

MATERIAL SAFETY DATA SHEET
AZ(R) BARLI COATING (0.25 MICRON GRADE)Substance key: BBG70B4
Version 1REVISION DATE: 11/15/2005
Print Date: 03/08/2006**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(R) BARLI COATING (0.25)**Section 02 - Composition information****Hazardous ingredients:**

Chemical Name	CAS-no. (Trade secret no.)	Concentration [%]
Cyclohexanone	108-94-1	85.00 - 95.00
N-(2,4-Dinitrophenyl)-1,4-benzenediamine	6373-73-5	1.00

Non-hazardous ingredients:

Chemical Name	CAS-no. (Trade secret no.)	Concentration [%]
Vinyl methyl ether maleimide	67829000004-5060P	5.00 - 10.00

Section 03 - Hazardous identification**Emergency overview:**

OSHA combustible liquid; DOT flammable liquid., May produce systemic or organ effects with repeated or excessive exposure., Clear, yellow liquid., Strong characteristic odor., Partially dissolves in water leaving 2 layers., Irritating on contact or inhalation.

Expected route of entry**After contact with skin:** yes**After ingestion:** no**After inhalation:** yes

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After contact with eyes: Contact with liquid and vapors.

Skin absorption: yes

Health effects of exposure:

Component information:
Cyclohexanone (108-94-1)

Cyclohexanone is an irritant to eyes, skin, mucous membranes, and respiratory tract. May cause central nervous system depression, tremors, gastric effects, and decreased heart rate. Inhalation may cause labored breathing. Repeated or prolonged exposure to high concentrations may cause kidney and liver damage. Cyclohexanone can be absorbed through intact skin.

Aromatic diamine compound (6373-73-5)

Aromatic diamine compound may cause an allergic skin reaction.

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.
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.

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Section 05 - Fire fighting measures

Flash point:	115 °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:	Thermal decomposition may generate carbon dioxide, carbon monoxide, and oxides of nitrogen.
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
Cyclohexanone	108-94-1	ZUS_OSHAP1	Time Weighted Average (TWA)	50 ppm	200 mg/m3
		ZUS_ACGIH		20 ppm	
		ZUS_ACGIH	Time Weighted Average (TWA)	50 ppm	
			Short Term Exposure Limit (STEL)		

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, yellow

Odor: Strong, characteristic odor.

Solubility in water: Forms two layers.

Density: 0.971 g/cm3

Starts to boil: 155 °C

Evaporation number: Reference substance: diethyl ether
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Vapor pressure: 3.65 Torr

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Loss on drying: 91 %

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

Cyclohexanone (108-94-1)
Acute oral toxicity: LD50 rat
1,535 mg/kg

Cyclohexanone (108-94-1)
Acute oral toxicity: LD50 rat
1,800 mg/kg

Cyclohexanone (108-94-1)
Acute Inhalation toxicity LC50 rat
10.5 mg/l
Exposure time: 4 h

Cyclohexanone (108-94-1)
Acute dermal toxicity: LD50 rabbit
950 mg/kg

Cyclohexanone (108-94-1)
Skin irritation: mild skin irritant.

Cyclohexanone (108-94-1)
Eye irritation: Severe irritant

Section 12 - Ecological information

Cyclohexanone (108-94-1)
Fish toxicity: (Fathead minnow)
527-732 mg/l
Exposure time: 96 h

Cyclohexanone (108-94-1)
Toxicity of aquatic EC50 (Daphnia magna)

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invertebrates: 800 mg/l

Section 13 - Disposal considerations

Product: Consult local, state, and federal regulations.
For disposal, this material is a flammable hazardous waste under RCRA.
Cyclohexanone is listed as a hazardous substance, as defined in the Comprehensive Environmental Response, Compensation, and Liability Act of 1980.

Section 14 - Transport information

Land transport

- **DOT:**
Not restricted

Sea transport

▪ **IMDG:**
UN-No: 1915
Proper technical name: CYCLOHEXANONE, SOLUTION
Class: 3
Packaging group: III
Marine pollutant:
EmS: F-E, S-D
MFAG:
Labels: 3

Air transport

▪ **ICAO/IATA-DGR:**
UN/ID No.: UN 1915
Proper technical name: CYCLOHEXANONE, SOLUTION
Class: 3
Packaging group: III
Labels: 3

Section 15 - Regulatory information

TSCA Status: All components of this product are listed on the TSCA Inventory.

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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): 900 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. **WARNING! MAY CAUSE ALLERGIC SKIN REACTIONS.**

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. Store between 41 and 59 F (5 and 15 C). Exceeding this range plus or minus 18 F (10 C) for one week does not adversely affect the properties. 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.

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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.
