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 6.0 (replaces version 1.0)

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

- · 1.1 Product identifier
- · Trade name: AR-BR 5400 series
- · Article number: AR-BR 5460, AR-BR 5480
- \cdot 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.



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.

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Trade name: AR-BR 5400 series

· Hazard pictograms



· Signal word Warning

Hazard-determining components of labelling:

1-methoxy-2-propanol

· Hazard statements

H226 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.

· 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.

· D	angerous	components:
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· 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.
- · After skin contact: Immediately rinse with water.
- · 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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• 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: 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.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm

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Trade name: AR-BR 5400 series

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· DNELs				
107-98-2 1	l-methoxy-2-propanol			
Oral	DNEL Long-term - oral, sys	temic effects	3.3 mg/kg_bw/day (rat)	
Dermal	DNEL Long-term – dermal,	systemic effects	50.6 mg/kg_bw/day (rat)	
Inhalative	DNEL Long-term – inhalation, systemic effects		369 mg/m³/day (rat)	
	DNEL Acute - inhalation, lo	ocal effects	535.5 mg/m³ (rat)	
PNECs				
107-98-2	l-methoxy-2-propanol			
PNEC short term, fresh water		10 mg/l (Aquatic organisms)		
PNEC short term, sea water		1 mg/l (Aquatic organisms)		
PNEC sho	rt term, sewage plant	100 mg/l (Aquatic	organisms)	
PNEC short term fresh water sediment		52.3 mg/kg (Aquatic organisms)		
PNEC short term soil		2.47 mg/kg (teresstric organismens)		
PNEC short term sea water sediment		5.2 mg/kg (Aquatic organisms)		
PNEC short term, intermittent releases		100 mg/l (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:

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.

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· 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:
Fluid
Yellowish
Characteristic
Not determined.

• Melting point/freezing point: -96 °C

· Boiling point or initial boiling point and boiling

range 120 °C

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: 1.7 Vol %
 · Upper: 13.1 Vol %
 · Flash point: 32 °C

· Auto-ignition temperature: Product is not selfigniting.

• **Decomposition temperature:** Not determined.

• pH at 20 °C 4-7

· Viscosity:

Kinematic viscosityDynamic at 20 °C:Not determined.1.7 mPas

·Solubility

water: Not miscible or difficult to mix.

· Partition coefficient n-octanol/water (log value) Not determined.

· Vapour pressure at 20 °C: 12 hPa

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

9.2 Other information

· Appearance:

· Form: Fluid · Important information on protection of health and

environment, and on safety.

· Ignition temperature: 287 °C

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

explosive air/vapour mixtures are possible.

· Solvent content:

• Organic solvents: 86.9-<90.8 % • VOC (EC) 86.87-<90.84 %

· Change in condition

· Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives Void
Flammable gases Void
Aerosols Void

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		(Contd. of page 5)
· 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 flammable	le	
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

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	vannes	reievant	TOV C	anssitication.

107-98-2 1-methoxy-2-propanol

 Oral
 LD50
 5,660 mg/kg (rat)

 Dermal
 LD50
 13,000 mg/kg (rabbit)

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

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

List II

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic to.	· Aquatic toxicity:		
107-98-2 1-methoxy-2-propanol			
Inhalative	LC50 (4h)	27.596 mg/l (rat)	
	LC50 (96h) mg/ltr.	6,812 mg/ltr (Fish)	
	EC50 (48h)	23,300 mg/l (daphnia)	

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	· 12.2 Persis	tence and degradability	
Ī		1-methoxy-2-propanol	96 %
		Poly(methacrylic acid-co-methyl methacrylate)	8% %
		bis[4-(2,3-epoxypropoxy)phenyl]propane	5 %
	· 12.3 Bioac	cumulative potential	
	107-98-2	l-methoxy-2-propanol 0,43	

- · 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	UN3092
14.2 UN proper shipping name	
ADR	3092 1-METHOXY-2-PROPANOL
IMDG, IATA	1-METHOXY-2-PROPANOL
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Lahel	3
	3
14.4 Packing group	111
ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Flammable liquids. 30

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Stowage Category	(Contd. of pa
Stowage Category	71
14.7 Maritime transport in bulk accord	ding to IMO
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	D/E
<i>IMDG</i>	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3092 1-METHOXY-2-PROPANOL, 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 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) 800.1-<836.6 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.

H336 May cause drowsiness or dizziness.

· Department issuing SDS: Quality Management department

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· 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

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