

AZ 6624 Photoresist Substance No.: SXR081564 Version 2.2	0005 Revision Date 24.09.2014	Print Date 13.08.2015
SECTION 1: Identification of the	substance/mixture and of the company/u	undertaking
1.1 Product identifier		
Trade name	: AZ 6624 Photoresist 0005	
1.2 Relevant identified uses of th	e substance or mixture and uses advise	d against
Use of the Substance/Mixture	: Electronic industry Intermediate for electronic industry	
1.3 Details of the supplier of the	safety data sheet	
Company	:	
E-mail address of person responsible for the SDS	: <u>PSE@azem.com</u>	
Responsible/issuing person	: Product Safety: +49(0)6126-229248 or +49(0)6126-227	7340
1.4 Emergency telephone number	er	
Emergency telephone number	:	
SECTION 2: Hazards identification	on	
2.1 Classification of the substan	ce or mixture	
Classification (REGULATIO	N (EC) No 1272/2008)	
GHS Classification		
Flammable liquids, Category 3	H226: Flammable liquid and	l vapour.
Classification (67/548/EEC,	1999/45/EC)	
Flammable	R10: Flammable.	
2.2 Label elements		
GHS-Labelling		



AZ 6624 Photoresist 0005 Substance No.: SXR081564 Revision Date 24.09.2014 Print Date 13.08.2015 Version 2.2 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. Response: P303 + P361 + P353 IF ON SKIN (or hair): 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 to extinguish. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. 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

	phenyl)-methane, mixture of esters with 6-Diazo-5, 6-dihydro-5 pride and 3-Diazo-3, 4-dihydro-6-methoxy-4-oxonaphthalene-1	
EC-No. Registration number Classification(67/548/EEC)	: 421-520-8 : 01-0000016803-70-0000 : F; R11 R53	
Classification	Flam. Sol. 1; H228	



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(REGULATION (EC) No

2-methoxypropyl acetate

1272/2008)

Concentration [%]

Concentration [%]

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	Self-react. D; H242 Aquatic Chronic 4; H413
:	>= 2,5 - < 10
:	70657-70-4

CAS-No. EC-No. Classification(67/548/EEC)	: 274 : R10 Rej	57-70-4 I-724-2 D or.Cat.2; R61 R37
Classification (REGULATION (EC) No 1272/2008)	Re	m. Liq. 3; H226 or. 1B; H360D OT SE 3; H335

Substances with a workplace exposure limit :

2-methoxy-1-methylethyl acetate

: 203-603-9 : 01-2119475791-29-xxxx : R10
: Flam. Liq. 3; H226 : >= 50 - < 70

: >= 0,1 - < 0,3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	 Take off all contaminated clothing immediately. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Wash off immediately with plenty of water. If skin irritation persists, call a physician.
Eye contact	: Immediately flush eye(s) with plenty of water.

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	Protect unharmed eye. Remove contact lenses.	
Ingestion	: If symptoms persist, call a physicia Show this safety data sheet to the o	
4.3 Indication of any immediate m	edical attention and special treatme	ent needed
Treatment	: Treat symptomatically.	
SECTION 5: Firefighting measure	5	
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 firefighting	: In case of fires, hazardous combus Carbon monoxide (CO) Nitrous gases (NOx) Sulphur dioxide (SO2)	tion gases are formed:
5.3 Advice for firefighters		
Special protective equipment for firefighters	: Well closed full protective clothing (helmet. In the event of fire, wear self-contain	
Further information	: Fire residues and contaminated fire be disposed of in accordance with	
SECTION 6: Accidental release m	easures	
6.1 Personal precautions, protect	ive equipment and emergency proce	edures
Personal precautions	: Refer to protective measures listed	in sections 7 and 8.
6.2 Environmental precautions		
Environmental precautions	: Do not flush into surface water or s Avoid subsoil penetration.	anitary sewer system.
6.3 Methods and materials for cor	tainment and cleaning up	
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Methods for cleaning up	:	Soak up with inert absorbent material acid binder, universal binder, sawdust Keep in suitable, closed containers for Clean contaminated floors and objects observing environmental regulations.). disposal.
6.4 Reference to other sections			
Additional advice	:	Information regarding Waste Disposal	, see chapter 13.
SECTION 7: Handling and storage	e		
7.1 Precautions for safe handling			
-		Provide sufficient air exchange and/or	exhaust in work rooms.
Advice on protection against fire and explosion	:	Keep away from sources of ignition	
7.2 Conditions for safe storage, in	ncl	uding any incompatibilities	
Requirements for storage areas and containers	:	Store in original container.	
Further information on storage conditions	:	Keep container tightly closed in a dry a place. Protect against light.	and well-ventilated
Advice on common storage	:	Keep away from food and drink.	
7.3 Specific end use(s)			
	:	No information available.	
SECTION 8: Exposure controls/p	ers	onal protection	
Components with workplace	СС	ntrol parameters	
Components	:	2-methoxy-1-methylethyl acetate]
CAS-No.	:	108-65-6	
Value	:	TWA	
Control parameters	:	50 ppm 275 mg/m3	
Update	:	2009-12-19	
•	:	2000/39/EC	
Basis		2000/00/20	



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Further information	:	skin: Identifies the possibility of significant uptake through the skinIndicative
Value	:	STEL
Control parameters	:	100 ppm
		550 mg/m3
Update	:	2009-12-19
Basis	:	2000/39/EC
Further information	:	skin: Identifies the possibility of significant uptake through the skinIndicative

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

,	according to Regulation (EC) No. 1907/2006: 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
Predicted No Effect Concentrat	ion (PNEC) according to Regulation (EC) No. 1907/2006:
	Fresh water 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 8.2 Exposure controls **Engineering measures** Provide sufficient air exchange and/or exhaust in work rooms. 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 goggles Skin and body protection : protective clothing : When using do not eat, drink or smoke. Hygiene measures Keep away from food and drink. Wash hands before breaks and at the end of workday. Use barrier skin cream. Protective measures : Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Observe the usual precautions for handling chemicals. **Environmental exposure controls** General advice : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties Appearance Form : Liquid Colour : yellow to red 7/15

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Odour : ester-like

 Safety data

 Flash point
 : approx. 42 °C

 Ignition temperature
 : not determined

 Thermal decomposition
 : not determined

 Lower explosion limit
 : not determined

 Upper explosion limit
 : not determined

 Vigit (solid, gas)
 : not determined

 Flammability (solid, gas)
 : not determined

 Oxidizing properties
 : not determined

 Auto-ignition temperature
 : not determined

 Burning number
 : not determined

 PH
 : not applicable

 Freezing point
 : not determined

 Starts to boil
 : from 145 °C

 Sublimation point
 : not determined

 Vapour pressure
 : approx. 1 g/cm3, 20 °C

 Density
 : approx. 1 g/cm3, 20 °C

 Water solubility
 : The solvent is partially water soluble but the product forms two layers.

 Partition coefficient:
 : not determined

 n-octanol/water
 : not determined

 Safety data n-octanol/water Solubility in other solvents: not determinedViscosity, dynamic: 58 - 60 mPas, 20 °CViscosity, kinematic: not determinedRelative vapour density: not determinedCorrosive in contact with: not determined metals : not determined Evaporation rate 9.2 Other information Further information : Remarks: No information available. **SECTION 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.



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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	products	
Hazardous decomposition products	: No decomposition if stored and appli	ied as directed.
SECTION 11: Toxicological info		
11.1 Information on toxicologica		
Product	: no data available	
Acute oral toxicity 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	: no data available	
Germ cell mutagenicity		
Genotoxicity in vitro	: no data available	
Genotoxicity in vivo	: no data available	
STOT - repeated exposure	: no data available	
Further information	: no data available	
Components: Bis-(5-acetyl-2,3,4-trihydrox oxonaphthalene-1-sulfonyl Acute oral toxicity Acute dermal toxicity	xy-phenyl)-methane, mixture of esters v chloride and : : LD50: > 2.000 mg/kg, rat, OECD Tes : LD50: > 2.000 mg/kg, rat, Directive 6	st Guideline 401
,	B.3.	,,
Skin corrosion/irritation	: rabbit, Result: No skin irritation, OEC	D Test Guideline 404
Serious eye damage/eye	: rabbit, Result: No eye irritation, OEC	D Test Guideline 405



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: ure : ite : iyl aceta	 Maximisation Test, guinea pig, Result: Did not cause sensitisation on laboratory animals., OECD Test Guideline 406 Ames test, with or without metabolic activation, Result: positive Chromosome aberration test in vitro, hamster, Result: negative in vitro assay, hamster, with or without metabolic activation, Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
: ure : ite : iyl aceta	 sensitisation on laboratory animals., OECD Test Guideline 406 Ames test, with or without metabolic activation, Result: positive Chromosome aberration test in vitro, hamster, Result: negative in vitro assay, hamster, with or without metabolic activation, Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
: ure : ite : iyl aceta	 sensitisation on laboratory animals., OECD Test Guideline 406 Ames test, with or without metabolic activation, Result: positive Chromosome aberration test in vitro, hamster, Result: negative in vitro assay, hamster, with or without metabolic activation, Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
: ure : ite : iyl acetar	 positive Chromosome aberration test in vitro, hamster, Result: negative in vitro assay, hamster, with or without metabolic activation, Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
: ure : ite : iyl acetar	 positive Chromosome aberration test in vitro, hamster, Result: negative in vitro assay, hamster, with or without metabolic activation, Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
: ure : i te : i yl aceta	 negative in vitro assay, hamster, with or without metabolic activation, Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
ire : ite : iyl aceta	 Result: negative In vivo micronucleus test, mouse, Bone marrow, Result: negative rat, NOAEL: 1.000 mg/kg May damage the unborn child.
ure : ite : ite setar	negative : rat, NOAEL: 1.000 mg/kg : May damage the unborn child.
ite : : iyl aceta	: May damage the unborn child.
: iyl aceta	
	ate :
•	: LD50: > 8.532 mg/kg, rat(female)
:	: LC50: > 10,8 mg/l, 6 h, rat,
:	: LD50: > 5.000 mg/kg, rabbit
ormatio	on
:	: Remarks: no data available
other :	: Remarks: no data available
:	: Remarks: no data available
:	: Remarks: no data available
	ormatic

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l



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	Exposure time: 96 h Method: OECD Test Guideline 203	
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202	> 100 mg/l
Toxicity to algae	: ErC50 (Desmodesmus subspicatus (Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201	green algae)): > 100 mg/l
Toxicity to bacteria	: EC50 (Bacteria): > 1.000 mg/l Test Type: Respiration inhibition Method: OECD 209	
2-methoxy-1-methylethyl ace	etate:	
Toxicity to fish	: LC50 (Oryzias latipes (Orange-red kil Exposure time: 96 h Test Type: semi-static test	lifish)): 100 mg/l
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): Exposure time: 48 h	373 mg/l
2 Persistence and degradabili	ty	
Components:		
Bis-(5-acetyl-2,3,4-trihydroxy oxonaphthalene-1-sulfonylcl	r-phenyl)-methane, mixture of esters w nloride and :	ith 6-Diazo-5, 6-dihydro-5
Biodegradability	 Result: Not readily biodegradable. Biodegradation: < 20 % Exposure time: 28 d Method: OECD 301 F 	
2-methoxy-1-methylethyl ace	etate :	
Biodegradability	: Result: Readily biodegradable. Biodegradation: 99 % Exposure time: 28 d	
3 Bioaccumulative potential		
Components:		
	r-phenyl)-methane, mixture of esters w hloride and : : log Pow: 4	ith 6-Diazo-5, 6-dihydro-5
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2-methoxy-1-methylethyl ac		
Bioaccumulation	: Remarks: Bioaccumulation is unlikely	Ι.
Partition coefficient: n- octanol/water	: log Pow: 1,2	
12.4 Mobility in soil		
Components:		
2-methoxy-1-methylethyl ac Distribution among environmental compartments	: Koc: 1,7Remarks: Highly mobile in so	bils
2.5 Results of PBT and vPvB a	ssessment	
Product:		
Assessment	 This substance/mixture contains no c to be either persistent, bioaccumulative very persistent and very bioaccumula 0.1% or higher 	ve and toxic (PBT), or
Components:		
2-methoxy-1-methylethyl ac Assessment	 tetate : The substance does not fulfill the PB does not fulfill the vPvB criteria 	T criteria The substance
2.6 Other adverse effects		
Product:		
Additional ecological information	: no data available	
SECTION 13: Disposal consider	ations	
13.1 Waste treatment methods		
Product	: Dispose of contents/ container to an a plant.	approved waste disposal
Contaminated packaging	: Dispose of as unused product.	
SECTION 14: Transport informa	tion	
ADR		
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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tion
: no
: 3
: 33
: F1
:
(2-Methoxy-1-methylethyl acetate) : 3
: FLAMMABLE LIQUID, N.O.S.
: 1993
: no
: S-E
. S : F-E
: III : 3
: 3
: FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate)
: 1993
: no
: 3
. 5 : III
(2-Methoxy-1-methylethyl acetate)3
: Flammable liquid, n.o.s.
: 1993
: no
: 3
: 33
: III : F1
: 3 : III
: FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate)



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	preparations and articles (Annex XVII)						
	Regulation (EC) No 649 Parliament and the Cou import of dangerous ch	ncil concerning the export and	:	Neither banned nor restricted			
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation (Annex XIV)		:	This product does not contain substances of very high concern (Regulation (EC) No			
			:	1907/2006 (REACH), Article 57). Neither banned nor restricted			
	Regulation (EC) No 100 deplete the ozone layer	5/2009 on substances that	:	Neither banned nor restricted			
	Regulation (EC) No 850 pollutants	0/2004 on persistent organic	:	Neither banned nor restricted			
15.2 Chemical Safety Assessment A Chemical Safety Assessment is not required for a mixture.							
SECTION 16: Other information							
Full text of R-phrases referred to under sections 2 and 3							
	R10Flammable.R11Highly flammable.R37Irritating to respiratory system.R53May cause long-term adverse effects in the aquatic environment.R61May cause harm to the unborn child.						
	Full text of H-Statements referred to under sections 2 and 3.						
	H226Flammable liquid and vapour.H228Flammable solidH242Heating may cause a fire.H335May cause respiratory irritation.H360DMay damage the unborn child.H413May cause long lasting harmful effects to aquatic life.						
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						
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