



Substance key: 000000500444
Version 1

REVISION DATE: 05/21/2010
Print Date: 05/21/2010

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 EBR 70/30 (US)

Section 02 - Composition information

Hazardous ingredients:

Chemical Name	CAS-no. (Trade secret no.)	Concentration [%]
1-Methoxy-2-propanol	107-98-2	70.00
1-Methoxy-2-propanol acetate	108-65-6	30.00

Section 03 - Hazardous identification

Emergency overview: OSHA and DOT flammable liquid., Clear, colorless liquid with a strong characteristic odor., Partially dissolves in water., Irritating on contact or inhalation., May produce systemic or organ effects with repeated or excessive exposure.

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.



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1-Methoxy-2-propanol (107-98-2)

1-Methoxy-2-propanol, PGME, produces skin and eye irritation. It is readily absorbed through intact skin. Repeated or excessive exposure can produce lung, liver, kidney, developmental, and central nervous system effects including dizziness, nausea, and anesthesia.

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.

Known effects on other illnesses: Preexisting skin, eye, and respiratory conditions may be aggravated.

Listed carcinogen: IARC: NO NTP: NO OSHA: NO

HMIS:

Health: 2 Flammability: 3 Reactivity: 0 Personal protection: X

NFPA:

Health: 2 Flammability: 3 Reactivity: 0 Special notice: NONE

Section 04 - First aid measures

After inhalation: Remove victim to fresh air.
Administer oxygen if breathing is difficult.
Consult physician if irritation or other symptoms occur.

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

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.
Do not induce vomiting.
Consult physician.

Section 05 - Fire fighting measures

Flash point: 90 °F
Method: closed cup

Lower explosion limit: 1.7 %(V)



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Upper explosion limit: approx. 12.4 %(V)
Ignition temperature: > 270 °C
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: Thermal decomposition may generate carbon dioxide and carbon monoxide.
Unusual fire and explosion hazards: 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:

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.
Keep away from heat, sparks, and flame.

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 and protected from heat and light.
May liberate flammable solvent vapors.

Section 08 - Exposure Control / personal protection

Occupational exposure limits:

Components	CAS number	Regulatory list	Type of value	Value 1	Value 2
1-Methoxy-2-propanol acetate	108-65-6	ZUS_AIHAS	Time Weighted Average (TWA)	50 ppm	



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1-Methoxy-2-propanol	107-98-2	ZUS_ACGIH	TLV-TWA: Threshold Limit Value - Time weighted average Exposure Level	100 ppm	369 mg/m3
		ZUS_ACGIH	TLV-STEL: Threshold Limit Value - Short Time Exposure Level	150 ppm	553 mg/m3
		ZUS_OSHAPO	PEL: Permissible Exposure Level	100 ppm	360 mg/m3
		ZUS_OSHAPO	Short Term Exposure Limit (STEL)	150 ppm	540 mg/m3

Respiratory protection: If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection: Chemical 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.

Density: 0.9326 g/cm3
20 °C

Boiling point: 124 °C
1,013 hPa
Method: DIN 51751



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Evaporation number: Reference substance: n-butyl acetate
app. 0.6
Method: Calculated.

Vapor pressure: approx. 10.5 Torr
Method: calculated

Viscosity, kinematic: approx. 1.43 mm²/s

Loss on drying: 100 %

Section 10 - Stability and reactivity

Hazardous reactions: Stable.

Hazardous polymerization: Will not occur.

Conditions to avoid: Avoid contact with oxidizing agents. Keep away from heat, sparks, and open flame.

Section 11 - Toxicological information

Acute oral toxicity: Based on data from components this material is considered harmful (rat acute oral LD50 between 500 and 5000mg/kg).

1-Methoxy-2-propanol (107-98-2)
Acute oral toxicity: LD50 rat
5,000 mg/kg

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

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

1-Methoxy-2-propanol (107-98-2)
Acute inhalation toxicity LC50 rat
10000 ppm

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



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1-Methoxy-2-propanol (107-98-2)
Acute dermal toxicity: LD50 rabbit
13,000 mg/kg

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

Section 12 - Ecological information

Further ecological information: Ecological data are not available

1-Methoxy-2-propanol (107-98-2)
Fish toxicity: (Fathead minnow)
> 999 mg/l

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

1-Methoxy-2-propanol (107-98-2)
Toxicity of aquatic invertebrates: (Daphnia magna)
> 1,000 mg/l

1-Methoxy-2-propanol acetate (108-65-6)
Toxicity of aquatic invertebrates: (Daphnia magna)
400 mg/l

Section 13 - Disposal considerations

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

Uncleaned packaging: Packaging that cannot be cleaned should be disposed of as product waste

RCRA hazardous waste: RCRA number: D001

Section 14 - Transport information

Land transport



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▪ **DOT:**
UN-No: 1993
Proper technical name: FLAMMABLE LIQUID, N.O.S. (1-Methoxy-2-propanol, 1-Methoxy-2-propanol acetate)
Class: 3
Packaging group: III
Labels: 3

Sea transport

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

Air transport

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

Section 15 - Regulatory information

TSCA Status: All components of this product are 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): 930 g/l
Method: calculated



Section 16 - Other information

Label information

WARNING!

FLAMMABLE 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, lung, liver, kidney, developmental and central nervous system effects.

Keep away from heat, sparks or 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.
