



SAFETY DATA SHEET

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

Revision date: 13/8/2019
Version: 9
Language: en-GB,IE
Date of print: 28/8/2020

Positive Photoresist series AR-P 5300

Material number AR-P 5300

Page: 1 of 13

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

1.1 Product identifier

Trade name: Positive Photoresist series AR-P 5300

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
E-mail: 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

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 Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.

2.2 Label elements

Labelling (CLP)



Signal word:

Warning

Hazard statements: H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.



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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.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.

Special labelling

Text for labelling: Contains 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 lead to 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 - 75 %	Flam. Liq. 3; H226.
EC No. 270-931-7 CAS 68510-93-0	Naphthoquinone diazide	< 10 %	Flam. Sol. 2; H228. Self-react. CD; H242. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 3; H412.
EC No. 203-585-2 CAS 108-46-3	Resorcinol	< 5 %	Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Acute 1; H400 (M-factor = 1).
EC No. 214-540-1 CAS 1143-72-2	2,3,4-trihydroxybenzophenone	< 2 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335.
EC No. 215-293-2 CAS 1319-77-3	Cresol-isomeric mixture	< 0.5 %	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!
Take off immediately all contaminated clothing and wash it before reuse.
- 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 irritation, 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

Causes skin irritation. Causes serious eye irritation.
Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may lead to a narcotic effect.

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.
With air, vapours form potentially explosive mixtures, which are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.
May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: nitrogen oxides, sulphur oxides, 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. Keep containers cool with water spray.
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.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Eliminate all ignition sources if safe to do so. Avoid contact with the substance. Do not breathe vapour/aerosol.
Wear appropriate protective equipment. Cordon off downwind area at risk and warn inhabitants. Keep unprotected people away.

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. Take off immediately all contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands thoroughly after handling.
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Vapours can form explosive mixtures with air. 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.



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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: strong oxidizing agents, acids, metal salts, acid chlorides, acid anhydrides, iron, alkalis.
- 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 ³ ; 100 ppm (may be absorbed through the skin)
		Europe: IOELV: TWA	275 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	548 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	274 mg/m ³ ; 50 ppm (may be absorbed through the skin)
		Ireland: 15 minutes	550 mg/m ³ ; 100 ppm (may be absorbed through the skin)
		Ireland: 8 hours	275 mg/m ³ ; 50 ppm (may be absorbed through the skin)
108-46-3	Resorcinol	Europe: IOELV: TWA	45 mg/m ³ ; 10 ppm (may be absorbed through the skin)
		Great Britain: WEL-STEL	92 mg/m ³ ; 20 ppm (may be absorbed through the skin)
		Great Britain: WEL-TWA	46 mg/m ³ ; 10 ppm (may be absorbed through the skin)
		Ireland: 8 hours	45 mg/m ³ ; 10 ppm (may be absorbed through the skin)
1319-77-3	Cresol-isomeric mixture	Europe: IOELV: TWA	22 mg/m ³ ; 5 ppm
		Ireland: 8 hours	22 mg/m ³ ; 5 ppm (may be absorbed through the skin)



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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: When aerosols and vapours form: Use appropriate 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.
- Hand protection: Protective gloves according to EN 374.
Glove material: butyl caoutchouc (butyl rubber)-Layer thickness: 0.70 mm.
Breakthrough time: >480 min.
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. Contaminated work clothing should not be allowed out of the workplace.
When using do not eat or drink. Wash hands thoroughly after handling.
Work place should be equipped with a shower and an eye rinsing apparatus.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Physical state at 20 °C and 101.3 kPa: liquid
Colour: brown-red
- Odour: ester-like
- Odour threshold: No data available
- pH value: No data available
- Melting point/freezing point: -66 °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: No data available
- Vapour pressure: at 20 °C: 3.6 hPa (2-Methoxy-1-methylethyl acetate)
at 50 °C: 21 hPa (2-Methoxy-1-methylethyl acetate)
- Vapour density: 4.56 (2-Methoxy-1-methylethyl acetate)
- Density: at 20 °C: approx. 1.10 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



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Explosive properties:
Oxidizing characteristics:

Vapours can form explosive mixtures with air.
No data available

9.2 Other information

Ignition temperature: 333 °C (2-Methoxy-1-methylethyl acetate)

SECTION 10: Stability and reactivity

10.1 Reactivity

Flammable liquid and vapour. Vapours can form explosive mixtures with air.

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 sources, sparks and open flames.
Protect from direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents, acids, metal salts, acid chlorides, acid anhydrides, iron, alkalis.
Attacks many plastics and rubbers.

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available



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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): Based on available data, the classification criteria are not met.

ATEmix (calculated): $2000 \text{ mg/kg} < \text{ATE} \leq 5000 \text{ mg/kg}$

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

ATEmix (calculated): $2000 \text{ mg/kg} < \text{ATE} \leq 5000 \text{ mg/kg}$

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

ATEmix (calculated): $\text{ATE} > 20 \text{ mg/L}$

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

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.

Other information: Information about 2-Methoxy-1-methylethyl acetate:

LD50 Rat, oral: $> 5000 \text{ mg/kg}$.

LD50 Rabbit, dermal: $> 2000 \text{ mg/kg}$.

Information about Resorcinol:

LD50 Rat, oral: 510 mg/kg .

LD50 Rabbit, dermal: 2830 mg/kg .

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:

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.

After contact with skin:

Prolonged/repetitive skin contact may cause skin defatting or dermatitis. Danger of cutaneous absorption.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.



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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Information about 2-Methoxy-1-methylethyl acetate:
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): > 500 mg/L/48h.
Fish toxicity:
LC50 Oncorhynchus mykiss: 134 mg/L/96h (OECD 203)
Algae toxicity:
EC50 Pseudokirchneriella subcapitata (green algae): > 1000 mg/L/96h
Information about Resorcinol:
Algae toxicity:
IC50 Chlorella vulgaris: 605 mg/L/6h (IUCLID).
Bacterial toxicity:
EC50 Photobacterium phosphoreum: 264 mg/L/30min
Daphnia toxicity:
EC50 Daphnia magna (Big water flea): 1.28 mg/L/48h (IUCLID).
Fish toxicity:
LC50 Leuciscus idus: 31.6 mg/L/96h (IUCLID).
Information about Naphthoquinone diazide:
Fish toxicity:
LC50 zebrafish 22 - 50 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.
Information about Resorcinol: 66.7 % /14 d (OECD 301 C). 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

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.



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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

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



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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

National regulations - EC member states

Volatile organic compounds (VOC):
approx. 70 % by weight = 770 g/L

Labelling of packaging with <= 125mL content



Signal word: **Warning**
Hazard statements: not applicable
Precautionary Statements: not applicable

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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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.
- H302 = Harmful if swallowed.
- H311 = Toxic in contact with skin.
- H314 = Causes severe skin burns and eye damage.
- H315 = Causes skin irritation.
- H319 = Causes serious eye irritation.
- H335 = May cause respiratory irritation.
- H400 = Very toxic to aquatic life.
- H412 = Harmful to aquatic life with long lasting effects.

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
- IC50: Inhibition Concentration 50%
- IMDG Code: International Maritime Dangerous Goods Code
- LC50: Median lethal concentration
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- M-factor: Multiplication factor
- 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
- STOT SE: Specific target organ toxicity - single exposure
- TLV: Threshold Limit Value
- UN: United Nations
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit



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

Date of first version: 12/1/2011

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.