with adequate ventilation and proper protective eyewear, gloves, and clothing.

Further information for storage conditions:
- Store at appropriate temperature. See label for details.
- Store in original container.
- Transport and store under dry conditions tightly closed.
- May liberate combustible solvent vapors.

Section 08 - Exposure Control / personal protection

Respiratory protection: Chemical cartridge respirator recommended for exposures exceeding TLV.

Hand protection: Solvent Resistant Gloves.

Eye protection: Safety eyewear to protect against splashes.

Body protection: Clothing suitable to prevent skin contact.

Additional advice on system design: Use local exhaust ventilation.

Section 09 - Physical and chemical properties

Form: Liquid
Color: Clear, colorless
Odor: Strong, characteristic odor.
Solubility in water: PGMEA 16%
Density: 0.965 g/cm³
Vapor pressure: 3.7 Torr

Section 10 - Stability and reactivity

Hazardous reactions: Stable.
Hazardous polymerization: Will not occur.
Conditions to avoid: Avoid contact with oxidizing agents. Avoid contact with strong acids. Avoid contact with alkaline materials.

Section 11 - Toxicological information

Acute oral toxicity: Testing in animals shows that this material is, not harmful (rat acute oral LD₅₀ > 5000 mg/kg).

Acute inhalation toxicity
This material is considered irritating to the respiratory tract. Testing in animals shows that this material is, not harmful (LC₅₀ greater than 10,000 ppm or 200 mg/L)

1-Methoxy-2-propanol acetate (108-65-6)
Acute oral toxicity: LD₅₀ rat (male) 8,500 mg/kg
Acute oral toxicity: LD₅₀ rat (female) 10,000 mg/kg

1-Methoxy-2-propanol acetate (108-65-6)
Acute inhalation toxicity LC₅₀ rat > 4350 ppm

1-Methoxy-2-propanol acetate (108-65-6)
Acute dermal toxicity: LD₅₀ rabbit > 5,000 mg/kg

Section 12 - Ecological information

1-Methoxy-2-propanol acetate (108-65-6)
Fish toxicity: (Fathead minnow) 161 mg/l
Section 13 - Disposal considerations

Product: Consult local, state, and federal regulations. For disposal, this material is a flammable hazardous waste under RCRA.

Section 14 - Transport information

Land transport

- **DOT:** Not restricted

Sea transport

- **IMDG:**
  - UN-No.: 1993
  - Proper technical name: FLAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-methylethyl acetate)
  - Class: 3
  - Packaging group: III
  - Marine pollutant: F-E, S-E
  - EmS: F-E, S-E
  - MFAG: 3
  - Labels: 3

Air transport

- **ICAO/IATA-DGR:**
  - UN/ID No.: UN 1993
  - Proper technical name: FLAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-methylethyl acetate)
  - Class: 3
  - Packaging group: III
  - Labels: 3

Section 15 - Regulatory information
TSCA Status: This product is listed on the TSCA Inventory.

SARA (section 311/312):
- Reactive hazard: no
- Pressure hazard: no
- Fire hazard: yes
- Immediate/acute: yes
- Delayed/chronic: no

SARA 313 information: This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.

Volatile organic compounds:
- Content VOC (g/l): 965 g/l
- Method: calculated

Section 16 - Other information

Label information

CAUTION!

COMBUSTIBLE LIQUID AND VAPOR HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN Contains material that, based on animal data, can cause skin, eye, and respiratory irritation. Prolonged or repeated overexposure may cause gastric and central nervous system effects.

Keep away from heat and flame. Avoid breathing vapor. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation, and proper protective eyewear, gloves, and clothing. Wash thoroughly after handling. Keep container closed.

In case of contact, flush eyes with plenty of water for 15 minutes. Get medical attention immediately. Flush affected skin areas with water, and wash with mild soap and water. Remove contaminated clothing. If INHALED, remove individual to fresh air. If breathing is difficult, give oxygen. If ingested, give water or milk to dilute stomach contents. Never give anything by mouth to an unconscious person. Get medical attention immediately for ingestion or breathing problems or if skin contact is extensive.

In case of fire, use water, alcohol resistant foam, dry chemical, or CO2.

If spilled, wear protective clothing, remove ignition sources, prevent sparks, and ventilate area. Absorb with inert material, collect, and place in a chemical waste container.

Keep sealed in original container. Avoid freezing and direct sunlight. Product should be stored > 32 F (0 C). Empty container may contain harmful residue.

The solvent in this product is not photochemically reactive per Rule 102 of the California South Coast Air Quality Management District.
This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of AZ Electronic Materials USA Corp., its business partners and suppliers.