



## AZ 9260 Photoresist (520 CPS)

Substance No.: SXR109902  
Version 32

Revision Date 02.01.2013

Print Date 10.01.2013

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : AZ 9260 Photoresist (520 CPS)

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Electronic industry  
Intermediate for electronic industry

#### 1.3 Details of the supplier of the safety data sheet

Company : AZ Electronic Materials (Germany) GmbH  
Rheingaustrasse 190-196 ,  
65203 Wiesbaden Germany

Telephone : +49 (0)611 962 8563

E-mail address : [PSE@az-em.com](mailto:PSE@az-em.com)

Responsible/issuing person : Product Safety:  
+49(0)6126-229248 or +49(0)6126-227340

#### 1.4 Emergency telephone number

Emergency telephone number : +49 69 305 6418

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

**GHS Classification**

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

**Classification (67/548/EEC, 1999/45/EC)**

Flammable

R10: Flammable.

#### 2.2 Label elements

**GHS-Labeling**

Symbol(s) :



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Signal word	:	Warning	
Hazard statements	:	H226	Flammable liquid and vapour.
Precautionary statements	:	<b>Prevention:</b> P210 P233 <b>Response:</b> P303 + P361 + P353 P370 + P378 <b>Storage:</b> P403 + P235 <b>Disposal:</b> P501	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Chemical characterization

Preparation of polymer resins and diazo compounds in organic solvents (halogenfree).

#### Hazardous components

##### ar'-Isopropyl-1,1'-biphenyl-4-yl-3-diazo-3,4-dihydro-4- oxonaphthalinsulfonat

CAS-No. : 52125-43-6  
EC-No. : 257-675-1  
Classification(67/548/EEC) : F; R11

Classification : Self-heat. 1; H251  
(REGULATION (EC) No 1272/2008)  
Concentration [%] : < 10

##### 2-methoxypropyl acetate

CAS-No. : 70657-70-4  
EC-No. : 274-724-2

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Classification(67/548/EEC) : R10  
Repr.Cat.2; R61  
Xi; R37

Classification : Flam. Liq. 3; H226  
(REGULATION (EC) No Repr. 1B; H360D  
1272/2008) STOT SE 3; H335

Concentration [%] : < 0,3

WEL substance :

### 2-methoxy-1-methylethyl acetate

CAS-No. : 108-65-6  
EC-No. : 203-603-9  
Registration number : 01-2119475791-29-xxxx  
Classification(67/548/EEC) : R10

Classification : Flam. Liq. 3; H226  
(REGULATION (EC) No  
1272/2008)

Concentration [%] : >= 50 - <= 100

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.  
If symptoms persist, call a physician.  
Show this safety data sheet to the doctor in attendance.

Inhalation : If breathing is difficult, remove victim to fresh air and keep at  
rest in a position comfortable for breathing.

Skin contact : Wash off immediately with plenty of water.  
If skin irritation persists, call a physician.

Eye contact : Immediately flush eye(s) with plenty of water.  
Protect unharmed eye.  
Remove contact lenses.

Ingestion : If symptoms persist, call a physician.  
Show this safety data sheet to the doctor in attendance.

### 4.3 Indication of any immediate medical attention and special treatment needed

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Treatment : Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Nitrous gases (NO<sub>x</sub>)  
Sulphur oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Use self-contained breathing apparatus  
Well closed full protective clothing (coat and pants) including helmet.

Further information : Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : See: Exposure controls and personal protection.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow entry to drains, water courses or soil

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up with liquid binding materials and if necessary fill in containers capable of being locked.  
Containers in which spilt substance has been collected must be adequately labelled  
Dispose of absorbed material in accordance with the regulations.  
Clean contaminated floors and objects thoroughly, observing environmental regulations

#### 6.4 Reference to other sections

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Additional advice : Information regarding Safe handling, see chapter 7.  
Information regarding personal protective measures see, chapter 8.  
Information regarding Waste Disposal, see chapter 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion : Keep away from sources of ignition

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container

Further information on storage conditions : Keep container tightly closed and dry in a cool, well-ventilated place.  
Protect from light.

Advice on common storage : Do not store or transport together with foodstuffs

Storage period : < 12 Months

Other data : Store between 30°F to 55 °F (-1°C to 13 °C).

#### 7.3 Specific end use(s)

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Components with workplace control parameters

Components	:	<b>2-methoxy-1-methylethyl acetate</b>
CAS-No.	:	108-65-6
Value	:	TWA
Control parameters	:	50 ppm 275 mg/m3
Update	:	2000-06-16
Basis	:	2000/39/EC
Further information	:	skin: Identifies the possibility of significant uptake through the skin Indicative

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Value	:	STEL
Control parameters	:	100 ppm 550 mg/m <sup>3</sup>
Update	:	2000-06-16
Basis	:	2000/39/EC
Further information	:	skin: Identifies the possibility of significant uptake through the skinIndicative

### DNEL

2-methoxy-1-methylethyl  
acetate

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Chronic effects  
Value: 54,8 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Chronic effects  
Value: 33 mg/m<sup>3</sup>

End Use: Workers  
Exposure routes: Ingestion  
Potential health effects: Chronic effects  
1,67 mg/kg

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Chronic effects  
153,5 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Chronic effects  
275 mg/kg

### PNEC

2-methoxy-1-methylethyl  
acetate

: Fresh water  
Value: 0,635 mg/l

Marine water  
Value: 0,0635 mg/l

Fresh water sediment  
Value: 3,29 mg/kg

Marine sediment  
Value: 0,329 mg/kg

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Soil  
Value: 0,29 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

- Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
- Hand protection : Break through time: > 10 min  
Glove thickness: > 0,4 mm  
For short-term exposure (splash protection):  
Nitrile rubber gloves.  
Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.
- Eye protection : Tightly fitting safety goggles
- Skin and body protection : protective clothing
- Hygiene measures : At work do not eat, drink, smoke or take drugs.  
Keep away from foodstuffs and beverages.  
Wash hands before breaks and after work.  
Use barrier skin cream.
- Protective measures : Do not inhale vapours  
Avoid contact with eyes and skin  
Observe the usual precautions for handling chemicals.

#### Environmental exposure controls

- General advice : Do not allow entry to drains, water courses or soil

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Form : liquid
- Colour : yellow to red
- Odour : ether-like

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### Safety data

Flash point	: 40 °C
Ignition temperature	: not determined
Thermal decomposition	: No decomposition if used as prescribed.
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: not determined
Oxidizing properties	: not determined
Auto-ignition temperature	: The substance or mixture is not classified as self heating.
Burning number	: not determined
pH	: , Not applicable
Freezing point	: not determined
Starts to boil	: 134 °C
Sublimation point	: not determined
Vapour pressure	: approx. 3 hPa
Density	: 1,07 g/cm <sup>3</sup> , 20 °C
Water solubility	: not determined
Partition coefficient: n-octanol/water	: not reasonable
Solubility in other solvents	: not determined
Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Corrosive in contact with metals	: not determined
Evaporation rate	: not determined

### 9.2 Other information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials



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Materials to avoid : Oxidizing agents  
Strong acids  
Bases

### 10.6 Hazardous decomposition products

Hazardous decomposition products : when handled and stored appropriately no dangerous decomposition products are known

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation : no data available

Serious eye damage/eye irritation : no data available

Respiratory or skin sensitization : no data available

#### Components:

##### **ar'-Isopropyl-1,1'-biphenyl-4-yl-3-diazo-3,4-dihydro-4- oxonaphthalinsulfonat :**

Acute oral toxicity : LD50: > 5.000 mg/kg, rat(female)

Skin corrosion/irritation : rabbit, Result: Mild skin irritation, Classification: No skin irritation

Serious eye damage/eye irritation : rabbit, Result: No eye irritation, Classification: No eye irritation

Germ cell mutagenicity

Genotoxicity in vitro : Ames test, Result: negative

##### **2-methoxy-1-methylethyl acetate :**

Acute oral toxicity : LD50: > 8.532 mg/kg, rat(female)

Acute inhalation toxicity : LC50: > 10,8 mg/l, 6 h, rat,

Acute dermal toxicity : LD50: > 5.000 mg/kg, rabbit

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### SECTION 12: Ecological information

#### 12.1 Toxicity

**Product:**

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to bacteria : no data available

**Components:**

**ar'-Isopropyl-1,1'-biphenyl-4-yl-3-diazo-3,4-dihydro-4- oxonaphthalinsulfonat :**

Toxicity to bacteria : EC50: > 7 mg/l, Bacteria

**2-methoxy-1-methylethyl acetate :**

Toxicity to fish : LC50: 100 mg/l, 96 h, Oryzias latipes (Orange-red killifish), semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50: 373 mg/l, 48 h, Daphnia magna (Water flea)

#### 12.2 Persistence and degradability

**Product:**

Biodegradability : no data available

**Components:**

**ar'-Isopropyl-1,1'-biphenyl-4-yl-3-diazo-3,4-dihydro-4- oxonaphthalinsulfonat :**

Biodegradability : Result: Not readily biodegradable., OECD 301 D

**2-methoxy-1-methylethyl acetate :**

Biodegradability : 99 %, Result: Readily biodegradable., Exposure time: 28 d

#### 12.3 Bioaccumulative potential

**Components:**

**2-methoxy-1-methylethyl acetate :**

Bioaccumulation :

Bioaccumulation is unlikely.

#### 12.4 Mobility in soil

**Components:**

**2-methoxy-1-methylethyl acetate :**

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Distribution among environmental compartments : Koc: 1,7, Highly mobile in soils

### 12.5 Results of PBT and vPvB assessment

#### Components:

#### **2-methoxy-1-methylethyl acetate :**

Assessment : The substance does not fulfill the PBT criteria., The substance does not fulfill the vPvB criteria.

### 12.6 Other adverse effects

#### Components:

#### **ar'-Isopropyl-1,1'-biphenyl-4-yl-3-diazo-3,4-dihydro-4- oxonaphthalinsulfonat :**

Chemical Oxygen Demand (COD) : 1.847 mg/g, weighed sample

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as product waste

## SECTION 14: Transport information

#### **ADR**

UN number : 1993  
Description of the goods : FLAMMABLE LIQUID, N.O.S.  
(2-Methoxy-1-methylethyl acetate)  
Environmentally hazardous : no

#### **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  
Environmentally hazardous : no

#### **IMDG**

UN number : 1993

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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

### RID

UN number : 1993  
Description of the goods : FLAMMABLE LIQUID, N.O.S.  
(2-Methoxy-1-methylethyl acetate)  
Environmentally hazardous : no

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

: Neither banned nor restricted

Candidate List of Substances of Very High Concern for Authorisation

: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

EU. REACH - Annex XIV: List of substances subject to authorisation

: Neither banned nor restricted

### 15.2 Chemical Safety Assessment

## SECTION 16: Other information

### Full text of R-phrases referred to under sections 2 and 3

R10 Flammable.  
R11 Highly flammable.  
R37 Irritating to respiratory system.  
R61 May cause harm to the unborn child.

### Full text of H-Statements referred to under sections 2 and 3.

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H226	Flammable liquid and vapour.
H251	Self-heating; may catch fire.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.

Decimal notation: "Thousands" places are identified with a dot (example: 2.000 mg/kg means "two thousand mg/kg"). Decimal places are identified with a comma (example: 1,35 g/cm<sup>3</sup>)

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