



# SAFETY DATA SHEET

## AZ 125nXT-7A Photoresist

Substance No.: GHS000502828  
Version 1.2

Revision Date 07/06/2010  
Print Date 11/19/2010

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AZ 125nXT-7A Photoresist  
Substance No. : GHS000502828  
Product Use Description : Intermediate for electronic industry

Company : AZ Electronic Materials USA Corp.  
70 Meister Ave.  
Somerville, NJ 08876

Telephone : 1-908-429-3562  
Telefax : 1-908-429-5982

Emergency telephone : 1-800-424-9300 (CHEMTREC)

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

OSHA Hazards : COMBUSTIBLE LIQUID  
IRRITANT

#### GHS Classification

Signal word : Warning

Hazard category, Hazard class : Flammable liquids, Category 3  
Acute toxicity, Category 4, Oral  
Eye irritation, Category 2B

Hazard statements : H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H320: Causes eye irritation.

Precautionary statements : P210: Keep away from heat/sparks/open flames/hot surfaces. -  
No smoking.  
P233: Keep container tightly closed.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof  
electrical/ventilating/lighting/equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.



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P280: Wear protective gloves/protective clothing/eye protection/face protection.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous ingredients

| Component                    | CAS-No.           | Weight percent |
|------------------------------|-------------------|----------------|
| 1-Methoxy-2-propanol acetate | 108-65-6          | 25 - 35        |
| Modified diacrylate          | NJTSRNSR268       | 10 - 15        |
| Phenone derivative           | 67829000004-5905P | 1 - 5          |
| Triarylphosphine oxide       | 67829000004-5975P | 1 - 3          |

### Non-hazardous ingredients

| Component               | CAS-No.           | Weight percent |
|-------------------------|-------------------|----------------|
| Modified phenolic resin | 67829000004-6161P | 25 - 30        |
| Methacrylate Monomer    | 67829000004-6162P | 15 - 20        |
| Modified phenolic resin | 67829000004-6238P | 1 - 5          |

## SECTION 4. FIRST AID MEASURES

### First aid procedures

- Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
- Skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
- Eye contact : Remove contact lenses. Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- Ingestion : Keep respiratory tract clear. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.



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### SECTION 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point : app. 106 °F (41 °C)

#### Fire fighting

Suitable extinguishing media : Carbon dioxide, water, alcohol resistant foam, dry chemical.

Further information : Use self-contained breathing apparatus and full protective clothing.  
Use water spray to cool drums in fire area.

#### Protective equipment and precautions for firefighters

Specific hazards during fire fighting : Thermal decomposition may generate carbon dioxide and carbon monoxide.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : Do not allow to enter drains or waterways  
If the product gets into drains, inform the relevant authorities immediately.

Methods for containment /  
Methods for cleaning up : 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 7. HANDLING AND STORAGE

#### Handling

Handling : Avoid breathing vapors and contact with skin, eyes, and clothing.  
For personal protection see section 8.  
Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion : Keep away from sources of ignition  
Take precautions against accumulation of electrostatic charge

#### Storage

Further information on : Keep container tightly closed in a dry and well-ventilated



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storage conditions place.  
May liberate combustible solvent vapors.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

#### Components with workplace control parameters

| Components                   | CAS-No.         | Control parameters | Basis   |
|------------------------------|-----------------|--------------------|---------|
| 1-Methoxy-2-propanol acetate | 108-65-6        | TWA: 50 ppm        | US WEEL |
| Modified diacrylate          | NJTSRNSR2<br>68 | TWA: 1 mg/m3       |         |

#### Engineering measures

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Eye protection : Safety eyewear to protect against splashes.

Hand protection : Solvent-resistant gloves

Skin and body protection : Clothing suitable to prevent skin contact.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.  
Respirator with filter for organic vapour  
Use NIOSH approved respiratory protection.

Hygiene measures : Observe the usual precautions when handling chemicals.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form : Liquid  
Color : Clear, colorless to pale yellow  
Odor : characteristic

#### Safety data

Flash point : app. 106 °F (41 °C)



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Water solubility : The solvent is partially water soluble but the product forms two layers.

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#### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid contact with oxidizing agents.  
Avoid contact with strong acids.  
Avoid contact with alkaline materials.

Hazardous decomposition products : Thermal decomposition may generate carbon dioxide and carbon monoxide.

Hazardous reactions : Hazardous polymerisation does not occur.  
Note: Stable under normal conditions.

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Data for AZ 125nXT-7A Photoresist

Acute oral toxicity : Acute toxicity estimate: 1,679 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 8,395 mg/kg  
Method: Calculation method

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

##### Data for 1-Methoxy-2-propanol acetate (108-65-6)

Acute oral toxicity : LD50: 8,532 mg/kg  
Species: rat

Acute inhalation toxicity : LC50: > 23.8 mg/l  
Exposure time: 6 h  
Species: rat

Acute dermal toxicity : LD50: > 5,000 mg/kg  
Species: rabbit



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Skin irritation : Result: non-irritant

Eye irritation : Result: Mild eye irritation

Sensitisation : Species: Guinea pig  
Result: non-sensitizing

### Data for Modified diacrylate (NJTSRNSR268)

Skin irritation : Result: Severe skin irritation

Eye irritation : Result: corrosive

Sensitisation : May cause sensitization of susceptible persons.

Repeated dose toxicity : Species: mouse  
Application Route: Dermal  
Exposure time: 18 month ()  
Weak carcinogenic response

### Data for Phenone derivative (67829000004-5905P)

Acute oral toxicity : LD50: > 1,800 mg/kg  
Species: rat

Acute dermal toxicity : LD50: > 2,000 mg/kg  
Species: rat

Skin irritation : Species: rabbit  
Result: No skin irritation  
Method: OECD Test Guideline 404

Eye irritation : Species: rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

Sensitisation : Maximisation Test  
Species: guinea pig



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Result: Did not cause sensitization on laboratory animals.  
Method: OECD Test Guideline 406

### Data for Triarylphosphine oxide (67829000004-5975P)

|                        |   |
|------------------------|---|
| Acute oral toxicity    | : LD50 Oral: > 2,000 mg/kg<br>Species: rat  |
| Acute dermal toxicity  | : LD50 Dermal: > 2,000 mg/kg<br>Species: rat  |
| Skin irritation        | : Species: rabbit<br>Result: No skin irritation   |
| Eye irritation         | : Species: rabbit<br>Result: No eye irritation  |
| Sensitisation          | : Species: guinea pig<br>Classification: May cause sensitization by skin contact.<br>Result: sensitizing                    |
| Repeated dose toxicity | : Species: rat<br>Application Route: Oral<br>Dose: 15, 150, 1000 mg/kg/day<br>Exposure time: 28 day ()<br>NOEL: 1,000 mg/kg |

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## 12. ECOLOGICAL INFORMATION

### Data for AZ 125nXT-7A Photoresist

Additional ecological information : Preparation has not been tested

### Data for 1-Methoxy-2-propanol acetate (108-65-6)

#### Ecotoxicity effects

Toxicity to fish : LC50: 100 - 180 mg/l Exposure time: 96 h  
Species: Oncorhynchus mykiss



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: LC50: 161 mg/l Exposure time: 96 h

Species: Fish general (Pisces)

: NOEC: 100 mg/l Exposure time: 96 h

Species: Fish general (Pisces)

Toxicity to daphnia and other aquatic invertebrates. : EC50: > 500 mg/l  
Species: Daphnia magna

Toxicity to bacteria : EC20: 1,000 mg/l  
Exposure time: 30 min  
Species: activated sludge

#### Elimination information (persistence and degradability)

Biodegradability : Method: OECD 302 B  
: The product is biodegradable.

#### Data for Phenone derivative (67829000004-5905P)

##### Ecotoxicity effects

Toxicity to fish : LC50: 9 mg/l  
Species: Brachydanio rerio  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates. : EC50: 15.3 mg/l  
Species: Daphnia magna  
Method: OECD Test Guideline 202

Toxicity to algae : 1.7 mg/l  
Species: Scenedesmus subspicatus

Toxicity to bacteria : IC50: > 100 mg/l  
Species: activated sludge





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### Elimination information (persistence and degradability)

Biodegradability : aerobic  
: Method: OECD 301 B  
Not biodegradable according to OECD 301 (not readily biodegradable)

### Data for Triarylphosphine oxide (67829000004-5975P)

#### Ecotoxicity effects

Toxicity to fish : LC50: > 0.09 mg/l Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Not toxic at the maximum solubility in test medium.

Toxicity to daphnia and other aquatic invertebrates. : EC50: 1.175 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Not toxic at the maximum solubility in test medium.

Toxicity to algae : EC50: > 0.26 mg/l  
Exposure time: 72 h  
Species: Scenedesmus subspicatus  
Not toxic at the maximum solubility in test medium.

Toxicity to bacteria : EC50: > 100 mg/l  
Species: activated sludge of a predominantly domestic sewage

### Elimination information (persistence and degradability)

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): < 5

Biodegradability : Method: Modified Sturm Test  
Not Biodegradable



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### SECTION 13. DISPOSAL CONSIDERATIONS

- Further information : Dispose of as hazardous waste in compliance with local and national regulations.  
For disposal, this material is a flammable hazardous waste under RCRA.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
- RCRA hazardous waste : RCRA number: D001  
Yes -- If it becomes a waste as sold.

### SECTION 14. TRANSPORT INFORMATION

DOT  
Not restricted

#### IATA

- UN-Number : 1993  
Description of the goods : Flammable liquid, n.o.s.  
(2-Methoxy-1-methylethyl acetate)
- Class : 3  
Packing group : III  
Labels : 3  
Packing instruction (cargo aircraft) : 310  
Packing instruction (passenger aircraft) : 309  
Packing instruction (passenger aircraft) : Y309  
Environmentally hazardous : no

#### IMDG

- UN-Number : 1993  
Description of the goods : FLAMMABLE LIQUID, N.O.S.  
(2-Methoxy-1-methylethyl acetate)
- Class : 3  
Packing group : III  
Labels : 3  
EmS Number 1 : F-E  
EmS Number 2 : S-E
- Marine pollutant : no  
Environmentally hazardous : no



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## SECTION 15. REGULATORY INFORMATION

### Notification status

- TSCA** : One or more components of this product are not listed on the TSCA Inventory. The components, however, are covered by Low Volume Exemptions (LVEs). These LVE-based products may only be used in conventional photolithographic processes consistent with their design. For any applications outside of this intended purpose, contact the vendor first.
- DSL** : This product contains one or several components that are not on the Canadian DSL nor NDSL lists.

### Carcinogenicity

- IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- ACGIH** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

### EPCRA - Emergency Planning and Community Right-to-Know Act

- SARA 302 Reportable Quantity** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313:** SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

- Ozone-Depletion Potential** : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).



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### US State Regulations

|   |   |   |                   |
|---|---|---|-------------------|
| <b>Massachusetts Right To Know Components</b> | : | No components are subject to the Massachusetts Right to Know Act. |                   |
| <b>Pennsylvania Right To Know Components</b>  | : | Phenone derivative  | 67829000004-5905P |
|   |   | 1-Methoxy-2-propanol acetate                                      | 108-65-6          |
|   |   | Modified phenolic resin   | 67829000004-6238P |
|   |   | Methacrylate Monomer  | 67829000004-6162P |
|   |   | Modified phenolic resin   | 67829000004-6161P |
|   |   | Modified diacrylate   | NJTSRNSR268       |
|   |   | Triarylphosphine oxide  | 67829000004-5975P |
| <b>New Jersey Right To Know Components</b>    | : | Modified diacrylate   | NJTSRNSR268       |
|   |   | Modified phenolic resin   | 67829000004-6161P |
|   |   | Methacrylate Monomer  | 67829000004-6162P |
|   |   | Modified phenolic resin   | 67829000004-6238P |
|   |   | 1-Methoxy-2-propanol acetate                                      | 108-65-6          |

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### SECTION 16. OTHER INFORMATION

#### Further information

**HMIS Classification** : Health hazard: 2  
Flammability: 2  
Reactivity: 0  
PPE:X

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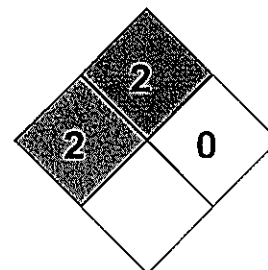
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**NFPA Classification** : Health hazard: 2  
Fire Hazard: 2  
Reactivity Hazard: 0  
Special Hazards: NONE



### GHS-Labeling

Symbol(s) :



Signal word : Warning

Hazard statements : Flammable liquid and vapour.  
Harmful if swallowed.  
Causes eye irritation.

Precautionary statements : **Prevention:**  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
**Response:**  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Rinse mouth.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
**Storage:**  
Store in a well-ventilated place. Keep cool.



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#### **Disposal:**

Dispose of contents/container to an approved waste disposal plant.

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.