

#### AZ 4562 Photoresist

Substance key: SXR081518 Print Date: 13.03.2007

Version 1 REVISION DATE: 08.12.2005

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Trade name : AZ 4562 Photoresist

Use of the substance/preparation.

Industry sector : : Electronic industry

Type of use: : Intermediate for electronic industry

Identification of the

company:

: AZ Electronic Materials (Germany) GmbH

Industriepark KalleAlbert Rheingaustrasse 190-196

65203 Wiesbaden

Germany

Telefon-Nr.: +49 611 962 8563

**Information about the** : Product Safety:

**substance / preparation:** +49(0)6103-8079450 or +49(0)6126-227340

Emergency telephone

number

: +49 69 305 6418

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Chemical characterization**

A mixture of polymer resins and diazo compounds in halogen free organic solvent.

### **Hazardous components**

Chemical Name	CAS	EINECS /	Hazard	R	Concentration [%]
	number	ELINCS	symbols	phrases	
2-Methoxy-1-methyl ethyl	108-65-6	2036039	Xi	R10 R36	> 50,00
acetate					

### 3. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Flammable. Irritating to eyes.

#### 4. FIRST AID MEASURES

General information : Remove soiled or soaked clothing immediately

If someone exposed to the product feels unwell, contact a

doctor and show this safety data sheet.

Adhere to personal protective measures when giving first aid

After inhalation : Remove the casualty into fresh air and keep him calm.

Call in a physician immediately and show him the Safety Data



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Sheet.

In case of contact with skin wash off immediately with After contact with skin

polyethylene glycol 400, then with plenty of water

If polyethylene glycol is not available, rinse of with plenty of

water.

Rinse immediately with gently running water for 15 minutes, After contact with eyes

maintaining eyelids open. Consult at once an ophthalmologist

or a physician.

After ingestion Do not induce vomiting.

Call in a physician immediately and show him the Safety Data

Let plenty of water be drunk in small gulps.

Advice to doctor

Treatment Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing

media

water spray jet

foam dry powder carbon dioxide

Special hazards from the substance itself, its

combustion products or

from its vapours

: In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO) Nitrous gases (NOx) Sulphur dioxide (SO2)

Special protective

equipment for firefighting

Well closed full protective clothing (coat and pants) including

Use self-contained breathing apparatus

Further information Fire residues and contaminated firefighting water must be

disposed of in accordance with the local regulations.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions See: Exposure controls and personal protection.

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

Methods for cleaning

up/taking 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



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environmental regulations

Additional information : Information regarding Safe handling, see chapter 7.

Information regarding personal protective measures see,

chapter 8.

Information regarding Waste Disposal, see chapter 13.

#### 7. HANDLING AND STORAGE

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

**Storage** 

Requirements for storage

rooms and vessels

Keep only in the original container

Further information for storage conditions

place

Protect from light.

Advice on storage

compatibility

: Do not store or transport together with foodstuffs

: Keep container tightly closed and dry in a cool, well-ventilated

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Additional advice on system design

See chapter7; no measures exeeding the ones mentioned are necessary.

#### General protective measures

Do not inhale vapours

Avoid contact with eyes and skin

Observe the usual precautions for handling chemicals.

### 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.

Respiratory protection : Use respiratory protection in case of insufficient exhaust

ventilation or prolonged exposure

Hand protection : For short-term exposure (splash protection):

Nitrile rubber gloves.

Minimum breakthrough time / gloves : > 10 min



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Minimum thickness / gloves > 0,4 mm

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 glasses

Body protection : protective clothing

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Form : Liquid

Colour : yellow to red

Odour : ester-like

Safety data

pH value : not reasonable

Starts to boil : from 145 °C

Flash point : approx. 42 °C

Method: DIN 51755 (closed cup)

Ignition temperature : Note: not determined

Self-ignition temperature : Note: not determined

Lower explosion limit : Note: not determined

Upper explosion limit : Note: not determined Vapour pressure : approx. 5 mbar

at 20 °C

Density : approx. 1 g/cm3

at 20 °C

Solubility in water : Note: The solvent is partially water soluble but the product

forms two layers.

Partition coefficient (n-

octanol/water)

Note: not reasonable

Viscosity, dynamic : 380 - 500 mPas

at 20 °C

#### 10. STABILITY AND REACTIVITY

Hazardous decomposition : when handled and stored appropriately no dangerous



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products decomposition products are known

Thermal decomposition : Note: No decomposition if used as prescribed.

Hazardous reactions : Incompatible with oxidizing materials.

#### 11. TOXICOLOGICAL INFORMATION

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

The product was classified on the basis of the calculation

procedure of the Dangerous Preparations Directive

(1999/45/EC).

#### 12. ECOLOGICAL INFORMATION

#### Further information on ecology

Further ecological information

: Do not allow to enter soil, waterways or waste water No ecological testing was carried out on the preparation The product was classified on the basis of the calculation procedure of the Dangerous Preparations Directive

(1999/45/EC).

## 13. DISPOSAL CONSIDERATIONS

Product : Product should be 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

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

product waste

### 14. TRANSPORT INFORMATION

ADR:

Substance No.: UN 1993

Description of the goods: FLAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-methylethyl

acetate)

Class: 3
Packaging group: III
classification code: F1
Risk No.: 30
Labels: 3

RID:

Substance No.: UN 1993

Description of the goods: FLAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-methylethyl

acetate)

Class: 3



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Substance No.: UN 1993

Description of the goods: FLAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-methylethyl

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Class: 3
Packaging group: III
classification code: F1

Risk No.:

Labels: 3

IMDG:

UN-No: UN 1993

Proper technical name: FLAMMABLE LIQUID, N.O.S. contains (2-methoxy-1-methylethyl

acetate)

Class: 3
Packaging group: III
Labels: 3

MFAG:

EmS: F-E

S-E

Marine pollutant:

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: III
Labels: 3

#### 15. REGULATORY INFORMATION

### Labelling according to EEC Directive

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

#### Hazardous component(s) to be indicated on label:

• 2-Methoxy-1-methyl ethyl acetate

Hazard symbols : Xi Irritant

R phrases : 10 Flammable.

36 Irritating to eyes.

S phrases : 25 Avoid contact with eyes.



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## **National legislation**

#### 16. OTHER INFORMATION

#### **Further information**

Contains: < 0.5% 2-methoxypropylacetate, CAS no.: 70657-70-4. EC Classification: T, R 10-37-61

Text of the R-phrases which are allocated to the ingredients/components mentioned in section 2 of this Safety Data Sheet.

R10 Flammable. R36 Irritating to eyes.

The data are based on the current state of our knowledge, and are intended to describe the product with regard to the requirements of safety. The data should not be taken to imply any guarantee of a particular or general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use. We do not accept responsibility for any harm caused by the use of this information. In all cases, our general conditions of sale apply.