

AZ 5214 E Dhotorogist	0005	
AZ 5214 E Photoresist	0005	
Substance No.: SXR081505 Version 22	Revision Date 31.05.2011	Print Date 22.07.2011
1. Identification of the substand	ce/mixture and of the company/u	Indertaking
1.1 Product identifier		
Trade name	: AZ 5214 E Photoresist 0005	5
1.2 Relevant identified uses of the	substance or mixture and uses adv	vised against
Use of the Substance/Mixture	: Electronic industry Intermediate for electronic industry	
1.3 Details of the supplier of the sa	afety data sheet	
Company	: AZ Electronic Materials (Germany) Rheingaustrasse 190-196, 65203 Wiesbaden Germany	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)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		
GHS Classification	(,,	
Flammable liquids, Category 3	H226: Flammable liquid	and vapour.
Classification (67/548/EEC, 19	99/45/EC)	
Flammable	R10: Flammable.	
2.2 Label elements		
GHS-Labelling		
Symbol(s) :	\wedge	
	\checkmark	
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according to Regulation (EC) No. 1907/2006



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Substance No.: SXR081505 Version 22		Revision Date	31.05.2011	Print Date 22.07.201
Signal word	:	Warning		
Hazard statements	:	H226	Flammable liquid ar	nd vapour.
Precautionary statements	:	Prevention: P210 P233 P280	Keep away from he flames/hot surfaces Keep container tigh Wear protective glo eye protection/ face	No smoking. tly closed. ves/ protective clothing/
		Response: P303 + P361 + P370 + P378	off immediately all of Rinse skin with wate	r hair): Remove/ Take contaminated clothing. er/ shower. dry sand, dry chemical
		Storage: P403 + P235	or alcohol-resistant	
Labelling according to EC 1999/45/EC R-phrase(s)		ectives	Flammable.	
S-phrase(s)		: S60		ts container must be ardous waste.
Hazardous components whi • 108-65-6 2-m		nust be listed on t oxy-1-methylethyl		
2.3 Other hazards No information available.				
3. Composition/information 3.2 Mixtures	on	ingredients		
Chemical characterization A mixture of polymer resins 'Hazardous components	and	diazo compounds	s in halogen free organ	ic solvent.
3,5-Bis(hydroxymethyl)-p- CAS-No.	cres	s ol : 91-04-3		
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EC-No.	:	202-036-4	
Classification(67/548/EEC)	:	Xi; R36/37/38	
Classification (REGULATION (EC) No 1272/2008)		2; H315 Eye Irrit. 2; H319 3; H335	
Concentration [%]	:	>= 1 - < 3	
WEL substance :			
2-methoxy-1-methylethyl ac			
CAS-No.		108-65-6	
EC-No.		203-603-9	
Registration number		01-2119475791-29-xxxx	
Classification(67/548/EEC)	:	R10	
Classification (REGULATION (EC) No 1272/2008)	:	Flam. Liq. 3; H226	
Concentration [%]	:	>= 50 - <= 100	
		nentioned in this Section, see Section 1 ts mentioned in this Section, see Sectio	
4. First aid measures			
4.1 Description of first aid meas	ures		
General advice	:	Remove soiled or soaked clothing imm If someone exposed to the product fee doctor and show this safety data sheet Adhere to personal protective measure	els unwell, contact a t.
Inhalation	:	Remove the casualty into fresh air and Call in a physician immediately and sh Sheet.	
Skin contact	:	In case of contact with skin wash off in polyethylene glycol 400, then with pler If polyethylene glycol is not available, r water.	nty of water
Eye contact	:	Rinse thoroughly with plenty of water f and consult a physician. Remove contact lenses.	or at least 15 minutes
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Ingestion	(Do NOT induce vomiting. Call in a physician immediately and show Sheet. F conscious, drink plenty of water.	w him the Safety Data
4.3 Indication of any immediate n	nedio	al attention and special treatment ne	eeded
Treatment		reat symptomatically.	
5. Fire-fighting measures			
5.1 Extinguishing media			
Suitable extinguishing media	f C	vater spray jet oam Iry powder arbon dioxide	
5.2 Special hazards arising from	the s	ubstance or mixture	
Specific hazards during fire fighting	C N	n case of fires, hazardous combustion g Carbon monoxide (CO) litrous gases (NOx) Sulphur dioxide (SO2)	gases are formed:
5.3 Advice for firefighters			
Special protective equipment for fire-fighters	r	Vell closed full protective clothing (coat elmet. Jse self-contained breathing apparatus	and pants) including
Further information		ire residues and contaminated firefight lisposed of in accordance with the local	
6. Accidental release measure	es		
6.1 Personal precautions, protec	tive e	equipment and emergency procedure	es
Personal precautions	: 5	See: Exposure controls and personal pr	otection.
6.2 Environmental precautions			
Environmental precautions	: [Do not allow entry to drains, water cours	es or soil
6.3 Methods and materials for co	ontain	ment and cleaning up	
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6.4 Reference to other sections Additional advice 7. Handling and storage 7.1 Precautions for safe handling Advice on safe handling : Advice on protection against	Revision Date 31.05.2011 Pick up with liquid binding materials a containers capable of being locked. Containers in which spilt substance h be adequately labelled Dispose of absorbed material in accor regulations.	
6.4 Reference to other sections Additional advice 7. Handling and storage 7.1 Precautions for safe handling Advice on safe handling : Advice on protection against	containers capable of being locked. Containers in which spilt substance h be adequately labelled Dispose of absorbed material in acco	-
 7. Handling and storage 7.1 Precautions for safe handling Advice on safe handling Advice on protection against : 	Clean contaminated floors and object environmental regulations	
 7. Handling and storage 7.1 Precautions for safe handling Advice on safe handling Advice on protection against : 		
Advice on safe handling : Advice on protection against :	Information regarding Safe handling, Information regarding personal protect chapter 8. Information regarding Waste Disposa	ctive measures see,
Advice on protection against :		
Advice on protection against :		
	Provide good ventilation of working a ventilation if necessary).	rea (local exhaust
fire and explosion	Keep away from sources of ignition	
7.2 Conditions for safe storage, inclu	uding any incompatibilities	
areas and containers	Keep only in the original container Keep container tightly closed in a dry place. Protect against light.	^r and well-ventilated
Advice on common storage :	Do not store or transport together wit	h foodstuffs
7.3 Specific end uses		
8. Exposure controls/personal pr 8.1 Control parameters	otection	
Components with workplace co	ntrol parameters	

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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: Ident Indicative	ifies the pos	sibility of significant u	ptake through the skin	
		STEL	100 ppm 550 mg/m3	2000-06-16	2000/39/EC
Further information	: skin: Ident Indicative	lifies the pos	l sibility of significant u	ptake through the skin	
		54, Enc Pot Valu Enc Exp Pot 1,6 Enc Exp Pot	8 mg/kg I Use: Workers iosure routes: Inf ential health effe ue: 33 mg/m3 I Use: Workers iosure routes: Ing ential health effe 7 mg/kg I Use: Consumer iosure routes: Sk ential health effe	cts: Chronic effects gestion cts: Chronic effects s	
		Enc Exp Pot	3,5 mg/kg I Use: Consumer losure routes: Inh ential health effe 5 mg/kg		



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	Marine water Value: 0,0635 mg/l	
	Fresh water sediment Value: 3,29 mg/kg	
	Marine sediment Value: 0,329 mg/kg	
	Soil Value: 0,29 mg/kg	
2 Exposure controls		
Engineering measures		
See chapter7; no measures	exeeding the ones mentioned are necessa	ıry.
Personal protective equip	ment	
Respiratory protection	: Use respiratory protection in case of ventilation or prolonged exposure	insufficient exhaust
Hand protection	 Break through time: > 10 min Glove thickness: > 0,4 mm For short-term exposure (splash prof Nitrile rubber gloves. Remarks: These types of protective of various manufacturers. Please note of detailed statements, especially about and the minimum breakthrough time particular working conditions under v used. 	gloves are offered by the manufacturers´ t the minimum thickness . Consider also the
Eye protection	: tightly fitting safety glasses	
Skin and body protection	: protective clothing	
Hygiene measures	: At work do not eat, drink, smoke or ta Keep away from foodstuffs and beve Wash hands before breaks and after Use barrier skin cream.	erages.
Protective measures	: Do not inhale vapours Avoid contact with eyes and skin Observe the usual precautions for ha	andling chemicals.
Environmental exposure c	ontrols	



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General advice	: Do not allow entry to drains,water of	courses or soil
9. Physical and chemical pro	perties	
9.1 Information on basic physic	al and chemical properties	
Appearance		
Form Colour	: Liquid : yellow to red	
Odour	: ester-like	
Safety data		
Flash point Ignition temperature Thermal decomposition Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Autoignition temperature Burning number pH Freezing point Starts to boil Sublimation point Vapour pressure Density Water solubility Partition coefficient: n- octanol/water Solubility in other solvents Viscosity, dynamic Viscosity, kinematic Relative vapour density Evaporation rate 9.2 Other information	: not determined : not determined	e but the product forms two
10. Stability and reactivity		
10.1 Reactivity		



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No dangerous reaction know	n under conditions of normal use.	
10.2 Chemical stability		
No decomposition if stored a	nd applied as directed.	
10.3 Possibility of hazardous re	actions	
Hazardous reactions	: Incompatible with oxidizing materials	5.
10.4 Conditions to avoid		
Conditions to avoid	: Heat, flames and sparks.	
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 appli	ied as directed.
11. Toxicological information	1	
11.1 Information on toxicologic	al effects	
<u>Product</u>		
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	: no data available	
irritation Respiratory or skin sensitization	: no data available	
<u>Components:</u> 3,5-Bis(hydroxymethyl)-p-o	resol :	
Skin corrosion/irritation	: Result: Irritating to skin.	
Serious eye damage/eye irritation	: Result: Irritating to eyes.	
	: Assessment: May cause respiratory	irritation
STOT - single exposure	. Assessment. May cause respiratory	Initation.



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2-methoxy-1-methylethyl ace Acute oral toxicity	etate: : 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	
12. Ecological information		
12.1 Toxicity		
Product:		
Toxicity to fish	: no data available	
Toxicity to daphnia and other	: no data available	
aquatic invertebrates. Toxicity to bacteria	: no data available	
Components:		
2-methoxy-1-methylethyl ace	etate :	
Toxicity to fish	: LC50: 100 mg/l, 96 h, Oryzias latipes semi-static test	s (Orange-red killifish),
Toxicity to daphnia and other aquatic invertebrates.	: EC50: 373 mg/l, 48 h, Daphnia magr	na (Water flea)
12.2 Persistence and degradabili	ty	
Product:		
Biodegradability	: no data available	
Components:		
2-methoxy-1-methylethyl ace	etate :	
Biodegradability	: 99 %, Result: Readily biodegradable	., Exposure time: 28 d
12.3 Bioaccumulative potential		
Components: 2-methoxy-1-methylethyl ace Bioaccumulation	etate :	
12.4 Mobility in soil	Bioaccumulation is unlikely.	
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<u>Components:</u> 2-methoxy-1-methylethyl ac	otata -	
Distribution among environmental compartments 2.5 Results of PBT and vPvB as	: Koc: 1,7, Highly mobile in soils	
<u>Components:</u> 2-methoxy-1-methylethyl ac		
Assessment	: The substance does not fulfill the PB does not fulfill the vPvB criteria.	T criteria., The substance
2.6 Other adverse effects		
 Disposal considerations Waste treatment methods 		
Product	: Product should be taken to a suitable	
	disposal site in accordance with relevent of the necessary after consultation with the and/or the competent Authorities	
Contaminated packaging	: Packaging that cannot be cleaned sh product waste	ould be disposed of as
4. Transport information		
ADR	1000	
UN number Description of the goods	: 1993 : FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate)	
Class	: 3	
Packing group Classification Code		
Hazard identification No	: F1 : 30	
Labels	: 3	
Environmentally hazardous	: no	
IATA	. 1002	
UN number Description of the goods	 : 1993 : Flammable liquid, n.o.s. (2-Methoxy-1-methylethyl acetate) 	
Class	: 3	
Packing group Labels	: III : 3	

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Further information		
Further information	: Contains: < 0.3 % 2-methoxypropyl 70-4. EC Classification : T, R 10-37	
information and belief at the da guidance for safe handling, us not to be considered a warrant material designated and may r materials or in any process, ur	is Safety Data Sheet is correct to the be ate of its publication. The information giv e, processing, storage, transportation, o ty or quality specification. The information not be valid for such material used in co hless specified in the text. red trademark and the AZ logo is a regis	ven is designed only as a disposal and release and is on relates only to the specific mbination with any other