

AZ 4562 Photoresist	0005	
Substance No.: SXR081518 Version 31	Revision Date 07.12.2010	Print Date 22.07.2011
1. Identification of the substa	nce/mixture and of the compa	ny/undertaking
1.1 Product identifier		
Trade name	: AZ 4562 Photoresist	0005
1.2 Relevant identified uses of tl	ne substance or mixture and uses	s advised against
Use of the Substance/Mixture	: Electronic industry Intermediate for electronic indu	
1.3 Details of the supplier of the	safety data sheet	
Company	: AZ Electronic Materials (Germ Rheingaustrasse 190-196 , 65203 Wiesbaden Germany	any) GmbH
Telephone E-mail address	: +49 (0)611 962 8563 : <u>PSE@az-em.com</u>	
Responsible/issuing person	Product Safety: +49(0)6126-229248 or +49(0)6	6126-227340
1.4 Emergency telephone numb	er	
Emergency telephone number	: +49 69 305 6418	
2. Hazards identification		
2.1 Classification of the substan	ce or mixture	
Classification (REGULATIO	N (EC) No 1272/2008)	
GHS Classification		
Flammable liquids, Category	3 H226: Flammable li	iquid and vapour.
Classification (67/548/EEC,	1999/45/EC)	
Flammable	R10: Flammable.	
2.2 Label elements		
GHS-Labelling		
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Symbol(s)	:	(1)	
Signal word	: V	/arning	
Hazard statements	: H	226	Flammable liquid and vapour.
Precautionary statements Labelling according to EC 1999/45/EC	Р Р Р Р Р	370 + P378 torage: 403 + P235	Keep away from heat/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Wear protective gloves/ protective clothing/ eye protection/ face protection. P353 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.
R-phrase(s)	: [R10	Flammable.
\mathbf{O} where $\mathbf{e}(\mathbf{r})$: (S16	Keep away from sources of ignition - No smoking.
S-phrase(s)	;	S60	This material and its container must be disposed of as hazardous waste.
Hazardous components wh	ich mus		disposed of as hazardous waste.
Hazardous components wh • 108-65-6 2-r	ich mus	t be listed on th	disposed of as hazardous waste.
Hazardous components wh • 108-65-6 2-r	ich mus	t be listed on th	disposed of as hazardous waste.
Hazardous components wh • 108-65-6 2-r 2.3 Other hazards	ich mus nethoxy	t be listed on th -1-methylethyl	disposed of as hazardous waste.

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Chemical characterization		
A mixture of polymer resins a	nd diazo compounds in halogen free orga	nic solvent.
'Hazardous components		
2-methoxy-1-methylethyl ac CAS-No. EC-No.	cetate : 108-65-6 : 203-603-9	
Classification(67/548/EEC)	: R10	
Classification (REGULATION (EC) No	: Flam. Liq. 3; H226	
1272/2008) Concentration [%]	: > 50	
	ses mentioned in this Section, see Section ments mentioned in this Section, see Sec	
. First aid measures		
	: Remove soiled or soaked clothing im If someone exposed to the product f	eels unwell, contact a
1 Description of first aid meas	: Remove soiled or soaked clothing im	eels unwell, contact a et.
1 Description of first aid meas	: Remove soiled or soaked clothing im If someone exposed to the product f doctor and show this safety data she	eels unwell, contact a et. ires when giving first aid nd keep him calm.
1 Description of first aid meas General advice	 Remove soiled or soaked clothing im If someone exposed to the product f doctor and show this safety data she Adhere to personal protective measu Remove the casualty into fresh air ar Call in a physician immediately and s 	eels unwell, contact a et. ires when giving first aid nd keep him calm. show him the Safety Data immediately with enty of water
1 Description of first aid meas General advice Inhalation	 Remove soiled or soaked clothing im If someone exposed to the product f doctor and show this safety data she Adhere to personal protective measures Remove the casualty into fresh air ar Call in a physician immediately and s Sheet. In case of contact with skin wash off polyethylene glycol 400, then with play If polyethylene glycol is not available 	eels unwell, contact a et. irres when giving first aid nd keep him calm. show him the Safety Data immediately with enty of water , rinse of with plenty of g water for 15 minutes,
Inhalation Skin contact	 Remove soiled or soaked clothing im If someone exposed to the product f doctor and show this safety data she Adhere to personal protective measu Remove the casualty into fresh air ar Call in a physician immediately and s Sheet. In case of contact with skin wash off polyethylene glycol 400, then with ple If polyethylene glycol is not available water. Rinse immediately with gently runnin maintaining eyelids open. Consult at 	eels unwell, contact a et. ures when giving first aid nd keep him calm. show him the Safety Data immediately with enty of water , rinse of with plenty of g water for 15 minutes, once an ophthalmologist



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al attention and enocial treatment no	adad
•	eueu
: water spray jet foam dry powder carbon dioxide	
he substance or mixture	
 In case of fires, hazardous combustic Carbon monoxide (CO) Nitrous gases (NOx) Sulphur dioxide (SO2) 	on gases are formed:
: Well closed full protective clothing (con- helmet. Use self-contained breathing apparate	
: Fire residues and contaminated firefind disposed of in accordance with the lo	
S	
ive equipment and emergency proced	lures
: See: Exposure controls and personal	I protection.
: Do not allow entry to drains,water co	urses or soil
ntainment and cleaning up	
: Pick up with liquid binding materials a 4 / 12	and if necessary fill in
	foam dry powder carbon dioxide he substance or mixture : In case of fires, hazardous combustie Carbon monoxide (CO) Nitrous gases (NOx) Sulphur dioxide (SO2) : Well closed full protective clothing (c helmet. Use self-contained breathing appara : Fire residues and contaminated firefi disposed of in accordance with the lo s ive equipment and emergency proced : See: Exposure controls and persona : Do not allow entry to drains,water co ntainment and cleaning up : Pick up with liquid binding materials



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	containers capable of being locke Containers in which spilt substan be adequately labelled Dispose of absorbed material in a regulations. Clean contaminated floors and of environmental regulations	ce has been collected must
6.4 Reference to other sections		
Additional advice	 Information regarding Safe handl Information regarding personal per chapter 8. Information regarding Waste Disp 	rotective measures see,
7. Handling and storage		
7.1 Precautions for safe handlin	g	
Advice on safe handling	: Provide good ventilation of workin ventilation if necessary).	ng area (local exhaust
Advice on protection against fire and explosion	: Keep away from sources of ignition	on
7.2 Conditions for safe storage,	including any incompatibilities	
Requirements for storage	: Keep only in the original containe	er
areas and containers Further information on storage conditions	: Keep container tightly closed and place Protect from light.	dry in a cool, well-ventilated
Advice on common storage	: Do not store or transport together	r with foodstuffs
7.3 Specific end uses		
8. Exposure controls/persona	I protection	
8.1 Control parameters		
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Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
2-methoxy- 1- methylethyl acetate	108-65-6	TWA	50 ppm 275 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: Iden Indicative	ifies the poss	sibility of significant up	ake through the skin	
		STEL	100 ppm 550 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: Iden Indicative	ifies the poss	sibility of significant up	take through the skin	

8.2 Exposure controls

Engineering measures

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

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 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.
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	Wash hands before breaks and afte Use barrier skin cream.	r work.
Protective measures	: Do not inhale vapours Avoid contact with eyes and skin Observe the usual precautions for h	andling chemicals.
Environmental exposure of	controls	
General advice	: Do not allow entry to drains,water co	ourses or soil
Physical and chemical pr	operties	
1 Information on basic physi	cal and chemical properties	
Appearance		
Form Colour	: Liquid : 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	
Upper explosion limit	: not determined	
Flammability (solid, gas)	: not determined	
Oxidizing properties	: not determined	
Autoignition temperature	: not determined	
Burning number	: not determined	
рН	: Note: not reasonable	
Freezing point	: not determined	
Freezing point		



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Sublimation point	: not determined	
Vapour pressure	: approx.5 hPa at 20 °C	
Density	: approx.1 g/cm3 at 20 °C	
Water solubility	: Note: The solvent is partially water s forms two layers.	soluble but the product
Partition coefficient: n-	: not determined	
octanol/water Solubility in other solvents	: not determined	
Viscosity, dynamic	: 380 - 500 mPas at 20 °C	
Viscosity, kinematic	: not determined	
Relative vapour density	: not determined	
Evaporation rate	: not determined	
9.2 Other information		
 Stability and reactivity 		
0.1 Reactivity		
-	n under conditions of normal use.	
0.2 Chemical stability No decomposition if stored a	nd applied as directed	
10.3 Possibility of hazardous re		
Hazardous reactions	: Incompatible with oxidizing materials	5.
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	: No decomposition if stored and a	pplied as directed.
11. Toxicological information	l	
11.1 Information on toxicologica	al effects	
Acute toxicity		
Acute oral toxicity	: no data available	
Acute inhalation toxicity	: no data available	
Acute dermal toxicity	: no data available	
Skin corrosion/irritation		
Skin irritation	: no data available	
Serious eye damage/eye irr	itation	
Eye irritation	: no data available	
Respiratory or skin sensitiz	ation	
Sensitisation	: no data available	
Further information	: No toxicological testing was carrie The product was classified on the procedure of the Dangerous Prep (1999/45/EC).	basis of the calculation
12. Ecological information		
12.1 Toxicity		
Toxicity to fish	: no data available	
Toxicity to daphnia and other aquatic invertebrates.	: no data available	
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Toxicity to bacteria	: no data available	
12.2 Persistence and degradab	lity	
Biodegradability	: no data available	
12.3 Bioaccumulative potential		
12.4 Mobility in soil		
12.5 Results of PBT and vPvB a	issessment	
12.6 Other adverse effects		
Additional ecological information	: Do not allow to enter soil, waterways No ecological testing was carried ou The product was classified on the ba procedure of the Dangerous Prepara (1999/45/EC).	t on the preparation. asis of the calculation
13. Disposal considerations		
13.1 Waste treatment methods		
Product	 Product should be taken to a suitable disposal site in accordance with rele necessary after consultation with the and/or the competent Authorities 	vant regulations and if
Contaminated packaging	: Packaging that cannot be cleaned sl product waste	hould be disposed of as
14. Transport information		
IATA UN number Description of the goods	 : 1993 : Flammable liquid, n.o.s. (2-Methoxy-1-methylethyl acetate) 	
Class	: 3	
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Packing group Labels Environmentally hazardo IMDG UN number Description of the goods Class Packing group Labels	 1993 FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate) 3 III 	
EmS Number 1 EmS Number 2 Marine pollutant	: 3 : F-E : S-E : no	
5.1 Safety, health and env	ironmental regulations/legislation specific for	or the substance or mixture
Candidate List of Substa of Very High Concern fo Authorisation	ances : Neither banned nor restricted r	or the substance or mixture
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information	ances : Neither banned nor restricted r	or the substance or mixture
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information Full text of R-phrases r	referred to under sections 2 and 3	or the substance or mixture
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information Full text of R-phrases r R10	ances : Neither banned nor restricted r ssment referred to under sections 2 and 3 Flammable.	or the substance or mixture
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information Full text of R-phrases in R10 Full text of H-Statemen	ances : Neither banned nor restricted r ssment referred to under sections 2 and 3 Flammable. ats referred to under sections 2 and 3.	or the substance or mixture
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information Full text of R-phrases r R10 Full text of H-Statemen H226 Decimal notation: "Thous	ances : Neither banned nor restricted r ssment referred to under sections 2 and 3 Flammable.	e: 2.000 mg/kg means "two
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information Full text of R-phrases r R10 Full text of H-Statemen H226 Decimal notation: "Thous thousand mg/kg"). Decir	ances : Neither banned nor restricted r ssment referred to under sections 2 and 3 Flammable. Its referred to under sections 2 and 3. Flammable liquid and vapour. sands" places are identified with a dot (example	e: 2.000 mg/kg means "two e: 1,35 g/cm3) cetate, CAS no.: 70657-
Candidate List of Substa of Very High Concern fo Authorisation 5.2 Chemical Safety Asses 6. Other information Full text of R-phrases in R10 Full text of H-Statement H226 Decimal notation: "Thous thousand mg/kg"). Decim	ances : Neither banned nor restricted r ssment r r r r r r r r r r r r r r r r r r r	e: 2.000 mg/kg means "two e: 1,35 g/cm3) cetate, CAS no.: 70657-



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