



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No. 2015/830

**Positive Photo Resist Series AR-P 3100,  
3200, 7100 & SX AR-P 3500/8, X AR-P 5900/4**

Material number AR-P 3100, 3200, 7100 & SX AR-P 3500/8, X AR-P 5900/4

Revision date: 13/8/2019

Version: 9

Language: en-GB,IE

Date of print: 28/8/2020

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: Positive Photo Resist Series AR-P 3100, 3200, 7100 & SX AR-P 3500/8, X AR-P 5900/4

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Intermediate for electronic industry

### 1.3 Details of the supplier of the safety data sheet

Company name: Allresist  
Gesellschaft für chemische Produkte zur Mikrostrukturierung mbH  
Street/POB-No.: Am Biotop 14  
Postal Code, city: 15344 Strausberg  
WWW: [www.allresist.de](http://www.allresist.de)  
E-mail: [info@allresist.de](mailto:info@allresist.de)  
Telephone: +49 (0)33 41-35 93-0  
Telefax: +49 (0)33 41-35 93-29  
Department responsible for information:  
Frau Dr. Zimmermann, Email: [produktion@allresist.de](mailto:produktion@allresist.de)

### 1.4 Emergency telephone number

Telephone: +49 (0)33 41-35 93-0  
Only available during office hours.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Flam. Liq. 3; H226 Flammable liquid and vapour.  
Skin Sens. 1; H317 May cause an allergic skin reaction.  
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (CLP)



Signal word: **Warning**

Hazard statements: H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.



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### Precautionary Statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of water/soap.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.

### Special labelling

Text for labelling: Contains Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq 700$ ), Naphthoquinone diazide and 2-Methoxy-1-methylethyl acetate.

### 2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may have a narcotic effect. Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

Ingredient	Designation	Content	Classification
REACH 01-2119475791-29-xxxx EC No. 203-603-9 CAS 108-65-6	2-Methoxy-1-methylethyl acetate	50 - 80 %	Flam. Liq. 3; H226.
EC No. 270-931-7 CAS 68510-93-0	Naphthoquinone diazide	< 5 %	Flam. Sol. 2; H228. Self-react. CD; H242. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 3; H412.
EC No. 500-033-5 CAS 25068-38-6	Reaction product: Bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq 700$ )	< 5 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. Aquatic Chronic 2; H411.
EC No. 215-293-2 CAS 1319-77-3	Cresol-isomeric mixture	< 0.2 %	Acute Tox. 3; H301. Acute Tox. 3; H311. Skin Corr. 1B; H314.

Full text of H- and EUH-statements: see section 16.



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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General information: IF exposed or concerned: Get medical advice/attention.  
If medical advice is needed, have product container or label at hand. First aider: Pay attention to self-protection!
- In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing. Seek medical aid in case of troubles.
- Following skin contact: Change contaminated clothing. Remove residues with soap and water. In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.
- After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth immediately and drink plenty of water.  
Do not induce vomiting. Seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Decontamination.  
In the event of pulmonary irritation treat initially with dexamethasone - dosing aerosol.  
Subsequent observance for pneumonia and lung oedema.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing powder, water spray jet or carbon dioxide.  
In case of large fires alcohol resistant foam or water spray jet.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapour. On contact with air, potentially explosive mixtures may develop. Vapours may proceed on the ground over great distances and cause fire and backflashes.

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.



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Additional information: Hazchem-Code: •3Y  
Heating will lead to pressure increase: Danger of bursting and explosion. Use fine water spray to cool endangered containers.  
Move undamaged containers from immediate hazard area if it can be done safely.  
In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not allow fire water to penetrate into surface or ground water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/aerosol. Avoid contact with the substance. Ensure adequate ventilation, especially in confined areas.  
Eliminate all ignition sources if safe to do so. If possible, eliminate leakage. Cordon off downwind area at risk and warn inhabitants. Solvent-resistant protective clothing recommended. Keep unprotected people away.  
Take off immediately all contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!  
In case of release, notify competent authorities.

### 6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).  
Beware of reignition. Thoroughly clean surrounding area.  
In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

Additional information: Use explosion-proof equipment and non-sparking tools/utensils.  
Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe vapour/aerosol. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.  
Avoid contact with skin, eyes, and clothing. Wear appropriate protective equipment.  
When using do not eat, drink or smoke. Wash hands thoroughly after handling.  
When handling large quantities, supply emergency spray.  
Take off immediately all contaminated clothing and wash it before reuse.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use grounding equipment. Use only explosion-protected equipment/instruments. Do not weld. Vapours can form explosive mixtures with air.



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## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

- Keep container tightly closed in a cool, well-ventilated place.
- Keep container dry. Keep only in the original container.
- Keep away from sources of ignition and heat. Protect from direct sunlight.
- Store containers in upright position. Explosion protection required.
- Qualified materials: steel, polypropylene.
- Unsuitable materials: Copper, zinc.
- Storage temperature: 10 °C up to 18 °C.

Hints on joint storage: Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from food, drink and animal feedingstuffs.

## 7.3 Specific end use(s)

No information available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
108-65-6	2-Methoxy-1-methylethyl acetate	Europe: IOELV: STEL	550 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	275 mg/m <sup>3</sup> ; 50 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	548 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	274 mg/m <sup>3</sup> ; 50 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	550 mg/m <sup>3</sup> ; 100 ppm (may be absorbed through the skin)
		Ireland: 8 hours	275 mg/m <sup>3</sup> ; 50 ppm (may be absorbed through the skin)
131973	Oesdomic mixture	Europe: IOELV: TWA	22 mg/m <sup>3</sup> ; 5 ppm
		Ireland: 8 hours	22 mg/m <sup>3</sup> ; 5 ppm (may be absorbed through the skin)

## 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

## Personal protection equipment

### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type A (= against vapours of organic substances) according to EN 14387.



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Hand protection:	Protective gloves according to EN 374. Glove material: butyl caoutchouc (butyl rubber) (0.7 mm). Breakthrough time: >480 min. Unsuitable materials: natural rubber, nitrile rubber Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to EN 166.
Body protection:	Flame retardant, antistatic and chemical resistant protective clothing.
General protection and hygiene measures:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapour/aerosol. Do not get in eyes, on skin, or on clothing. Take off immediately all contaminated clothing and wash it before reuse. When using do not eat or drink. Wash hands thoroughly after handling. When handling large quantities, supply emergency spray.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Form: liquid Colour: brown-red
Odour:	ester-like
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	-88 °C (2-Methoxy-1-methylethyl acetate)
Initial boiling point and boiling range:	146 °C (2-Methoxy-1-methylethyl acetate)
Flash point/flash point range:	42 °C (c.c.)
Evaporation rate:	No data available
Flammability:	Flammable liquid and vapour.
Explosion limits:	LEL (Lower Explosion Limit): 1.20 Vol-% (2-Methoxy-1-methylethyl acetate) UEL (Upper Explosive Limit): 10.80 Vol-% (2-Methoxy-1-methylethyl acetate)
Vapour pressure:	at 25 °C: 3.9 hPa (2-Methoxy-1-methylethyl acetate) at 50 °C: 21 hPa (2-Methoxy-1-methylethyl acetate)
Vapour density:	No data available
Density:	at 20 °C: approx. 1.1 g/mL
Water solubility:	at 20 °C: partially soluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	On contact with air, potentially explosive mixtures may develop.
Oxidizing characteristics:	No data available

### 9.2 Other information

Ignition temperature:	315 °C (2-Methoxy-1-methylethyl acetate)
Additional information:	Information about 2-Methoxy-1-methylethyl acetate: Saturation concentration at 20 °C: 26,6 g/m <sup>3</sup> Relative vapour density (air=1): 4,56



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Flammable liquid and vapour. On contact with air, potentially explosive mixtures may develop.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.

### 10.4 Conditions to avoid

Keep away from heat. Protect from direct sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents, alkalis. Attacks many plastics and rubbers.

### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.



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Other information: Information about 2-Methoxy-1-methylethyl acetate:  
LD50 Rat, oral: 8532 mg/kg.  
LD50 Rabbit, dermal: 7500 mg/kg.  
Systemic effects: Drowsiness, cyanosis (blue coloured blood), unconsciousness, narcosis. damage of kidneys.  
Information about Cresol-isomeric mixture:  
LD50 Rat, oral: 1454 mg/kg.  
LD50 Rabbit, dermal: 242 mg/kg.

### Symptoms

Nausea, vomiting, headache, dizziness, unconsciousness.  
In case of inhalation: May cause irritations.  
Other symptoms: depression of central nervous system, Cough and shortage of breath. Pulmonary edema is possible. Symptoms may occur with delay.  
In case of ingestion: May be harmful if swallowed.  
Other symptoms: Nausea, vomiting, depression of central nervous system.  
After contact with skin:  
Danger of cutaneous absorption. May cause irritations. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
After eye contact: May cause irritations.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.  
Information about Bisphenol-A-(epichlorhydrin) epoxy resin (molecular weight <=700):  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 1.1 - 3.6  
Fish toxicity:  
LC50 Oncorhynchus mykiss: 1.5 - 7.7 mg/L/96h.  
Information about Naphthoquinone diazide:  
Fish toxicity:  
LC50 zebrafish 22 - 50 mg/L/96h.  
Information about 2-Methoxy-1-methylethyl acetate:  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): 408 mg/L/48h.  
Fish toxicity:  
LC50 Pimephales promelas (fathead minnow): 161 mg/L/96h.

### 12.2 Persistence and degradability

Further details: Biodegradability:  
Information about 2-Methoxy-1-methylethyl acetate: 83 % /10 d (OECD 301 F).  
Easily bio-degradable

Effects in sewage plants: Information about 2-Methoxy-1-methylethyl acetate:  
EC10 activated sludge: >1000 mg/L/30min (OECD 209)

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available





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## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

No data available

## 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 16 03 05\* = organic wastes containing hazardous substances

\* = Evidence for disposal must be provided.

Recommendation: Incinerate as hazardous waste according to applicable local, state, and federal regulations.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

UN 1993

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

UN 1993, FLAMMABLE LIQUID, N.O.S. (2-Methoxy-1-methylethyl acetate)

### 14.3 Transport hazard class(es)

ADR/RID: Class 3, Code: F1

IMDG: Class 3, Subrisk -

IATA-DGR: Class 3



### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

III

### 14.5 Environmental hazards

Marine pollutant: no



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### 14.6 Special precautions for user

#### Land transport (ADR/RID)

Warning board:	ADR/RID: Kemmler-number 30, UN number UN 1993
Hazard label:	3
Special provisions:	274 601
Limited quantities:	5 L
EQ:	E1
Contaminated packaging - Instructions:	P001 IBC03 LP01 R001
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T4
Portable tanks - Special provisions:	TP1 TP29
Tank coding:	LGBF
Tunnel restriction code:	D/E

#### Sea transport (IMDG)

EmS:	F-E, S-E
Special provisions:	223, 274, 955
Limited quantities:	5 L
Excepted quantities:	E1
Contaminated packaging - Instructions:	P001, LP01
Contaminated packaging - Provisions:	-
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1, TP29
Stowage and handling:	Category A.
Properties and observations:	-
Segregation group:	none

#### Air transport (IATA)

Hazard label:	Flamm. liquid
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y344 - Max. Net Qty/Pkg. 10 L
Passenger and Cargo Aircraft:	Pack.Instr. 355 - Max. Net Qty/Pkg. 60 L
Cargo Aircraft only:	Pack.Instr. 366 - Max. Net Qty/Pkg. 220 L
Special provisions:	A3
Emergency Response Guide-Code (ERG):	3L

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations - Great Britain

Hazchem-Code:	•3Y
	No data available



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### National regulations - EC member states

Volatile organic compounds (VOC):

approx. 75 % by weight = 825 g/L

### Labelling of packaging with <= 125mL content



Signal word:

### Warning

Hazard statements:

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of water/soap.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

### Further information

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H228 = Flammable solid.

H242 = Heating may cause a fire.

H301 = Toxic if swallowed.

H311 = Toxic in contact with skin.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H317 = May cause an allergic skin reaction.

H319 = Causes serious eye irritation.

H411 = Toxic to aquatic life with long lasting effects.

H412 = Harmful to aquatic life with long lasting effects.



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### Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC50: Effective Concentration 50%

EC: European Community

EN: European Standard

EU: European Union

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration

LD50: Lethal dose 50%

LEL: Lower Explosion Limit

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

TLV: Threshold Limit Value

UN: United Nations

vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Reason of change: Changes in section 8: occupational exposure limit values (Germany)

Date of first version: 13/1/2011

### Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.