ALLRESIST



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

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Printing date 12.12.2021

Version number 4.0 (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>X AR 600-50/2</u>
- Article number: XAR 600-50/2
- **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

flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



Eye Irrit. 2H319 Causes serious eye irritation.STOT SE 3H336 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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de name: X AR 600-50/2		
Hazard picto	(Contd. of page 1)	
يفد ا		
<u> </u>		
	\mathbf{V}	
GHS02 C	SHS07	
Signal word	Danger	
Hazard-dete	rmining components of labelling:	
propan-2-ol		
Hazard state	ments	
H225 Highly	flammable liquid and vapour.	
H319 Causes	serious eye irritation.	
H336 May ca	use drowsiness or dizziness.	
Precautional	ry 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].	
<i>P304+P340</i>	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305+P351-	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i present and easy to do. Continue rinsing.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/internationa	
	regulations.	
2.3 Other ha		
	3T and vPvB assessment	
PBT: Not ap		
.D.D. Mat an		

• **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
	ethanol	50-100%
EINECS: 200-578-6	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319	
CAS: 67-63-0	propan-2-ol	25-50%
	📀 Flam. Liq. 2, H225; 🚯 Eye Irrit. 2, H319; 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.

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• 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.
- · 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: 10-22°C
- Storage class (TRGS): 3
- 7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Contro	l parameters	
· Ingredient	s with limit values that require monitoring at th	ne workplace:
64-17-5 et	hanol	
WEL Long	g-term value: 1920 mg/m³, 1000 ppm	
67-63-0 pr	opan-2-ol	
	t-term value: 1250 mg/m³, 500 ppm z-term value: 999 mg/m³, 400 ppm	
	z-term value. 999 mg/m , 400 ppm	
· DNELs		
64-17-5 et	hanol	
Dermal	DNEL Long-term – dermal, systemic effects	343 mg/kg_bw/day (Worker)
Inhalative	DNEL Long-term – inhalation, systemic effects	950 mg/m³/day (Worker)
	DNEL Acute - inhalation, local effects	1,900 mg/m³ (Worker)
67-63-0 pr	opan-2-ol	
Oral	DNEL Long-term - oral, systemic effects	26 mg/kg_bw/day (rat)
Dermal	DNEL Long-term – dermal, systemic effects	888 mg/kg_bw/day (rat)
Inhalative	DNEL Long-term – inhalation, systemic effects	500 mg/m³/day (rat)
· PNECs		
64-17-5 ethanol		

04-17-5 Cinunoi	
PNEC short term, fresh water	0.96 mg/l (Aquatic organisms)
PNEC short term, sea water	0.79 mg/l (Aquatic organisms)
PNEC short term, sewage plant	580 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	3.6 mg/kg (Aquatic organisms)
PNEC short term soil	0.63 mg/kg (teresstric organismens)
PNEC short term sea water sediment	2.9 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	2.75 mg/l (Aquatic organisms)
PNEC secondary poisoning	72,000 mg/kg KG/d
67-63-0 propan-2-ol	
PNEC short term, fresh water	140.9 mg/l (Aquatic organisms)
PNEC short term, sea water	140.9 mg/l (Aquatic organisms)
PNEC short term, sewage plant	2,251 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	552 mg/kg (Aquatic organisms)
PNEC short term soil	mg/kg (28)
PNEC short term sea water sediment	552 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	140.9 mg/l (Aquatic organisms)
PNEC secondary poisoning	160 mg/kg KG/d (rat)

· 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 and skin.

Avoid contact with the eyes.

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• 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

General Information Physical state	Fluid	
Colour:	Colourless	
Odour:	Alcohol-like	
Odour threshold:	Not determined.	
Melting point/freezing point:	-114 °C	
Boiling point or initial boiling point and boiling		
range	78 °C (64-17-5 ethanol)	
Flammability	Not applicable.	
Lower and upper explosion limit	11	
Lower:	3.5 Vol % (67-63-0 propan-2-ol)	
Upper:	15 Vol % (64-17-5 ethanol)	
Flash point:	12 °C (67-63-0 propan-2-ol)	
Auto-ignition temperature:	Product is not selfigniting.	
Decomposition temperature:	Not determined.	
pH	Mixture is non-soluble (in water).	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic at 20 °C:	1.19 mPas	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20 °C:	85.5 hPa	

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Density and/or relative density	
Density at 20 °C:	0.79 g/cm^3
Relative density	Not determined.
Bulk density:	789 kg/m^3
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of heal	th and
environment, and on safety.	
Ignition temperature:	363 °C
Explosive properties:	Product is not explosive. However, formation of
	explosive air/vapour mixtures are possible.
Solvent content:	
Organic solvents:	100.0 %
VOC (EC)	100.00 %
Solids content:	0.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard o	classes
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly 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 flamm	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.

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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 classific	cation:
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Oral	Acute Toxicity Estimate of ingredient (ATE) oral	>5,000 mg/kg (Worker)
Dermal	>2,000 mg/kg (Worker)	
Inhalative	Acute toxicity Estimate inhalative (4h)	>20 mg/l (Worker)
64-17-5 et	hanol	
Oral	LD50	7,060 mg/kg (rat)
67-63-0 propan-2-ol		
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Serious eve damage/irritation Causes serious eve irritation.		

Serious eye damage/irritation Causes serious eye irritation.

• STOT-single exposure May cause drowsiness or dizziness. • 11.2 Information on other hazards

• Endocrine disrupting properties

None of the ingredients is listed.

SECTION	12. Eco	logical in	nformation
SLUIION	12. LU	ugicai ii	<i>yormanon</i>

· 12.1 Toxicity

64-17-5 et	hanol	
Inhalative	LC50 (4h)	20,000 mg/l (rat)
	LC50 (96h) mg/ltr.	13,000-15,300 mg/ltr (Fish)
	EC50 (48h)	12,340 mg/l (Daphnia magna)
		5,012 mg/l (daphnia)
	EC50 (72h)	275 mg/l (algae)
	EC50 (48h)	857 mg/ltr. (Invertebrates)
	EC50 (24h)	>10 mg/kg (Invertebrates)
	EC10 (72h)	11.5 mg/ltr. (algae)
	NOEC	>10 mg/ml /21d (Daphnia magna)
		79 mg/ml /10d (Palaemonetes pugio)
		9.6 mg/ml /10d (daphnia)
67-63-0 pr	opan-2-ol	
Inhalative	LC50 (4h)	30 mg/l (rat)
	LC50 (96h) mg/ltr.	9,640 mg/ltr (Fish)
	LC50 (48h) mg/ltr	>100 mg/ltr (Fish, minnows)
	EC50 (48h)	>100 mg/l (Daphnia magna)
		13,299 mg/l (daphnia)
	EC50 (72h)	>100 mg/l (algae)
12.2 Persi	stence and degradal	bility
64-17-5 e	thanol 98 %	
67-63-0 p	ropan-2-ol 95 %	

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• 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.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1987
· 14.2 UN proper shipping name · ADR	1987 ALCOHOLS, N.O.S. (ETHANOL (ETHY ALCOHOL), ISOPROPANOL (ISOPROPY
·IMDG	ALCOHOL), ISOT KOT MODE (ISOT KOT I ALCOHOL)) ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL) ISOPROPANOL (ISOPROPYL ALCOHOL))
·IATA	ALCOHOLS, N.O.S. (ETHANOL, ISOPROPANO (ISOPROPYL ALCOHOL))
14.3 Transport hazard class(es)	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	II
	Not applied blo
· 14.5 Environmental hazards:	Not applicable.
-	Warning: Flammable liquids.
 14.5 Environmental hazards: 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	**

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Stowage Category	В
14.7 Maritime transport in bulk accord instruments	ling to IMO Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	lL
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E
· IMDG	
Limited quantities (LQ)	lL
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1987 ALCOHOLS, N.O.S. (ETHANOL (ETHY
0	ALCOHOL), ISOPROPANOL (ISOPROPYL
	ALCOHOL)), 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) 790.0 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

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

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(Contd. of page 9 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)	е
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	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
	GB