

MATERIAL SAFETY DATA SHEET
AZ® EBR Solvent



Substance key: 000000500156
Version 1

REVISION DATE: 01/07/2010
Print Date: 02/03/2010

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 Solvent**

Material No.: 000000010064723164

Section 02 - Composition information

Hazardous ingredients:

Chemical Name	CAS-no. (Trade secret no.)	Concentration [%]
1-Methoxy-2-propanol acetate	108-65-6	100.00

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:

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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.

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: 2 Reactivity: 0 Personal protection: X

NFPA:

Health: 2 Flammability: 2 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: 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.
Do not induce vomiting.
Consult physician.

Section 05 - Fire fighting measures

Flash point: 116 °F



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	Method: closed cup
Lower explosion limit:	1.5 %(V)
Upper explosion limit:	7 %(V)
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:	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.
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Section 07 - Handling and Storage

Advice on safe handling:

Keep away from heat and flame.
Avoid breathing vapors and 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.

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.



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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	

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: 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.
Local ventilation recommended - mechanical ventilation may be used.

Section 09 - Physical and chemical properties

Form: Liquid

Color: Clear, colorless

Odor: Strong, characteristic odor.

pH value: Not applicable

Solubility in water: PGMEA 16%

Density: approx. 0.97 g/cm³
20 °C

Boiling point: approx. 140 °C

Evaporation number: Reference substance: n-butyl acetate
app.
0.33 (PGMEA)

Vapor pressure: 3.7 Torr



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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. 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)

Further information: Irritates mucous membranes

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 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



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1-Methoxy-2-propanol acetate (108-65-6)
Toxicity of aquatic (Daphnia magna)
invertebrates: 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
Yes -- If it becomes a waste as sold.

Section 14 - Transport information

Land transport

- DOT:
Not restricted

Sea transport

- IMDG:
UN-No: 3272
Proper technical name: ESTERS, N.O.S. (2-Methoxy-1-methylethyl acetate)
Class: 3
Packaging group: III
Marine pollutant:
EmS: F-E, S-D
MFAG:
Labels: 3

Air transport

- ICAO/IATA-DGR:
UN/ID No.: UN 3272
Proper technical name: Esters, n.o.s. (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.
SARA 313 information:	This product is not subject to SARA Title III Section 313 reporting requirements under 40 CFR 372.
Clean water act:	This product is not a Clean Water Act priority pollutant.
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, liver, kidney, 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.

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Keep sealed in original container. Protect from heat and light. 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.
