



AZ 1518 Photoresist 0005

Substance No.: SXR100615
Version 21

Revision Date 04.01.2011

Print Date 21.07.2011

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : AZ 1518 Photoresist 0005

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

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

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



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Symbol(s)	:	
Signal word	:	Warning
Hazard statements	:	H226 Flammable liquid and vapour.
Precautionary statements	:	Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. Storage: P403 + P235 Store in a well-ventilated place. Keep cool.

Labelling according to EC Directives

1999/45/EC

R-phrases(s)	:	R10 Flammable.
S-phrases(s)	:	S16 Keep away from sources of ignition - No smoking. S60 This material and its container must be disposed of as hazardous waste.

Hazardous components which must be listed on the label:

- 108-65-6 2-methoxy-1-methylethyl acetate

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

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Chemical characterization

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

Hazardous components

2-methoxy-1-methylethyl acetate

CAS-No. : 108-65-6
EC-No. : 203-603-9

Classification(67/548/EEC) : R10

Classification : Flam. Liq. 3; H226
(REGULATION (EC) No
1272/2008)
Concentration [%] : > 60

1-Naphthalenesulfonic acid, 6-Diazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-trihydroxyphenyl)methanone

CAS-No. : 68510-93-0
EC-No. : 270-931-7

Classification(67/548/EEC) : F; R11
R52/53

Classification : Self-react. D; H242
(REGULATION (EC) No 2; H315
1272/2008) Aquatic Chronic 3; H412

Concentration [%] : < 10

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.

4. First aid measures

4.1 Description of first aid measures

General advice : 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

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.

- Skin contact : In case of contact with skin wash off immediately with polyethylene glycol 400, then with plenty of water
If polyethylene glycol is not available, rinse of with plenty of water.
- Eye contact : Rinse immediately with gently running water for 15 minutes, maintaining eyelids open. Consult at once an ophthalmologist or a physician.
- Ingestion : Do not induce vomiting.
Call in a physician immediately and show him the Safety Data Sheet.
Let plenty of water be drunk in small gulps.

4.3 Indication of immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media : water spray jet
foam
dry powder
carbon dioxide

5.2 Special hazards arising from the substance or mixture

- Specific hazards during fire fighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Nitrous gases (NOx)
Sulphur dioxide (SO2)

5.3 Advice for firefighters

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



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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

Additional advice : 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

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

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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 glasses

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

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form : Liquid
Colour : yellow to red
Odour : ester-like

Safety data

Flash point : approx. 42 °C
Method: DIN 51755 (closed cup)
Ignition temperature : not determined
Lower explosion limit : not determined

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Upper explosion limit	: not determined
Flammability (solid, gas)	: not determined
Oxidizing properties	: not determined
Autoignition temperature	: not determined
Burning number	: not determined
pH	: Note: not reasonable
Freezing point	: not determined
Starts to boil	: from 145 °C
Sublimation point	: not determined
Vapour pressure	: approx.5 hPa at 20 °C
Density	: 1 g/cm ³ at 20 °C
Water solubility	: Note: The solvent is partially water soluble but the product forms two layers.
Partition coefficient: n-octanol/water	: not determined
Solubility in other solvents	: not determined
Viscosity, dynamic	: approx.35 mPas at 20 °C
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Evaporation rate	: not determined

9.2 Other information



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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 : Incompatible with oxidizing materials.

10.4 Conditions to avoid

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Strong acids
Bases

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity
1-Naphthalenesulfonic acid, : LD50: > 5.000 mg/kg
6-Diazo-5,6-dihydro-5-oxo-, Species: rat
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation

Skin irritation
1-Naphthalenesulfonic acid, : Species: rabbit

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6-Diazo-5,6-dihydro-5-oxo-,
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone
Serious eye damage/eye irritation

Result: Skin irritation

Eye irritation

1-Naphthalenesulfonic acid, : Species: rabbit
6-Diazo-5,6-dihydro-5-oxo-, Result: No eye irritation
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone
Respiratory or skin sensitization

Sensitisation : no data available

Germ cell mutagenicity

1-Naphthalenesulfonic acid, : Ames test
6-Diazo-5,6-dihydro-5-oxo-, Result: negative
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone

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

12.1 Toxicity

Toxicity to fish

1-Naphthalenesulfonic acid, : LC50: 22 - 50 mg/l
6-Diazo-5,6-dihydro-5-oxo-, Exposure time: 96 h
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone Species: Danio rerio (zebra fish)

Toxicity to daphnia and other : no data available
aquatic invertebrates.

Toxicity to bacteria

1-Naphthalenesulfonic acid, : EC50: > 1.000 mg/l
6-Diazo-5,6-dihydro-5-oxo-, Method: OECD 209
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone



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12.2 Persistence and degradability

Biodegradability
1-Naphthalenesulfonic acid, : Result: Not readily biodegradable.
6-Diazo-5,6-dihydro-5-oxo-, Method: OECD 301 D
ester with phenyl(2,3,4-
trihydroxyphenyl)methanone

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

Additional ecological : Do not allow to enter soil, waterways or waste water
information 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

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

14. Transport information

IATA
UN number : 1993
Description of the goods : Flammable liquid, n.o.s.

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(2-Methoxy-1-methylethyl acetate)
Class : 3
Packing group : III
Labels : 3
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

15. Regulatory information

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

15.2 Chemical Safety Assessment

16. Other information

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

R10 Flammable.
R11 Highly flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

H226 Flammable liquid and vapour.
H242 Heating may cause a fire.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.

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/cm³)

Further information

Further information : Contains: < 0.3 % 2-methoxypropylacetate, CAS no.: 70657-70-4. EC Classification : T, R 10-37-61

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