

Substance No.: SXR100614 Version 33	Revision Date 09.04.2013	Print Date 09.04.2013
SECTION 1: Identification of the su	ubstance/mixture and of the compan	y/undertaking
1.1 Product identifier		
Trade name	: AZ 1505 Photoresist	
1.2 Relevant identified uses of the	substance or mixture and uses advi	ised 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	ЭтbН
•	: +49 (0)611 962 8563 : <u>PSE@az-em.com</u>	
Responsible/issuing person	Product Safety: +49(0)6126-229248 or +49(0)6126-2	227340
1.4 Emergency telephone number		
Emergency telephone number	: +49 69 305 6418	
SECTION 2: Hazards identification	l	
2.1 Classification of the substance	e or mixture	
Classification (REGULATION	(EC) No 1272/2008)	
GHS Classification		
Flammable liquids, Category 3	H226: Flammable liquid a	and vapour.
Classification (67/548/EEC, 19	999/45/EC)	
Flammable	R10: Flammable.	
2.2 Label elements		
GHS-Labelling		
Symbol(s) :	$\wedge$	
	$\checkmark$	
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Signal word	:	Warning			
Hazard statements	:	H226	Flammable liquid and va	pour.	
Precautionary statements	:	Prevention: P210	Keep away from heat/spa flames/hot surfaces No	•	
		P233 P280	Keep container tightly clo Wear protective gloves/ peep protection/ face protection/	osed. protective clothing/	
		Response:			
		P303 + P361 + P	353 IF ON SKIN (or hair off immediately all contar Rinse skin with water/ sh	minated clothing.	
		P370 + P378	In case of fire: Use dry sa or alcohol-resistant foam	-	
		Storage:			
		P403 + P235	Store in a well-ventilated	nlace. Keen cool	

#### 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

trihydroxyphenyl)methanone		iazo-5,6-dihydro-5-oxo-, ester with phenyl(2,3,4-
CAS-No.	:	68510-93-0
EC-No.	:	270-931-7
Classification(67/548/EEC)	:	F; R11
		R52/53
Classification (REGULATION (EC) No 1272/2008)	:	Self-react. D; H242 Skin Irrit. 2; H315 Aquatic Chronic 3; H412
Concentration [%]	:	>= 2,5 - < 5
2-methoxypropyl acetate		
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CAS-No. EC-No. Classification(67/548/EEC)	<ul> <li>70657-70-4</li> <li>274-724-2</li> <li>R10</li> <li>Repr.Cat.2; R61</li> </ul>	
Classification	Xi; R37	
Classification (REGULATION (EC) No 1272/2008)	: Flam. Liq. 3; H226 Repr. 1B; H360D STOT SE 3; H335	
Concentration [%]	: < 0,3	
WEL substance :		
2-methoxy-1-methylethyl a	etate	
CAS-No.	: 108-65-6	
EC-No.	: 203-603-9	
	: 01-2119475791-29-x	XXX
Classification(67/548/EEC)	: R10	
Classification	· Flam Lig 3· H226	
Classification	: Flam. Liq. 3; H226	
(REGULATION (EC) No	: Flam. Liq. 3; H226	
(REGULATION (EC) No 1272/2008)		
(REGULATION (EC) No	: Flam. Liq. 3; H226 : >= 50 - <= 100	
(REGULATION (EC) No 1272/2008)	: >= 50 - <= 100 es mentioned in this Sectio	
(REGULATION (EC) No 1272/2008) Concentration [%] For the full text of the R-phra For the full text of the H-State	: >= 50 - <= 100 es mentioned in this Sectio ments mentioned in this Se	
(REGULATION (EC) No 1272/2008) Concentration [%] For the full text of the R-phra For the full text of the H-State ECTION 4: First aid measures 1 Description of first aid measures	<ul> <li>: &gt;= 50 - &lt;= 100</li> <li>es mentioned in this Sectionents mentioned in this Sectionents mentioned in this Sectionents</li> <li>Ires</li> <li>: Take off all contamination of the symptoms persist, care</li> </ul>	ection, see Section 16. Ited clothing immediately.
(REGULATION (EC) No 1272/2008) Concentration [%] For the full text of the R-phra For the full text of the H-State ECTION 4: First aid measures 1 Description of first aid measures	<ul> <li>: &gt;= 50 - &lt;= 100</li> <li>es mentioned in this Sectionents mentioned in this Sectionents mentioned in this Sectionents</li> <li>ures</li> <li>Take off all contamination of the symptoms persist, can show this safety data section of the symptoms persist.</li> </ul>	ection, see Section 16. Ited clothing immediately. all a physician. sheet to the doctor in attendance. remove victim to fresh air and keep at
(REGULATION (EC) No 1272/2008) Concentration [%] For the full text of the R-phra For the full text of the H-State ECTION 4: First aid measures 1 Description of first aid meas General advice	<ul> <li>: &gt;= 50 - &lt;= 100</li> <li>es mentioned in this Sectionents mentioned in this Sectionents mentioned in this Sectionents</li> <li>ures</li> <li>: Take off all contamination of the symptoms persist, can show this safety data section of the symptom of the</li></ul>	ection, see Section 16. Ited clothing immediately. all a physician. sheet to the doctor in attendance. remove victim to fresh air and keep at fortable for breathing. with plenty of water.
(REGULATION (EC) No 1272/2008) Concentration [%] For the full text of the R-phra For the full text of the H-State ECTION 4: First aid measures 1 Description of first aid meas General advice	<ul> <li>: &gt;= 50 - &lt;= 100</li> <li>es mentioned in this Sectionents mentioned in this Sectionents mentioned in this Sectionents</li> <li>Ires</li> <li>: Take off all contamination of the symptoms persist, can be show this safety data and the symptoms is difficult, rest in a position comformation of the symptoms of the symptoms persist.</li> <li>: If breathing is difficult, rest in a position comformation of the symptoms of the symptoms of the symptoms persist.</li> </ul>	ection, see Section 16. Ited clothing immediately. all a physician. sheet to the doctor in attendance. remove victim to fresh air and keep at fortable for breathing. with plenty of water. s, call a physician. (s) with plenty of water. a.



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4.3 Indication of any immediate m	nedical attention and special treatment	t needed
Treatment	: Treat symptomatically.	
SECTION 5: Firefighting measure	S	
5.1 Extinguishing media		
Suitable extinguishing media	: Water spray jet	
	Foam Dry powder	
	Carbon dioxide (CO2)	
5.2 Special hazards arising from t	he substance or mixture	
Specific hazards during	: In case of fires, hazardous combustic	on gases are formed:
firefighting	Carbon monoxide (CO) Nitrous gases (NOx)	
	Sulphur dioxide (SO2)	
5.3 Advice for firefighters		
Special protective equipment	: Well closed full protective clothing (con helmet.	pat and pants) including
for firefighters	In the event of fire, wear self-contained	ed breathing apparatus.
Further information	: Fire residues and contaminated fire e	extinguishing water must
	be disposed of in accordance with loo	cal regulations.
SECTION 6: Accidental release m	easures	
6.1 Personal precautions, protect	ive equipment and emergency proced	ures
Personal precautions	: Refer to protective measures listed in	n sections 7 and 8.
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface water or sar Avoid subsoil penetration.	nitary sewer system.
6.3 Methods and materials for cor	ntainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent materia	
	acid binder, universal binder, sawdus Keep in suitable, closed containers fo	
	Clean contaminated floors and object	ts thoroughly while
	observing environmental regulations.	



### AZ 1505 Photoresist Substance No.: SXR100614 Revision Date 09.04.2013 Print Date 09.04.2013 Version 33 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. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling : Provide sufficient air exchange and/or exhaust in work rooms. Advice on safe handling Advice on protection against : Keep away from sources of ignition fire and explosion 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Store in original container. areas and containers Further information on : Keep container tightly closed in a dry and well-ventilated storage conditions place. Protect against light. : Keep away from food and drink. Advice on common storage : < 12 Months Storage period 7.3 Specific end use(s) : No information available. **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Components with workplace control parameters : 2-methoxy-1-methylethyl acetate Components CAS-No. 108-65-6 2 Value : TWA **Control parameters** : 50 ppm 275 mg/m3 2000-06-16 Update :



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Basis	:	2000/39/EC	
Further information	:	skin: Identifies the possibility of significant uptake through the skinIndicative	
Value	:	STEL	
Control parameters	:	100 ppm	
		550 mg/m3	
Update	:	2000-06-16	
Basis	:	2000/39/EC	
Further information	:	skin: Identifies the possibility of significant uptake through the skinIndicative	

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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/m3
	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 :	Fresh water
acetate	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	
3.2 Exposure controls		
Engineering measures		
Provide sufficient air exchar	ge and/or exhaust in work rooms.	
Personal protective equip	nent	
Respiratory protection	: Use respiratory protection in case ventilation or prolonged exposure	
Hand protection	<ul> <li>Break through time: &gt; 10 min Glove thickness: &gt; 0,4 mm For short-term exposure (splash Nitrile rubber gloves.</li> <li>Remarks: These types of protect various manufacturers. Please r detailed statements, especially a and the minimum breakthrough particular working conditions und used.</li> </ul>	tive gloves are offered by note the manufacturers´ about the minimum thickness time. Consider also the
Eye protection	: Tightly fitting safety goggles	
Skin and body protection	: protective clothing	
Hygiene measures	: When using do not eat, drink or Keep away from food and drink. Wash hands before breaks and Use barrier skin cream.	
Protective measures	: Do not breathe vapours or spray Avoid contact with skin and eyes Observe the usual precautions f	s.
Environmental exposure of	ontrols	
General advice	: Do not flush into surface water of Avoid subsoil penetration.	or sanitary sewer system.
SECTION 9: Physical and cher		
0.1 Information on basic physi	cal and chemical properties	
Appearance		
Form	: Liquid	

### SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Colour	: yellow to red	
Odour	: ester-like	
Safety data		
Flash point	: approx. 42 °C	
Ignition temperature	: not determined	
Thermal decomposition		
Lower explosion limit	: not determined	
Upper explosion limit Flammability (solid, gas)	: not determined	
Oxidizing properties	: not determined : not determined	
Auto-ignition temperature	: not determined	
Auto-ignition temperature Burning number	: not determined	
pH	: not applicable	
Freezing point	: not determined	
Starts to boil	: from 145 °C	
Sublimation point		
Vapour pressure	: approx. 5 hPa, 20 °C	
Density	: 1 g/cm3, 20 °C	
Water solubility	: The solvent is partially water soluble	but the product forms two
Partition coefficient:	layers. : not determined	
n-octanol/water	. Not determined	
	: not determined	
Solubility in other solvents Viscosity, dynamic	: approx. 6 mPas, 20 °C	
Viscosity, kinematic	: not determined	
Relative vapour density	: not determined	
Corrosive in contact with metals	: not determined	
Evaporation rate	: not determined	
9.2 Other information		
Further information	: Remarks: No information available.	
SECTION 10: Stability and react	ivity	
I0.1 Reactivity		
•	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		
Hazardous reactions	: Incompatible with oxidizing materials.	
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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 pro	ducts	
	Hazardous decomposition : products	No decomposition if stored and applied a	as directed.
SEC	TION 11: Toxicological informa	tion	
11.1	Information on toxicological ef	fects	
	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 : sensitisation Germ cell mutagenicity	no data available	
	Genotoxicity in vitro :	no data available	
	Genotoxicity in vivo :	no data available	
	Further information :	no data available	
	<u>Components:</u> 1-Naphthalenesulfonic acid, 6-I trihydroxyphenyl)methanone :	Diazo-5,6-dihydro-5-oxo-, ester with ph	enyl(2,3,4-
		LD50: > 5.000 mg/kg, rat	
	Skin corrosion/irritation :	rabbit, Result: Skin irritation	
	Serious eye damage/eye : irritation	rabbit, Result: No eye irritation	
	Germ cell mutagenicity		



Genotoxicity in vitro <b>2-methoxy-1-methylethyl ace</b> Acute oral toxicity Acute inhalation toxicity	: Ames test, Result: negative etate : : LD50: > 8.532 mg/kg, rat(female) : LC50: > 10,8 mg/l, 6 h, rat,	
Acute oral toxicity	: LD50: > 8.532 mg/kg, rat(female)	
•		
Acute dermal toxicity	: LD50: > 5.000 mg/kg, rabbit	
ECTION 12: Ecological informat	ion	
2.1 Toxicity		
Product:		
Toxicity to fish	:	
Toxicity to daphnia and other aquatic invertebrates Toxicity to bacteria	no data available : no data available : no data available	
Components:		
1-Naphthalenesulfonic acid, trihydroxyphenyl)methanone	6-Diazo-5,6-dihydro-5-oxo-, ester with p e :	ohenyl(2,3,4-
Toxicity to fish	: LC50: 22 - 50 mg/l, 96 h, Danio rerio (	zebra fish)
Toxicity to bacteria	: EC50: > 1.000 mg/l, OECD 209	
2-methoxy-1-methylethyl ace	etate :	
Toxicity to fish	: LC50: 100 mg/l, 96 h, Oryzias latipes semi-static test	(Orange-red killifish),
Toxicity to daphnia and other aquatic invertebrates	: EC50: 373 mg/l, 48 h, Daphnia magna	a (Water flea)
2.2 Persistence and degradability	ty	
Product:		
Biodegradability	: no data available	
Components:		
1-Naphthalenesulfonic acid, trihydroxyphenyl)methanone	6-Diazo-5,6-dihydro-5-oxo-, ester with p ∋ :	ohenyl(2,3,4-
Biodegradability	: Result: Not readily biodegradable., OE	ECD 301 D



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2-methoxy-1-methylethyl a	cetate :	
Biodegradability	: 99 %, Result: Readily biodegradable	., Exposure time: 28 d
12.3 Bioaccumulative potential		
<u>Components:</u> 2-methoxy-1-methylethyl a	cetate :	
Bioaccumulation	: Bioaccumulation is unlikely.	
12.4 Mobility in soil	bloaccumulation is uninkely.	
Components:		
2-methoxy-1-methylethyl a Distribution among	cetate : : Koc: 1,7, Highly mobile in soils	
environmental compartments	6	
12.5 Results of PBT and vPvB a	assessment	
<u>Components:</u> 2-methoxy-1-methylethyl a	cetate :	
Assessment	: The substance does not fulfill the PB does not fulfill the vPvB criteria.	BT criteria., The substance
12.6 Other adverse effects		
Product:		
Additional ecological information	: no data available	
SECTION 13: Disposal conside	rations	
13.1 Waste treatment methods		
Product	: Dispose of contents/ container to an plant.	approved waste disposal
Contaminated packaging	: Dispose of as unused product.	
SECTION 14: Transport informa	ation	
ADR		
UN number Description of the goods	: 1993 : FLAMMABLE LIQUID, N.O.S.	
	(2-Methoxy-1-methylethyl acetate)	
Environmentally hazardous	: no	
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according to Regulation (EC) No. 1907/2006



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UN number	: 1993	
Description of the goods	: Flammable liquid, n.o.s. (2-Methoxy-1-methylethyl acetate)	
Class Packing group	: 3 : 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	:	
Labels	: 3	
EmS Number 1	: F-E	
EmS Number 2 Marine pollutant	: S-E : no	
	. 10	
RID		
UN number		
Description of the goods	: FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate)	
Environmentally hazardous	: no	
SECTION 15: Regulatory informa	tion	
15.1 Safety health and environm	ental regulations/legislation specific for	the substance or mixture
Substances, preparations and	nanufacture, placing on the market and use articles (Annex XVII)	of certain dangerous
	: Banned and/or restricted	
	2-methoxy-1-methylethyl acetate	
Candidate List of Substances	of Very High Concern for Authorisation	
	: This product does not contain substand	
	concern (Regulation (EC) No 1907/200	ю (REACH), Article 57).
EU. REACH - Annex XIV: List	of substances subject to authorisation	
	: Neither banned nor restricted	
15.2 Chemical Safety Assessmen		
A Chemical Safety Assessmen	t is not required for a mixture.	

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### **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.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
Full text of H-St	tatements referred to under sections 2 and 3.
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
	Man have a discontinuous di 1

H360D May damage the unborn child.

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

: Observe national and local legal requirements

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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