

# Material Safety Data Sheet

Side 1 (5)

Product name: E-Beam Resist Series AR-P 631 - 671			
Synonyms:	Liquid Positive E-Beam Resist	Date:	01/07/2003
Producer:	Allresist GmbH - Germany	Last revision:	25/10/2007

## 1. Product- and company name

### 1.1. Product name

E-Beam Resist Series AR-P 631 - 671

### 1.2. Company

**Allresist GmbH**

Am Biotop 14

15344 Strausberg

Germany

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E-mail: info@allresist.de

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## 2. Ingredient

Content (%)	CAS-number	sign	R-set	Compound
(1) > 80	108-90-7	Xn, N	10-20-51/53	Chlorobenzene



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Additional remarks:

Polymethylmethacrylate dissolved in a mixture of organic solvents

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## 3. Possible hazards

- Xn  Hazardous to health
- N  Harmful to the environment
- R 10 Flammable.
- R 20 Harmful by inhalation.
- R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environments.

# Material Safety Data Sheet

Side 2 (5)

Product name: E-Beam Resist Series AR-P 631 - 671			
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## 4. Emergency and First Aid Procedures

Inhalation: Move victim to fresh air. Consult physician if irritation occurs.

Skin contact: Remove and isolate contaminated clothing and shoes. Flush skin with running water. Wash affected areas using mild soap.

Eye contact: Flush the eye and under lids with warm water for 15 minutes (remove contact lenses). Get emergency medical assistance.

Ingestion: Flush mouth and drink many water. Get medical attention immediately.

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## 5. Special fire fighting procedures

Evacuate area of all non-emergency personnel. Fire fighter must wear full emergency equipment with self-containing breathing apparatus. Fight fire from upwind and cool intact containers with water spray or stream at maximum range. Heat may build up and containers may rupture spreading fire and increasing risk of injury. Burning liquid may float on water.

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## 6. Accidental Release Procedures

Remove all sources of ignition. Ventilate area. Avoid skin and eye contact. Use respiratory protection. Absorb with inert materials such as dry clay or sand and place in closed container for disposal.

Waste disposal method: Incineration recommended. Dispose of as a solid industrial waste (non hazardous) in accordance with local, federal and state regulations.

# Material Safety Data Sheet

Side 3 (5)

Product name: E-Beam Resist Series AR-P 631 - 671			
Synonyms:	Liquid Positive E-Beam Resist	Date:	01/07/2003
Producer:	Allresist GmbH - Germany	Last revision:	25/10/2007

## 7. Handling and storage

### 7.1. Handling

Flammable liquid. Keep away from heat sparks and flame. Room ventilation.

Transport and store under dry conditions tightly closed and protected from light.

Avoid contact with skin, eyes and clothing. Safety eye wear to protect against splashes. Wear rubber gloves. Have safety shower and eye wash available.

### 7.2. Storage

Store at 10 - 22 °C (50 – 71.6 °F)

Store in original container

Storage class: 3 A

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## 8. Occupational exposure limits

Name and CAS-number of compounds see item 2. Ingredient

Number	Kind	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>
(1)	MAK	10	47

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## 9. Physical and chemical data

Form: liquid

Dye: light yellow

Odour: aromatic

Melting point: - 45.1 °C (- 49.2 °F)

Boiling point: 132 °C (266 - 270 °F)

Flash point: 28 °C (82.4 °F)

Ignition point: 590 °C (1094 °F)

Flammable limits: Lower 1.3 Vol.-%, Upper 11.0 Vol.-%

Vapour pressure: at 25 °C 11.7 mbar

at 50 °C 53.0 mbar

Density: about 1.11 g/ml

Solubility in water: 500 mg/l

Soluble in the most organic solvents

# Material Safety Data Sheet

Side 4 (5)

Product name: E-Beam Resist Series AR-P 631 - 671

Synonyms: Liquid Positive E-Beam Resist

Date: 01/07/2003

Producer: Allresist GmbH - Germany

Last revision: 25/10/2007

## 10. Stability and reactivity

Chemical stability: Stable

Hazardous polymerisation: will not occur

Conditions to avoid: Contact with alkaline material  
Contact with oxidising material  
Contact with alkali metals  
Contact with strong acids

Hazardous decomposition products:

Thermal decomposition may generate  
Carbon dioxide, carbon monoxide, hydrochloric acid and  
phosgene as well as volatile organic residues.

## 11. Toxicology

It has a narcotic effect, in high concentrations injured for kidney and liver.

LD.50 (oral, rat): 2290 mg/kg,

LD.50 (oral, rabbit): 2830 mg/kg,

LD.50 (oral, mouse): 2300 mg/kg

## 12. Ecological Data

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environments.

## 13. Disposal Considerations

Burn in an EPA-licensed chemical incinerator equipped with an afterburner and scrubber at an approved waste disposal facility. Observe all federal, state and local environmental regulations.

