ALLRESIST



Page 1/10

Revision: 12.12.2021

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

Printing date 12.12.2021

Version number 1.1 (replaces version 1.0)

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

· 1.1 Product identifier

· Trade name: AR-P 1230

· Article number: AR-P 1230

· 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. 2 H225 Highly flammable liquid and vapour.



STOT SE 3 H336 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.

(Contd. on page 2)

(Contd. of page 1)

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

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

· Hazard pictograms





GHS02

ISO2 GHSO

· Signal word Danger

· Hazard-determining components of labelling:

2-methoxy-1-methylethyl acetate

butanone

· Hazard statements

H225 Highly flammable liquid and vapour. H336 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.

P405 Store locked up.

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

regulations.

· Additional information:

EUH 208: Contains propyl 3,4,5-trihydroxybenzoate. May produce an allergic reaction.

- · 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 components:			
Γ	CAS: 108-65-6	2-methoxy-1-methylethyl acetate	<i>≥50-≤100%</i>	
	EINECS: 203-603-9	🚸 Flam. Liq. 3, H226; 아 STOT SE 3, H336		
CAS: 78-93-3 butanone		butanone	≥2.5-<10%	
	EINECS: 201-159-0	Flam. Liq. 2, H225; 🗘 Eye Irrit. 2, H319; STOT SE 3, H336, EUH066		
Γ	CAS: 121-79-9	propyl 3,4,5-trihydroxybenzoate	≥0.1-<0.25%	
	EINECS: 204-498-2	Eye Dam. 1, H318; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317		

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

- G

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

(Contd. of page 2)

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After skin contact: Immediately rinse with water.
- · After eve 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.
- 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).

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: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- · Recommended storage temperature: 10-18°C
- · Storage class (TRGS): 3

(Contd. on page 4)

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

· 7.3 Specific end use(s) No further relevant information available.

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· Ingredients with limit values that require monitoring at the workplace:

PNEC short term fresh water sediment | 284.7 mg/kg (Aquatic organisms)

PNEC short term, intermittent releases 55.8 mg/l (Aquatic organisms)

· 8.1 Control parameters

PNEC short term soil

108-65-6 2-methoxy-1-methylethyl acetate			
	t-term value: 548 mg/m³, 100		
	g-term value: 348 mg/m , 100 g-term value: 274 mg/m³, 50		
Sk	, ,	rr	
78-93-3 bu	tanone		
WEL Shor	t-term value: 899 mg/m³, 300	0 ррт	
	g-term value: 600 mg/m³, 200) ppm	
Sk, E	BMGV		
DNELs			
108-65-6 2	-methoxy-1-methylethyl ace	rtate	
Oral	DNEL Long-term - oral, sys	temic effects	1.67 mg/kg_bw/day (rat)
Dermal	DNEL Long-term – dermal,	systemic effects	153.5 mg/kg_bw/day (rat)
Inhalative	DNEL long-term - inhalatio	n local effects	$33 \text{ mg/m}^3 \text{ (rat)}$
	DNEL Long-term – inhalati	on, systemic effects	275 mg/m³/day (rat)
	DNEL Acute - inhalation, lo	cal effects	$2,420 \text{ mg/m}^3 \text{ (rat)}$
78-93-3 bu	tanone		
Oral	DNEL Long-term - oral, systemic effects		31 mg/kg bw/day (general public)
Dermal	DNEL Long-term – dermal,	systemic effects	1.161 mg/kg bw/day (Worker)
	DNEL Acute - dermal, local	effects	412 mg/kg (general public)
Inhalative	DNEL Long-term – inhalati	on, systemic effects	600 mg/m³/day (Worker)
	Ç		106 mg/m³/day (general public)
PNECs			0 1 0
	-methoxy-1-methylethyl ace	rtate	
	rt term, fresh water	0.635 mg/l (Aquati	ic organisms)
	rt term, sea water	0.0635 mg/l (Aquatic organisms)	
		100 mg/l (Aquatic organisms)	
PNEC short term, sewage plant PNEC short term fresh water sediment			
-		0.29 mg/kg (Aquatic organisms)	
PNEC short term sea water sediment		0.329 mg/kg (Aquatic organisms)	
		6.35 mg/l (Aquatic organisms)	
78-93-3 bu		0.55 mg/i (214uunc	organisms)
	rt term, fresh water	55.8 mg/l (Aquatic	organisms
	rt term, sea water	0 , 1	,
	rt term, seu water rt term, sewage plant	55.8 mg/l (Aquatic organisms) 709 mg/l (Aquatic organisms)	
I NEC SHOP	i ieim, sewaze piani	103 mg/i (Aqualle	organisms)

22.5 mg/kg (teresstric organismens)

(Contd. on page 5)

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

(Contd. of page 4)

· Ingredients with biological limit values:

78-93-3 butanone

BMGV 70 µmol/L

Medium: urine

Sampling time: post shift Parameter: butan-2-one

- · 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:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· 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.

· 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:
Odour threshold:
Melting point/freezing point:

Fluid
Brown
Solvent-like
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling

range Undetermined.
Flammability Not applicable.

(Contd. on page 6)

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

(Contd. of page 5)

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined.

· Flash point: 12 °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 at 20 °C: 1 g/cm³

Relative densityVapour densityNot determined.Not determined.

· 9.2 Other information

· Appearance:

· Form: Fluid

Important information on protection of health and

environment, and on safety.

• Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures are possible.

· Solvent content:

• Organic solvents: 98.5-<98.8 % • VOC (EC) 98.49-<98.81 %

· 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 Highly flammable liquid and vapour.

Flammable solids
 Self-reactive substances and mixtures
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures, which emit flammable

Substances and mixtures, which emit flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Desensitised explosives
Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 7)

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

(Contd. of page 6)

- · 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/LC5	· LD/LC50 values relevant for classification:				
108-65-	108-65-6 2-methoxy-1-methylethyl acetate				
Oral LD50 8,532 mg/kg (rat)		8,532 mg/kg (rat)			
78-93-3 butanone					
Oral	<i>LD50</i>	3,300 mg/kg (rat)			
Dermal	<i>LD50</i>	5,000 mg/kg (rabbit)			
	121-79-9 propyl 3,4,5-trihydroxybenzoate				
		1,000-2,000 mg/kg (rat)			
Dermal	<i>LD50</i>	>2,000 mg/kg (rat)			

- · STOT-single exposure May cause drowsiness or dizziness.
- · 11.2 Information on other hazards
- Endocrine disrupting properties

78-93-3 butanone

List II

SECTION 12: Ecological information

· 12.1 Toxicity

108-65-6 2-methoxy-1-methylethyl acetate			
Inhalative	LC50 (4h)	35.7 mg/l (rat)	
	LC50 (96h) mg/ltr.	>100 mg/ltr (Fish)	
		100-180 mg/ltr (Oncorhynchus mykiss)	
		134 mg/ltr (rainbow trout)	
	EC50 (48h)	408 mg/l (daphnia)	
	ErC50 (96h)	>1,000 mg/ltr (algae)	
	NOEC	100 mg/ml (daphnia)	
78-93-3 bi	itanone		
Inhalative	LC50 (4h)	34.5 mg/l (rat)	
	LC50 (96h) mg/ltr.	2,990 mg/ltr (Fish) (OECD 203)	
	LC50 (48h) mg/ltr	>100 mg/ltr (Fish)	
	EC50 (48h)	>100 mg/l (algae)	
		>100 mg/l (Daphnia magna)	
		308 mg/l (daphnia) (OECD 202)	
	EC50 (72h)	1,972 mg/l (Pseudokirchneriella subcapitata)	
	NOEC	1,150 mg/ml (Microorganism)	

ontu. on page o

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

121-79-9	propyl 3,4,5-trihydr	oxybenzoate	(Co	ontd. of page 7)
	EC50 (48h)	19.06 mg/l (daphnia)		
	EC50 (3h)	636 mg/l (M	(licroorganism)	
· 12.2 Pers	istence and degrada	ability		
108-65-6	2-methoxy-1-methylethyl acetate		90 %	
78-93-3	butanone		98 %	
· Method	· Method			
108-65-6	2-methoxy-1-methy	lethyl acetate	83	

- · 12.3 Bioaccumulative potential No further relevant information available.
- · 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 For information on endocrine disrupting properties see section 11.
- · 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.

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.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name	
· ADR	1993 FLAMMABLE LIQUID, N.O.S. (ETHYL METHY KETONE (METHYL ETHYL KETONE), 2-methoxy-methylethyl acetate)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ETHYL METHY KETONE (METHYL ETHYL KETONE), 2-methoxy-methylethyl acetate)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

	(Contd. of page
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards:	Not applicable.
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E, <u>S-E</u> B
· 14.7 Maritime transport in bulk according to IM instruments	10 Not applicable.
Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHY METHYL KETONE (METHYL ETHYL KETONE), METHOXY-1-METHYLETHYL ACETATE), 3, II

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 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)** 984.9-<988.1 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

(Contd. on page 10)

Printing date 12.12.2021 Version number 1.1 (replaces version 1.0) Revision: 12.12.2021

Trade name: AR-P 1230

(Contd. of page 9)

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

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- *H410 Very toxic to aquatic life with long lasting effects.*

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. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

GB