

AZ 1512 Photoresist

Version
1.0

Revision Date:
27.02.2020

SDS Number:
70MDGM583515

SECTION 1. IDENTIFICATION

Product identifier

Product name : AZ 1512 Photoresist

Product number : 583515

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet

Company : EMD Performance Materials, an Affiliate of Merck KGaA,
Darmstadt, Germany, 1200 Intrepid Avenue, Suite 300,
Philadelphia, PA 19112, 1-888-367-3275,
www.emdgroup.com/electronics

Emergency telephone : 1-800-424-9300 CHEMTREC (USA)
1-703-741-5970 CHEMTREC (International)
24 Hours/day; 7 Days/week

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**

AZ 1512 Photoresist

Version
1.0

Revision Date:
27.02.2020

SDS Number:
70MDGM583515

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/
equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately
all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P312 IF INHALED: Remove person to fresh air
and keep comfortable for breathing. Call a POISON CENTER/
doctor if you feel unwell.
P370 + P378 In case of fire: Use water spray, alcohol-resistant
foam, dry chemical or carbon dioxide to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container
tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste
disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	Concentration (% w/w)	CAS-No.
1-Methoxy-2-propanol acetate	>= 70 - < 90	108-65-6
Diazonaphthoquinonesulfonic ester	>= 5 - < 10	67829000004-7792P

SECTION 4. FIRST AID MEASURES

If inhaled : Fresh air.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin

AZ 1512 Photoresist

Version
1.0

Revision Date:
27.02.2020

SDS Number:
70MDGM583515

		with water/ shower.
In case of eye contact	:	Rinse out with plenty of water. Remove contact lenses.
If swallowed	:	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Most important symptoms and effects, both acute and delayed	:	We have no description of any toxic symptoms.
Notes to physician	:	No information available.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water Foam Carbon dioxide (CO ₂) Dry powder
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards during fire fighting	:	Combustible. Vapors are heavier than air and may spread along floors. Development of hazardous combustion gases or vapors possible in the event of fire.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Well closed full protective clothing (coat and pants) including helmet.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
---	---	--

AZ 1512 Photoresist

Version
1.0

Revision Date:
27.02.2020

SDS Number:
70MDGM583515

Indications about waste treatment see section 13.

Environmental precautions : No special precautionary measures necessary.

Methods and materials for containment and cleaning up : Observe possible material restrictions (see sections 7 and 10).
Take up with liquid-absorbent material (e.g. Chemizorb®).
Dispose of properly. Clean up affected area.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on protection against fire and explosion : Do not pressurise, cut, weld, braze, solder, drill, or grind on containers.

Advice on safe handling : Keep away from fire (No Smoking).
Observe label precautions.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Store in original container.
Keep tightly closed in a dry, cool and well-ventilated place.

Storage conditions : Keep container tightly closed in a dry and well-ventilated place.
Keep away from heat and sources of ignition.

Risks from decomposition products: see section 10

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1-Methoxy-2-propanol acetate	108-65-6	TWA	50 ppm	US WEEL

Hazardous components without workplace control parameters

Components	CAS-No.
Diazonaphthoquinonesulfonic ester	6782900000 4-7792P

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).
Ensure that eye flushing systems and safety showers are located close to the working place.
Technical measures and appropriate working operations

AZ 1512 PhotoresistVersion
1.0Revision Date:
27.02.2020SDS Number:
70MDGM583515

should be given priority over the use of personal protective equipment.
See section 7.

Personal protective equipment

- Respiratory protection : Not required; except in case of aerosol formation.
- Hand protection
Additional Protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products.
- Eye protection : Safety glasses
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Wash hands and face before breaks and immediately after handling the product.
Keep away from food and drink.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solution
Form	liquid
Color	red
Odor	No information available.
Odor Threshold	No information available.
pH	No information available.
Melting point	No information available.
Boiling point/boiling range	295 °F (146 °C) (solvent)
Flash point	115 °F (46 °C) (solvent)
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	No information available.

AZ 1512 PhotoresistVersion
1.0Revision Date:
27.02.2020SDS Number:
70MDGM583515

Upper explosion limit	No information available.
Vapor pressure	No information available.
Relative vapor density	No information available.
Density	1.038 g/cm ³ at 77 °F (25 °C)
Relative density	No information available.
Water solubility	No information available.
Partition coefficient: n- octanol/water	No information available.
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	No information available.
Oxidizing properties	No information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: See below
Chemical stability	: The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	: no information available
Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.
Incompatible materials	: no information available
Hazardous decomposition products	: no information available

AZ 1512 PhotoresistVersion
1.0Revision Date:
27.02.2020SDS Number:
70MDGM583515

SECTION 11. TOXICOLOGICAL INFORMATION**Information on toxicological effects****Product****Carcinogenicity**

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Acute dermal toxicity

Acute toxicity estimate: 3,390 mg/kg

Calculation method

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product****Persistence and degradability**

No information available.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Additional ecological information

No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13. DISPOSAL CONSIDERATIONS

Product Waste : Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

AZ 1512 PhotoresistVersion
1.0Revision Date:
27.02.2020SDS Number:
70MDGM583515

SECTION 14. TRANSPORT INFORMATION**DOT / 49CFR**

UN/ID/NA number : UN 1993
Proper shipping name : Flammable liquids, n.o.s.
(2-methoxy-1-methylethyl acetate)
Class : 3
Packing group : III
Labels : FLAMMABLE LIQUID
ERG Code : 128
Marine pollutant : no
Remarks : LTD QTY =< 5 L net capacity, as per 49 CFR 173.150,
Combustible Liquid if flash point >= 38 °C (100 °F), as per 49
CFR.173.150(f)

International Regulations**IATA-DGR**

UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(2-methoxy-1-methylethyl acetate)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo
aircraft) : 366
Packing instruction
(passenger aircraft) : 355

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(2-methoxy-1-methylethyl acetate)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : no

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

Cresol 1319-77-3 100lbs

AZ 1512 Photoresist

Version
1.0

Revision Date:
27.02.2020

SDS Number:
70MDGM583515

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM/ Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Cresol	1319-77-3
Formaldehyde	50-00-0

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Cresol	1319-77-3
Formaldehyde	50-00-0

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Formaldehyde	50-00-0
--------------	---------

Pennsylvania Right To Know

acetone	67-64-1
Cresol	1319-77-3
Formaldehyde	50-00-0

AZ 1512 PhotoresistVersion
1.0Revision Date:
27.02.2020SDS Number:
70MDGM583515**California Prop. 65**

Formaldehyde

WARNING: This product can expose you to one or more chemicals which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov
50-00-0

N-methyl-2-pyrrolidone

WARNING: This product can expose you to one or more chemicals which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov
872-50-4

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed on the TSCA Active Inventory.

DSL : This product or its components are listed on or compliant with the DSL.

SECTION 16. OTHER INFORMATION

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.