



Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 12.12.2021

Version number 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 639 series</u>

- · Article number: AR-P 639.04
- **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.

Corrosion

*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 pictogr	(Contd. of page 1)
GHS02 GH	\$05 GHS07
Signal word Da	anger
Hazard-determ	ining components of labelling:
	roxypropionate
n-butyl acetate	
Hazard statem	
	ammable liquid and vapour.
	uses serious eye damage.
	ty cause respiratory irritation. May cause drowsiness or dizziness.
Precautionary	
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+P	353 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+P	338 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 haza	

• **vPvB:** Not applicable.

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

· 3.2 Mixtures

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

· Dangerous components:

2 mger ous compone		
CAS: 687-47-8	ethyl (S)-2-hydroxypropionate	50-100%
EINECS: 211-694-1	🚸 Flam. Liq. 3, H226; 🕎 Eye Dam. 1, H318; 🚸 STOT SE 3, H335	
CAS: 123-86-4	n-butyl acetate	25-50%
EINECS: 204-658-1	🚸 Flam. Liq. 3, H226; 🚸 STOT SE 3, H336, EUH066	
· Additional information	ion. For the wording of the listed hazard phrases refer to section 16	

• *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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	ol parameters ts with limit values that requ	ire monitoring at t	he workplace:	
0	i-butyl acetate			
	<i>t-term value: 966 mg/m³, 20</i>	0 ppm		
Long	g-term value: 724 mg/m³, 15	0 ppm		
DNELS				
123-86-4 n	1-butyl acetate			
Oral	DNEL Long-term - oral, sys	stemic effects	2 mg/kg_bw/day (rat)	
	DNEL Acute - oral, systemi	c effects	2 mg/kg bw/day (rat)	
Dermal	DNEL Long-term – dermal,	systemic effects	7 mg/kg_bw/day (rat)	
	DNEL Acute - dermal system	nic effects	11 mg/kg bw/day (rat)	
Inhalative	DNEL long-term - inhalatio	n local effects	480 mg/m <sup>3</sup> (rat)	
	DNEL Long-term – inhalati			
	DNEL Acute - inhalation, lo		960 mg/m <sup>3</sup> (rat)	
	DNEL Acute inhalation syst	temic effects	960 mg/m <sup>3</sup> (rat)	
<b>PNECs</b>				
687-47-8 е	ethyl (S)-2-hydroxypropiona	te		
PNEC sho	rt term, fresh water	0.32 mg/l (Aquatio	c organisms)	
PNEC sho	rt term, sea water	0.032 mg/l (Aquat	tic organisms)	
PNEC sho	rt term fresh water sediment	1.66 mg/kg (Aqua	tic organisms)	
PNEC sho	rt term soil		0.145 mg/kg (Aquatic organisms)	
PNEC sho	rt term sea water sediment	0.166 mg/kg (Aquatic organisms)		
	rt term, intermittent releases	3.2 mg/l (Aquatic	organisms)	
	1-butyl acetate			
	rt term, fresh water	0.18 mg/l (Aquatio		
	rt term, sea water	0.018 mg/l (Aquatic organisms)		
	rt term, sewage plant	33.6 mg/l (Aquatio		
	rt term fresh water sediment	0 0 1	e ,	
	rt term soil	0.0903 mg/kg (Aq		
	rt term sea water sediment	0.0981 mg/kg (Aquatic organisms)		
Additional	<b>information:</b> The lists valid	during the making	were used as basis.	
Appropria Individual General p Keep away Immediate	ure controls te engineering controls No f protection measures, such a rotective and hygienic measu from foodstuffs, beverages a ly remove all soiled and cond s before breaks and at the el	<b>as personal protect</b> ures: and feed. taminated clothing		
Avoid cont	tact with the eyes.	~		
	tact with the eyes and skin.			
<i>Respirator</i>	y protection:		filter device. In case of intensive or longer expos	

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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**

General Information	Fluid	
Physical state		
Colour:	Colourless	
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 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.	

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Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal	th and
environment, and on safety.	
Ignition temperature:	370 °C
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	20.40/
Organic solvents:	38.4 %
VOC (EC)	38.40 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard of	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:

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-butyl 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 Toxicity

• Aquatic toxicity:

Ациин юмену.			
687-47-8	ethyl (S)-2-hydroxyp	ropionate	
	LC50 (96h) mg/ltr.	320 mg/lt	r (Fish)
	EC50 (48h)	683 mg/lt	r. (daphnia)
123-86-4	n-butyl acetate		
Inhalative	LC50 (4h)	>21 mg/l (rat)	
· 12.2 Persi	stence and degradal	bility	
687-47-8	8 ethyl (S)-2-hydroxypropionate		86 %
123-86-4	n-butyl acetate		83 %
· 12.3 Bioa	ccumulative potentia	ıl	
123-86-4	<i>n-butyl acetate</i> 2,3		
• 12.4 Mobi	i <b>lity in soil</b> No furthe	r 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
	011775
14.2 UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S. (BUTY
	ACETATE, ETHYL LACTATE)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATI
	ETHYL LACTATE)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
3	
Class	2 Elammahla liawida
Label	3 Flammable liquids. 3
	5
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	30 F-E,S-E
Stowage Category	A
14.7 Maritime transport in bulk according to IM instruments	Not applicable.
	nor appreciate.
Transport/Additional information:	
ADR	51
Limited quantities (LQ) Exagnted quantities (EQ)	5L Code: El
Excepted quantities (EQ)	<i>Maximum net quantity per inner packaging: 30 ml</i>
	Maximum net quantity per outer packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	$M_{\rm emin} = 1000  {\rm em}^2$
	Maximum net quantity per outer packaging: 1000 ml

## **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) 384.0 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