MATERIAL SAFETY DATA SHEET AZ NLOF 5510 PHOTORESIST (US)



Substance key: BBG706X

Version

REVISION DATE: 11/29/2005 Print Date: 11/29/2005

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 NLOF 5510 PHOTORESIST

-(US)

Section 02 - Composition information

Hazardous ingredients:

Chemical Name		CAS-no. (Trade secret no.)	Concentration [%]
1-Methoxy-2-propanol acetate	=	108-65-6	75.00 - 80.00
Phenolic compound	==	67829000004- 5803P	1.00 - 3.00
Anthracene derivative		67829000004 5817P	1.00 - 3.00
Cyclic trifluoromethanesulfonimide		67829000004- 5051P	1.00 - 3.00

Non-hazardous ingredients:

		••	
Chemical Name	Grand V	CAS-no. (Trade	Concentration [%]
		secret no.)	
Polyvinylphenol copolymer		67829000004-	15 00 - 20.00
, , ,		5828P : : ·	

Section 03 - Hazardous identification

Emergency overview: OSHA combustible liquid; DOT flammable liquid, Clear, pale

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

viscous mass. 🚐

Expected route of entry

Skin contact:

yes no

Ingestion:

Inhalation: yes

Contact with liquid and vapors.

Eye contact: Co Skin absorption: ye

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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.

Known effects on other

Preexisting skin, eye, and respiratory conditions may be

illnesses: aggravated

Listed carcinogen:

IARC: NO NTP: NO OSHA: NO 7 ...

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: Remo

Remove victim to fresh air.

Consult physician if irritation occurs

After contact with skin:

Immediately remove contaminated clothing. Flush affected area thoroughly with water. After flushing with water, remove residue with soap and water. If necessary, clean area with a cloth or paper towel wetted with acetone. Assure adequate ventilation. Dispose of cloth/towel in a suitable receptacle. 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.

Consult physician.

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Section 05 - Fire fighting measures

Flash point:

124 °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 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.

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.

Section 08 - Exposure Control / personal protection

Chemical cartridge respirator recommended for exposures Respiratory protection:

exceeding TLV.

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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, c

Clear, colorless to pale yellow

Odor:

Strong, characteristic odor.

Solubility in water:

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

Density:

1.01 g/cm3

Starts to boil:

134 °C

Evaporation number:

Reference substance: n-butyl acetate

app

Vapor pressure:

2.9 Torr

Loss on drying:

79 %

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 - Toxiclogical 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

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the respiratory tract.

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

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.

Section 14 - Transport information

Land transport

DOT:

Not restricted

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Sea transport

IMDG:

UN-No:

1993 ***

Proper technical name:

ELAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-

methylethyl acetate) 3

Class:

Packaging group: Marine pollutant:

EmS:

F-E, S-E

MFAG: Labels:

Ш

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:

Labels:

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Section 15 - Regulatory information

TSCA Status:

One or more components of this product are not listed on the

TSCA Inventory The components, however, are covered by

Low Volume Exemptions

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). 796 g/l

Method: calculated

Section 16 - Other information

Label information

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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. 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.

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.