AZ 9260 PHOTORESIST (520CPS)

(US)



Substance key: SXR109902 REVISION DATE: 03/03/2010 Version Print Date: 03/03/2010

Section 01 - Product Information

Identification of the AZ Electronic Materials USA Corp.

company: 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 9260 PHOTORESIST (520CPS) (US)

Section 02 - Composition information

Hazardous ingredients:

Chemical Name	CAS-no. (Trade	Concentration [%]	
	secret no.)		
1-Methoxy-2-propanol acetate	108-65-6	55.00 - 60.00	
Diazonaphthoquinonesulfonic esters	52125-43-6	1.00 - 5.00	

Non-hazardous ingredients:

Chemical Name	CAS-no. (Trade	Concentration [%]	
	secret no.)		
Cresol novolak resin	67829000004-	35.00 - 40.00	
	5653P		

Section 03 - Hazardous identification

Emergency overview: OSHA combustible liquid; DOT flammable liquid., Amber-red

liquid with characteristic odor., Irritating on contact or inhalation., Partially dissolves in water leaving a floating

viscous mass.

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:

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Component information:

Contact with skin and eyes can cause irritation. Prolonged or repeated exposure to skin causes defatting and dermatitis. Material is irritating to mucous membranes and upper respiratory tract. Inhalation of high concentrations may cause rapid breathing, fatigue, headache, dizziness and other CNS effects.

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.

Diazonaphthoquinonesulfonic esters (167933-51-9)

Diazonaphthoquinone esters are self-reactive substances which may cause skin, eye and respiratory tract irritation.

Known effects on other Preexisting skin, eye, and respiratory conditions may be

illnesses: 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.

Apply artificial respiration if victim is not breathing. 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: Immediately flush eyes with running water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Seek

prompt medical attention if redness or irritation occurs.

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.

Advice to doctor /

Treatment:

Administer oxygen if there is difficulty in breathing.

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Section 05 - Fire fighting measures

104 °F Flash point:

Method: closed cup

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Suitable extinguishing

media:

procedure:

Carbon dioxide, water, alcohol resistant foam, dry chemical.

Special fire fighting

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 and sulfur.

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:

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 and protected from heat and light. Pressure may build up slowly in closed containers due to gradual decomposition. This is accelerated by heat and light. 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.

Other protective Do not inhale vapours

> equipment: Avoid contact with eyes and skin

> > Observe the usual precautions for handling chemicals.

Additional advice on Use local exhaust ventilation.

system design: Local ventilation recommended - mechanical ventilation may

be used.

IDLH: Listed: no

Section 09 - Physical and chemical properties

Form: Liquid

Color: Clear, amber-red

Odor: Strong, characteristic odor.

pH value: Not applicable

Solubility in water: The solvent is water soluble but the product forms two layers.

> Density: 1.07 g/cm3

> > 20 °C

Starts to boil: from 134 °C

Evaporation number: 0.33 (PGMEA)

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Vapor pressure: 2.2 Torr

Method: calculated

Partition coefficient (n-

not reasonable

octanol/water):

Viscosity, dynamic:

not determined

Loss on drying: 54 %

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: Based on data from components this material is considered,

not harmful (rat acute oral LD50 > 5000 mg/kg).

Acute inhalation toxicity

Based on data from components, this material is considered, not harmful (LC50 greater than 10,000 ppm or 200 mg/L), Based on component data, material is considered irritating to

the respiratory tract.

Further information: No toxicological testing was carried out on the preparation.

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

Diazonaphthoquinonesulfonic esters (167933-51-9)

Acute oral toxicity: LD50 rat

> 5,000 mg/kg

By analogy with a similar product.

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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

Biodegradability: No information.

Fish toxicity: Based on data from components, this material is classified as:,

Not Harmful (LC50 > 100 mg/L).

Toxicity of aquatic Based on data from components, this material is classified as:,

invertebrates: Not Harmful (EC50 greater than 100 mg/L).

Further ecological

information:

No ecological testing was carried out on the preparation

1-Methoxy-2-propanol acetate (108-65-6)

Fish toxicity: (Fathead minnow)

161 mg/l

Diazonaphthoquinonesulfonic esters (167933-51-9)

Fish toxicity: LC50

20-50 mg/l

Exposure time: 96 h

By analogy with a similar product.

1-Methoxy-2-propanol acetate (108-65-6)

Toxicity of aquatic (Daphnia magna)

invertebrates: 400 mg/l

Diazonaphthoquinonesulfonic esters (167933-51-9)

Further ecological Apart from the information given in this Safety Data Sheet on

information: environmental effects, there are no additional data on mobility,

persistence, degradability and bioaccumulation available.

Section 13 - Disposal considerations

Product: Consult local, state, and federal regulations.

For disposal, this material is a flammable hazardous waste

under RCRA.

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

product waste

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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: 1993

Proper technical name: FLAMMABLE LIQUID, N.O.S. (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. (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

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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 Content VOC (g/l): 621 g/l

compounds: Method: calculated

Other Regulatory Remarks:

Information: This product is subject to the Export and Customs Control

Regulations of the United States and is not to be exported or transferred without priornotification and approval by AZ Electronic Materials USA Corp and obtaining proper U.S.A.

and local government authorizations.

ECCN 3C992

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.

Keep sealed in original container. Product must be kept refrigerated until use. Temperature range for refrigeration is 30 to 55 F (- 1 to 13 C). Allow product to reach ambient temperature prior to use. Empty container may contain harmful residue.

MATERIAL SAFETY DATA SHEET AZ 9260 PHOTORESIST (520CPS) (US)



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> 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.