



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2021

*Version number 1.1 (replaces version 1.0)* 

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

- · 1.1 Product identifier
- Trade name: <u>AR-P 671 series</u>
- · Article number: AR-P 671.02, AR-P 671.04, AR-P 671.05, AR-P 671.09
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- *Application of the substance / the mixture* Intermediate product for the electronics industry. For industrial and commercial use only.
- 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:
- Allresist GmbH Am Biotop 14 15344 Strausberg GERMANY

*E-Mail: info@allresist.de Tel.:* +49 3341 35 93 0

- · Further information obtainable from: Sales
- 1.4 Emergency telephone number: Poison center of the Charité Berlin: +4930 30686700 E-Mail: giftnotruf@charite.de

### **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

flame

Flam. Liq. 3

H226 Flammable liquid and vapour.

environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2

H315 Causes skin irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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(Contd. of page 1) · Hazard pictograms GHS07 GHS02 GHS00 · Signal word Warning · Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof [electrical/ventilating/lighting] equipment. P241 P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P321 Specific treatment (see on this label). P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Take off contaminated clothing and wash it before reuse. *P362+P364* Dispose of contents/container in accordance with local/regional/national/international P501 regulations. · 2.3 Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients** 

• Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
CAS: 108-90-7	chlorobenzene	≥50-≤100%
EINECS: 203-628-5	Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315	
Additional informati	ion: For the wording of the listed hazard phrases refer to section 16.	

• 4.1 Description of first aid measures

**SECTION 4:** First aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

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<sup>· 3.2</sup> Mixtures

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• **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.* 

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

### **SECTION 6:** Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- Recommended storage temperature: 10-22°C
- Storage class (TRGS): 3
- · 7.3 Specific end use(s) No further relevant information available.

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8 1 Contro	l parameters		
	s with limit values that requ	ire monitoring at th	ne workplace:
-	hlorobenzene		
	t-term value: 14 mg/m <sup>3</sup> , 3 pp	m	
	g-term value: 4.7 mg/m <sup>3</sup> , 1 pp		
Sk			
DNELs			
108-90-7 c	hlorobenzene		
Dermal	DNEL Long-term – dermal,	systemic effects	5 mg/kg bw/day (Worker)
	DNEL Acute - dermal system	nic effects	15 mg/kg bw/day (Worker)
Inhalative	DNEL Long-term – inhalati	on, systemic effects	23 mg/m³/day (Worker)
	DNEL Acute – inhalation, s		70 mg/m <sup>3</sup> (Worker)
PNECs	•		
	hlorobenzene		
	rt term, fresh water	0.032 mg/l (Aquati	c organisms)
	rt term, sea water	0.0032 mg/l (Aquat 0.0032 mg/l (Aquat	
	rt term, sewage plant	1.4 mg/l (Microorg	
	rt term fresh water sediment		
	rt term soil		
	rt term son	0.166 mg/kg (teresstric organismens) 0.0922 mg/kg (Aquatic organisms)	
-	s with biological limit value.	s:	
	hlorobenzene		
	nmol/mol creatinine edium: urin		
	mpling time: Post shift		
	rameter: 4-chlorocatechol		
Additional	information: The lists valid	during the making	were used as basis.
8.2 Exposi	ire controls		
	te engineering controls No f	urther data; see iten	n 7.
	protection measures, such a		ve equipment
	otective and hygienic measu		
	from foodstuffs, beverages a ly remove all soiled and cont		
	ls before breaks and at the er		
	act with the skin.		
	act with the eyes and skin.		
Avoid cont Avoid cont	y protection: Not required.		
Avoid cont Avoid cont <b>Respirator</b>			
Avoid cont Avoid cont <b>Respirator</b>			
Avoid cont Avoid cont	ection		
Avoid cont Avoid cont <b>Respirator</b>			
Avoid cont Avoid cont <b>Respirator</b> Hand prot The glove	ection Protective gloves naterial has to be impermea		the product/ the substance/ the preparation.
Avoid cont Avoid cont Respirator Hand prot The glove Due to mis	ection Protective gloves naterial has to be impermea sing tests no recommendatio		
Avoid cont Avoid cont <b>Respirator</b> Hand prot The glove Due to mis the chemic	ection Protective gloves naterial has to be impermea sing tests no recommendatio al mixture.	on to the glove mate	erial can be given for the product/ the preparation
Avoid cont Avoid cont <b>Respirator</b> Hand prot The glove Due to mis the chemic	ection Protective gloves naterial has to be impermea sing tests no recommendation al mixture. of the glove material on c	on to the glove mate	the product/ the substance/ the preparation. erial can be given for the product/ the preparation the penetration times, rates of diffusion and th

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• *Material of gloves* The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### · Eye/face protection



Tightly sealed goggles

### **SECTION 9: Physical and chemical properties**

• 9.1 Information on basic physical and chemical p	roperties
General Information	
· Physical state	Fluid
· Colour:	Colourless
· Odour:	benzene-like
• Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
• Boiling point or initial boiling point and boiling	
range	132 °C (108-90-7 chlorobenzene)
· Flammability	Not applicable.
Lower and upper explosion limit	
· Lower:	1.3 Vol % (108-90-7 chlorobenzene)
· Upper:	11 Vol % (108-90-7 chlorobenzene)
· Flash point:	28 °C (108-90-7 chlorobenzene)
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
- ·	1101 40101 1111004.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health an	d
environment, and on safety.	
· Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
· Solvent content:	
· <i>VOC (EC)</i>	0.00 %
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Solids content:	0.0 %	
Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard	classes	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

#### · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity

· LD/LC50 values relevant for classification:

108-90-7 chlorobenzene

Oral LD50 2,290 mg/kg (rat)

- · Skin corrosion/irritation Causes skin irritation.
- $\cdot$  11.2 Information on other hazards

# · Endocrine disrupting properties

None of the ingredients is listed.

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12.1 Toxi		
Aquatic to	•	
-	chlorobenzene	
	LC50 (4h)	29.7 mg/l (rat)
	LC50 (96h) mg/ltr.	
	EC50 (48h)	0.59 mg/l (daphnia)
	EC50 (30min.)	140 mg/l (Microorganism)
	NOEC	3.3 mg/ml (algae)
		4.8 mg/ml (Fish)
		0.32 mg/ml (daphnia)
12.2 Persi	stence and degradal	bility
	chlorobenzene 15%	-
<b>PBT:</b> Not <b>vPvB:</b> Not <b>12.6 Endo</b>	<b>Its of PBT and vPvB</b> applicable. t applicable. <b>ocrine disrupting pro</b>	
12.7 Othe Remark: Additiona General m Water haz Do not all Danger to Also poiso	<b>r adverse effects</b> No Toxic for fish <b>I ecological informa</b> <b>totes:</b> ard class 2 (German ow product to reach drinking water if eve	ubstances with endocrine disrupting properties. further relevant information available.
12.7 Othe Remark: Additional General m Water haz Do not all Danger to Also poiso Toxic for a	<b>r adverse effects</b> No Toxic for fish <b>I ecological informa</b> <b>totes:</b> ard class 2 (German ow product to reach drinking water if evo onous for fish and pla	ubstances with endocrine disrupting properties. further relevant information available. <b>tion:</b> Regulation) (Self-assessment): hazardous for water ground water, water course or sewage system. en small quantities leak into the ground. inkton in water bodies.
12.7 Othe Remark: <sup>1</sup> Additiona General m Water haz Do not all Danger to Also poisc Toxic for o SECTIO 13.1 Wast Recomme Must not b Uncleaned	r adverse effects No Toxic for fish I ecological informa otes: ard class 2 (German ow product to reach drinking water if evo onous for fish and pla aquatic organisms ON 13: Disposal of the treatment methods indation be disposed together d packaging:	ubstances with endocrine disrupting properties. further relevant information available. <b>tion:</b> Regulation) (Self-assessment): hazardous for water ground water, water course or sewage system. en small quantities leak into the ground. inkton in water bodies.
12.7 Othe Remark: Additiona General n Water haz Do not all Danger to Also poiso Toxic for a SECTIO 13.1 Wast Recomme Must not l Uncleaned Recomme	r adverse effects No Toxic for fish I ecological informa otes: ard class 2 (German ow product to reach drinking water if evo onous for fish and pla aquatic organisms ON 13: Disposal of the treatment methods indation be disposed together d packaging:	ubstances with endocrine disrupting properties. further relevant information available. <b>tion:</b> Regulation) (Self-assessment): hazardous for water ground water, water course or sewage system. en small quantities leak into the ground. inkton in water bodies. <b>considerations</b> with household garbage. Do not allow product to reach sewage system. ust be made according to official regulations.

· ADR · IMDG, IATA 1134 CHLOROBENZENE CHLOROBENZENE

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14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	30
EMS Number:	F-E,S-D
Segregation groups Stowage Category	Liquid halogenated hydrocarbons A
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	Maximum nei quantity per outer packaging: 1000 mi
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1134 CHLOROBENZENE, 3, III

### **SECTION 15: Regulatory information**

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)

None of the ingredients is listed.

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· National regulations:

• VOC (EU) 0.0 g/l

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#### • 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### **SECTION 16: Other information**

#### · Disclaimer

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

#### · Relevant phrases

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H411 Toxic to aquatic life with long lasting effects.

· Department issuing SDS: Quality Management department

· Contact: MSDS authorized Person

#### • Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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