ALLRESIST



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Revision: 12.12.2021

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.12.2021

Version number 8.0 (replaces version 1.0)

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

- · 1.1 Product identifier
- · Trade name: AR-P 669 series
- · Article number: AR-P 669.04, AR-P 669.06, AR-P 669.07
- · 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



Flam. Liq. 3 H226 Flammable liquid and vapour.



Eye Dam. 1 H318 Causes serious eye damage.



STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- · 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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· Hazard pictograms







GHS02

IS02 GHS05

· **Signal word** Danger

Hazard-determining components of labelling:

ethyl (S)-2-hydroxypropionate

n-butyl acetate

· Hazard statements

H226 Flammable liquid and vapour.H318 Causes serious eve damage.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· 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.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER/doctor.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compone	ents:	
	1 - 7 · (-7 · 7 · -7 · -7 · -1 · -1 · · · · · · · · · · · · · · ·	<i>≥50-≤100%</i>
EINECS: 211-694-1	🚸 Flam. Liq. 3, H226; 鉖 Eye Dam. 1, H318; 🕠 STOT SE 3, H335	
	n-butyl acetate	≥25-≤50%
EINECS: 204-658-1	🚸 Flam. Liq. 3, H226; 🐠 STOT SE 3, H336, EUH066	

[·] Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.

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- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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 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).

Use neutralising agent.

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· 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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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingre	dients with li	mit v	alues t	hat	require i	nonito	ring (at the	workpl	lace:		
123-8	6-4 n-butyl a	cetai	te									
11/17/1	C1	1	0.00	- /	2 200							

WEL Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm

· DNELs

123-86-4 n-butyl acetate							
DNEL Long-term - oral, systemic effects	2 mg/kg_bw/day (rat)						
DNEL Acute - oral, systemic effects	2 mg/kg bw/day (rat)						
DNEL Long-term – dermal, systemic effects	7 mg/kg_bw/day (rat)						
DNEL Acute - dermal systemic effects	11 mg/kg bw/day (rat)						
DNEL long-term - inhalation local effects	480 mg/m³ (rat)						
DNEL Long-term – inhalation, systemic effects	480 mg/m³/day (rat)						
DNEL Acute - inhalation, local effects	960 mg/m³ (rat)						
DNEL Acute inhalation systemic effects	960 mg/m³ (rat)						
	DNEL Long-term - oral, systemic effects DNEL Acute - oral, systemic effects DNEL Long-term – dermal, systemic effects DNEL Acute - dermal systemic effects DNEL long-term - inhalation local effects DNEL Long-term – inhalation, systemic effects DNEL Acute - inhalation, local effects						

· PNECs

687-47-8 ethyl (S)-2-hydroxypropionate

PNEC short term, fresh water	0.32 mg/l (Aquatic organisms)
PNEC short term, sea water	0.032 mg/l (Aquatic organisms)
$PNEC\ short\ term\ fresh\ water\ sediment$	1.66 mg/kg (Aquatic organisms)
PNEC short term soil	0.145 mg/kg (Aquatic organisms)
PNEC short term sea water sediment	0.166 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	3.2 mg/l (Aquatic organisms)

123-86-4 n-butyl acetate

PNEC short term, fresh water	0.18 mg/l (Aquatic organisms)
PNEC short term, sea water	0.018 mg/l (Aquatic organisms)
PNEC short term, sewage plant	33.6 mg/l (Aquatic organisms)
$PNEC\ short\ term\ fresh\ water\ sediment$	0.981 mg/kg (Aquatic organisms)
PNEC short term soil	0.0903 mg/kg (Aquatic organisms)
PNEC short term sea water sediment	0.0981 mg/kg (Aquatic organisms)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· 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 properties

· General Information

Physical state
Colour:
Odour:
Mild

· Odour threshold: Not determined. · Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

range 126 °C • Flammability Not applicable.

· Lower and upper explosion limit

Lower: 1.5 Vol %

• Upper: 16.4 Vol %

• Flash point: 36 °C

· Auto-ignition temperature: Product is not selfigniting.

• **Decomposition temperature:** Not determined.

• pH Mixture is non-soluble (in water).

· Viscosity:

Kinematic viscosityDynamic:Not determined.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.

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Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal environment, and on safety.	th and
Ignition temperature:	370 °C
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	T
Organic solvents:	37.2-38.2 %
VÕC (EC)	37.18-38.24 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard o	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
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SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

· Corrosive to metals

· Desensitised explosives

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

Void

- · 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:

687-47-8 ethyl (S)-2-hydroxypropionate

Oral LD50 >5,000 mg/kg (rat)

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Dermal LD50	>5,000 mg/kg (rabbit)
123-86-4 n-bu	tyl acetate
Oral LD50	10,760 mg/kg (rat)
Dermal LD50	5,000 mg/kg (rabbit)
~ · ·	/* ** · · · · · · · · · · · · · · · · ·

- · Serious eye damage/irritation Causes serious eye damage.
- · STOT-single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxici	ity						
· Aquatic tox	· Aquatic toxicity:						
687-47-8 et	687-47-8 ethyl (S)-2-hydroxypropionate						
	LC50 (96h) mg/	/ltr. 320 mg/ltr	r (Fish)				
	EC50 (48h)	683 mg/lti	r. (daphnia)				
123-86-4 n	123-86-4 n-butyl acetate						
Inhalative	Inhalative LC50 (4h) >21 mg/l (rat)						
· 12.2 Persis	tence and degra	adability					
687-47-8 e	ethyl (S)-2-hydro	oxypropionate	86 %				
123-86-4 n	n-butyl acetate		83 %				
· 12.3 Bioace	12.3 Bioaccumulative potential						
123-86-4 n	ı-butyl acetate	2,3					

- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.

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14.1 UN number or ID number ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name ADR IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (BUTY ACETATE, ETHYL LACTATE) FLAMMABLE LIQUID, N.O.S. (BUTYL ACETAT
1/27	ETHYL LACTATE)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	2 Elmand limit
Class Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S-E</u> A
14.7 Maritime transport in bulk according to IM instruments	10 Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 D/E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (BUT) ACETATE, ETHYL LACTATE), 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.

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- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · National regulations:
- · VOC (EU) 371.8-382.4 g/l
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

- · 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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3