ALLRESIST



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2021

Version number 11.0 (replaces version 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 300-70 series</u>
- · Article number: AR 300-70, AR 300-72
- **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

health hazard

Repr. 1A H360Df May damage the unborn child. Suspected of damaging fertility.

Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- · 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 300-70 series (Contd. of page 1) · Hazard pictograms GHS05 GHS08 · Signal word Danger · Hazard-determining components of labelling: N-Ethyl-2-Pyrrolidone · Hazard statements H318 Causes serious eye damage. H360Df May damage the unborn child. Suspected of damaging fertility. · 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. Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. *P308+P313* IF exposed or concerned: Get medical advice/attention. 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

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

· Dangerous components:			
CAS: 2687-91-4 EINECS: 220-250-6		🚸 Repr. 1A, H360Df; 🧇 Eye Dam. 1, H318	50-100%
Additional information. For the wording of the listed harand physics 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

• *After skin contact: Generally the product does not irritate the skin.*

• *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.

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^{· 3.2} Mixtures

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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). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

• 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 Open and handle receptacle with care.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- 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): 6.1 C
- 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs	·DNELs		
2687-91-4	2687-91-4 N-Ethyl-2-Pyrrolidone		
Oral	DNEL Long-term - oral, systemic effects	0.5 mg/kg_bw/day (general public)	
Dermal	DNEL Long-term – dermal, systemic effects	4 mg/kg_bw/day (Worker)	
		0.5 mg/kg_bw/day (general public)	
Inhalative	DNEL long-term - inhalation local effects	10.05 mg/m ³ (Worker)	
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DNEL Long-term – inhalati	ion, systemic effects 1.2 mg/m ³ (general public) 16.75 mg/m ³ /day (Worker) 1 mg/m ³ /day (BEv)	
· PNECs		
2687-91-4 N-Ethyl-2-Pyrrolidone		
PNEC short term, fresh water	0.25 mg/l (Aquatic organisms)	
PNEC short term, sea water	0.025 mg/l (Aquatic organisms)	
PNEC short term, sewage plant	10 mg/l (Aquatic organisms)	
PNEC short term fresh water sediment	1.25 mg/kg (Aquatic organisms)	
PNEC short term soil	0.104 mg/kg (teresstric organismens)	
PNEC short term sea water sediment	0.125 mg/kg (Aquatic organisms)	
Additional information: The lists valid during the making were used as basis.		

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.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· Respiratory protection: Not required.

· 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

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9.1 Information on basic physical and chemical p	properties
General Information	
Physical state	Fluid
Colour:	Yellowish
Odour:	Amine-like
Odour threshold:	Not determined.
<i>Melting point/freezing point:</i> <i>Boiling point or initial boiling point and boiling</i>	Undetermined.
range	212.5 °C
Flammability	Not applicable.
Lower and upper explosion limit	II III
Lower:	1.3 Vol %
Upper:	7.7 Vol %
Flash point:	91 °C
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH at 20 °C	8-9
Viscosity:	0-2
viscosity: Kinematic viscosity	Not determined.
Rinematic viscosity Dynamic:	Not determined.
•	
Solubility	Fully missible
water: Datition coefficient n octanol/water (log value)	Fully miscible. Not determined.
Partition coefficient n-octanol/water (log value)	
Vapour pressure: Denoite and/or relative densite	Not determined.
Density and/or relative density	$0.007 \text{e}/\text{am}^3$
Density at 20 °C:	0.997 g/cm^3
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health an	nd
environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	0.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	25
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
	Void
Flammable liquids Flammable solids	voia Void
Flammable solids	
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void

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• 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:

Inhalative	Acute toxicity Estimate inhalative (4h)	>20 mg/l (Worker)
		>2,000 mg/kg (Worker)
	Acute Toxicity Estimate of ingredient (ATE) oral	>5,000 mg/kg (Worker)

2687-91-4 N-Ethyl-2-Pyrrolidone

Oral LD50 Dermal LD50 3,200 mg/kg (rat) >2,000 mg/kg (rat)

· Serious eye damage/irritation Causes serious eye damage.

· Reproductive toxicity May damage the unborn child. Suspected of damaging fertility.

 \cdot 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:			
2687-91-4 N-Ethyl	2687-91-4 N-Ethyl-2-Pyrrolidone		
LC50 (96h) mg/ltr.	464-999 mg/ltr (Zebrafisch)		
EC50 (48h)	>104 mg/l (daphnia)		
<i>ErC (72h)</i>	>101 mg/l (algae)		
• 12.2 Persistence and degradability No further relevant information available.			
· 12.3 Bioaccumulative potential			
2687-91-4 N-Ethyl-2-Pyrrolidone -0,2			
 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 			

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

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	not regulated	
 14.2 UN proper shipping name ADR, IMDG, IATA 	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
 14.4 Packing group ADR, IMDG, IATA 	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
· UN "Model Regulation":	not regulated	

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.

• National regulations:

• VOC (EU) 0.0 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

H318 Causes serious eye damage. H360Df May damage the unborn child. Suspected of damaging fertility.

- · 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 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Repr. 1A: Reproductive toxicity - Category 1A