ALLRESIST



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

Printing date 03.10.2022 Version number 8.1 Revision: 03.10.2022

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

- · 1.1 Product identifier
- · Trade name: AR-N 4600-10
- · Article number: AR-N 4600-10
- · 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 GB CLP regulation.

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Trade name: AR-N 4600-10

· Hazard pictograms



· Signal word Warning

Hazard-determining components of labelling:

2-methoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

· Precautionary statements

If medical advice is needed, have product container or label at hand. P101

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No P210

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.

· Dangerous components:

CAS: 108-65-6 2-methoxy-1-methylethyl acetate 25-50% EINECS: 203-603-9 🍪 Flam. Liq. 3, H226; 🕠 STOT SE 3, H336

· 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.

- 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:

Dilute with plenty of water.

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.

GB

Trade name: AR-N 4600-10

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

108-65-6 2-methoxy-1-methylethyl acetate

WEL Short-term value: 548 mg/m³, 100 ppm Long-term value: 274 mg/m³, 50 ppm

· DNELs

108-65-6 2-methoxy-1-methylethyl acetate

Oral	DNEL Long-term - oral, systemic 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 - inhalation local effects	33 mg/m³ (rat)
	DNEL Long-term – inhalation, systemic effects	275 mg/m³/day (rat)
	DNEL Acute - inhalation, local effects	$2,420 \text{ mg/m}^3 \text{ (rat)}$

· PNECs

108-65-6 2-methoxy-1-methylethyl acetate

0.635 mg/l (Aquatic organisms)
0.0635 mg/l (Aquatic organisms)
100 mg/l (Aquatic organisms)
3.29 mg/kg (Aquatic organisms)
0.29 mg/kg (Aquatic organisms)
0.329 mg/kg (Aquatic organisms)
6.35 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

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



Protective gloves

· 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.

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· 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
Orange
Ester-like
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling

range 145 °C • Flammability Flammable.

· Lower and upper explosion limit

 · Lower:
 1.5 Vol %

 · Upper:
 10.8 Vol %

 · Flash point:
 44 °C

 · Ignition temperature:
 315 °C

• Decomposition temperature: Not determined.

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

· Viscosity:

· Kinematic viscosity Not determined.

· Viscosity @100°C:

· **Dynamic:** Not determined.

·Solubility

water: Fully miscible.
Partition coefficient n-octanol/water (log value)
Vapour pressure at 20 °C: 3.1 hPa

· Vapour pressure at 20 °C: · Density and/or relative density

Density at 20 °C:
Relative density
Density (@15°C)
Vapour density

1.04 g/cm³
Not determined.
Not determined.
Not determined.

9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

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

explosive air/vapour mixtures are possible.

· Solvent content:

• Organic solvents: 47.7 % • VOC (EC) 47.72 %

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		(Contd. of page
· Change in condition		
Evaporation rate	Not determined.	
Information with regard to physical hazard c	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 flamme	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:
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108-65-6	2-methoxy	-1-methylethyl acetate
Oral	LD50	8 532 mg/kg (rat)

Inhalative LC50 (4h) 35.7 mg/l (rat)

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

None of the ingredients is listed.

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:		
108-65-6 2-methoxy-1-methylethyl acetate		
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/l (daphnia)	

· 12.2 Persistence and degradability

108-65-6 2-methoxy-1-methylethyl acetate 90 %

· Method

108-65-6 2-methoxy-1-methylethyl 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

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.

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.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name	
· ADR	1993 FLAMMABLE LIQUID, N.O.S. (2-methoxy-methylethyl acetate)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (2-methoxy-methylethyl acetate)

Trade name: AR-N 4600-10

(Contd. of page 7) · 14.3 Transport hazard class(es) · ADR, IMDG, IATA 3 Flammable liquids. · Class · Label · 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-E· Stowage Category · 14.7 Maritime transport in bulk according to IMO Not applicable. instruments · Transport/Additional information: $\cdot ADR$ 5L· Limited quantities (LQ) Code: E1 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category D/E· Tunnel restriction code \cdot IMDG · Limited quantities (LQ) 5LCode: E1 Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml UN 1993 FLAMMABLE LIQUID, N.O.S. (2-METHOXY-· UN "Model Regulation": 1-METHYLETHYL ACETATE), 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) 496.3 g/l

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· 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
- · 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 (UK REACH)

PNEC: Predicted No-Effect Concentration (UK 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

* * Data compared to the previous version altered.