## ALLRESIST



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

Page 1/8

Printing date 12.12.2021

Version number 7.0 (replaces version 1.0)

Revision: 12.12.2021

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

- · 1.1 Product identifier
- Trade name: <u>AR 600-549</u>
- Article number: AR 600-549
- **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



Eye Irrit. 2 H319 Causes serious eye irritation.

- 2.2 Label elements
   Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



· Signal word Warning

• Hazard statements

H319 Causes serious eye irritation.

(Contd. on page 2)

Printing date 12.12.2021

Version number 7.0 (replaces version 1.0)

Revision: 12.12.2021

Trade name: AR 600-549

(Contd. of page 1)

<ul> <li>Precautionary state</li> </ul>	<i>tements</i>
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.
P264	Wash thoroughly after handling.
P280	Wear eye protection / face protection.
P305+P351+P33	8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
D227   D212	If my impiration provides, Cat madical adviso/attention

*P337+P313 If eye irritation persists: Get medical advice/attention.* 

#### · 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:
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· Dangerous compone	Dangerous components:				
CAS: 105-53-3	diethyl malonate	♦ Eye Irrit. 2, H319	50-100%		
EINECS: 203-305-9	-				
CAS: 100-66-3	anisole	🚯 Flam. Liq. 3, H226; 🚯 STOT SE 3, H336, EUH066	≤2.5%		
EINECS: 202-876-1		• • • • • •			
• Additional information: 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

- After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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.
- 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 Not required.
- 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).

(Contd. on page 3)

GB

Printing date 12.12.2021

Version number 7.0 (replaces version 1.0)

Revision: 12.12.2021

(Contd. of page 2)

Trade name: AR 600-549

#### · 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 No special precautions are necessary if used correctly.

- Information about fire and explosion protection: No special measures required.
- · 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): 10
- 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

105-53-3 a	105-53-3 diethyl malonate		
Dermal	DNEL Long-term – dermal, systemic effects	1.213 mg/kg_bw/day (Worker)	
		0.607 mg/kg_bw/day (general public)	
Inhalative	DNEL Long-term – inhalation, systemic effects	8.468 mg/m³/day (Worker)	
		2.106 mg/m³/day (general public)	

#### 100-66-3 anisole

Inhalative DNEL Long-term – inhalation, systemic effects 20 mg/m<sup>3</sup>/day (Worker)

#### · PNECs

105-53-3 diethyl malonate	
PNEC Predicted No Effect Concentration, Freshwater	0.0118 mg/ltr (Aquatic organisms)
PNEC short term, sea water	0.00118 mg/l (Aquatic organisms)
PNEC short term, sewage plant	0.108 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	4.62 mg/kg (Aquatic organisms)
PNEC short term soil	0.008557 mg/kg (teresstric organismens)
PNEC short term sea water sediment	0.924 mg/kg (Aquatic organisms)
100-66-3 anisole	
PNEC short term, fresh water	0.027 mg/l (Aquatic organisms)
PNEC short term, sea water	0.0027 mg/l (Aquatic organisms)
PNEC short term, sewage plant	30 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	0.745 mg/kg (Aquatic organisms)
PNEC short term soil	0.133 mg/kg (teresstric organismens)
PNEC short term sea water sediment	0.0745 mg/kg (Aquatic organisms)
	(Contd. on page 4

(Contd. on page 4)

GB

*Printing date 12.12.2021* 

*Version number 7.0 (replaces version 1.0)* 

Revision: 12.12.2021

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Trade name: AR 600-549
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(Contd. of page 3) PNEC short term, intermittent releases 0.27 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: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. 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

## **SECTION 9: Physical and chemical properties**

• 9.1 Information on basic physical and cl	hemical properties	
· General Information		
· Physical state	Fluid	
· Colour:	Colourless	
· Odour:	Ester-like	
• Odour threshold:	Not determined.	
• Melting point/freezing point:	-50 °C	
· Boiling point or initial boiling point and	boiling	
range	199 °C (105-53-3 diethyl malonate)	
· Flammability	Not applicable.	
· Lower and upper explosion limit		
Lower:	1.2 Vol %	
· Upper:	12 Vol %	
· Flash point:	88 °C	
	(Contd.	on page 5)

Printing date 12.12.2021

Version number 7.0 (replaces version 1.0)

Revision: 12.12.2021

Trade name: AR 600-549

	(Contd. of page
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
рН	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic at 20 °C:	2.1 mPas
Solubility	
water at 20 °C:	20.8 g/l
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 40 °C:	1.33 hPa
Density and/or relative density	
Density at 20 °C:	$1.055 \text{ g/cm}^3$
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information Appearance:	
Form:	Fluid
I orm. Important information on protection of health an	
environment, and on safety.	u
Explosive properties:	Duoduct doos not prosont an emplosion har and
Solvent content:	Product does not present an explosion hazard.
	2.0 %
Organic solvents:	
VOC (EC)	2.00 %
Change in condition	Not determined
Evaporation rate	Not determined.
Information with regard to physical hazard classe	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
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	
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.

(Contd. on page 6)

Version number 7.0 (replaces version 1.0)

Revision: 12.12.2021

(Contd. of page 5)

Trade name: AR 600-549

Printing date 12.12.2021

· 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

· LD/LC50	values relevant for classification:				
Oral	Oral Acute Toxicity Estimate of ingredient (ATE) oral >5,000 mg/kg (Worker)				
Dermal	Schätzwerte akuter Toxicität	>2,000 mg/kg (Worker)			
Inhalative	Acute toxicity Estimate inhalative (4h)	>20 mg/l (Worker)			
105-53-3 a	105-53-3 diethyl malonate				
Oral	Oral LD50 15,794 mg/kg (rat)				
Dermal	LD50	>16,960 mg/kg (rabbit)			
100-66-3 a	nisole				
Oral	LD50	2,800 mg/kg (mouse)			
		3,700 mg/kg (rat)			
· Serious ey	e damage/irritation Causes serious eye irritation.	·,			
• 11.2 Infor	mation on other hazards				
· Endocrine disrupting properties					

None of the ingredients is listed.

## **SECTION 12: Ecological information**

·	<i>12.1</i>	<b>Toxicity</b>
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105-53-3 a	liethyl malonate		
	LC50 (96h) mg/ltr	:. 11.8 mg/ltr (Fish)	
	EC50 (48h)	202.3 mg/l (daphnia)	
100-66-3 a	inisole		
Inhalative	LC50 (4h)	>65.1 mg/l (rat)	
	EC50 (48h)	27 mg/l (daphnia)	
	EC50 (72h)	47 mg/l (algae)	
	EC10 (72h)	21 mg/ltr. (algae)	
	NOEC	300 mg/ml (Microorganism)	
12.2 Persis	stence and degrade	ibility	
105-53-3	diethyl malonate 9	99%	
100-66-3 anisole 68 %			

· 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.

(Contd. on page 7)

GB

Printing date 12.12.2021

*Version number 7.0 (replaces version 1.0)* 

Revision: 12.12.2021

#### Trade name: AR 600-549

(Contd. of page 6)

#### • 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.

## **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	
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according instruments	to IMO 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) 21.1 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 (Contd. on page 8)

Printing date 12.12.2021

Version number 7.0 (replaces version 1.0)

Revision: 12.12.2021

#### Trade name: AR 600-549

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