ALLRESIST

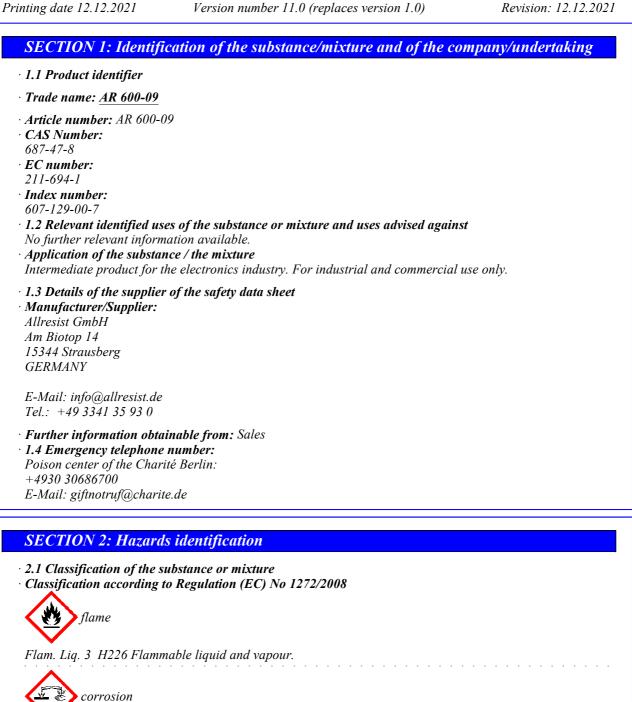


Safety data sheet according to 1907/2006/EC, Article 31

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Eye Dam. 1 H318 Causes serious eye damage.

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GB

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SECTION 3: Composition/information on ingredients

· 3.1 Substances

· CAS No. Description

687-47-8 ethyl (S)-2-hydroxypropionate

· Identification number(s)

· EC number: 211-694-1

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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. 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.

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. Ensure adequate ventilation.
 6.4 Reference to other sections See Section 7 for information on safe handling.
- See Section 7 for information on safe nanating. 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.

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• 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: Not required.

· PNECs

687-47-8 ethyl (S)-2-hydroxypropionate

007-47-0 cmyt (S)-2-nyuroxypropronuc	
PNEC short term, fresh water	0.32 mg/l (Aquatic organisms)
PNEC short term, sea water	0.032 mg/l (Aquatic organisms)
PNEC short term fresh water sediment	1.66 mg/kg (Aquatic organisms)
PNEC short term soil	0.145 mg/kg (Aquatic organisms)
PNEC short term sea water sediment	0.166 mg/kg (Aquatic organisms)
PNEC short term, intermittent releases	3.2 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:*

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.

· 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

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Tightly se

Tightly sealed goggles

SECTION 9: Physical and chemical properties • 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Colourless · Odour: Mild · Odour threshold: Not determined. • *Melting point/freezing point:* -26 °C · Boiling point or initial boiling point and boiling 154.5 °C range · Flammability *Not applicable.* · Lower and upper explosion limit · Lower: 1.5 Vol % · Upper: 11.4 Vol % 53 °C · Flash point: Not determined. • Auto-ignition temperature: Not determined. • Decomposition temperature: Not determined. · pH · Viscosity: $1.23 \text{ mm}^{2/s}$ • Kinematic viscosity at 20 °C 1.9 mPas • Dynamic at 20 °C: · Solubility Fully miscible. · water: Not determined. · Partition coefficient n-octanol/water (log value) 2.4 hPa · Vapour pressure at 20 °C: · Density and/or relative density · Density at 20 °C: 1.0302 g/cm³ Not determined. · Relative density Not determined. · Vapour density • 9.2 Other information · Appearance: · Form: Fluid · Important information on protection of health and environment, and on safety. 400 °C · Ignition temperature: · Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible. · Solvent content: 0.00 % · VOC (EC) · Change in condition Not determined. · Evaporation rate · Information with regard to physical hazard classes Void · Explosives · Flammable gases Void Void · Aerosols Void · Oxidising gases (Contd. on page 6)

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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 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.

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:				
Oral	Acute Toxicity Estimate of ingredient (ATE) oral			
Dermal	Schätzwerte akuter Toxicität	>2,000 mg/kg (Worker)		
Inhalative	Acute toxicity Estimate inhalative (4h)	>20 mg/l (Worker)		
687-47-8 ethyl (S)-2-hydroxypropionate				
Oral	LD50	>5,000 mg/kg (rat)		
Dermal	LD50	>5,000 mg/kg (rat) >5,000 mg/kg (rabbit)		

· Serious eye damage/irritation Causes serious eye damage.

• **STOT-single exposure** May cause respiratory irritation.

• 11.2 Information on other hazards

• Endocrine disrupting properties

Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

687-47-8 ethyl (S)-2-hydroxypropionate

LC50 (96h) mg/ltr. 320 mg/ltr (Fish)

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EC50 (48h) 683 mg/ltr. (daphnia)

• 12.2 Persistence and degradability

687-47-8 ethyl (S)-2-hydroxypropionate 86 %

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) (Assessment by list): 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	UN1192	
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1192 ETHYL LACTATE ETHYL LACTATE	
· 14.3 Transport hazard class(es)		
· ADR, IMDG, IATA		
	2 Elemente liquide	
· Class	3 Flammable liquids. 3	
· Label	5	
· 14.4 Packing group · ADR, IMDG, IATA	III	
· 14.5 Environmental hazards:	Not applicable.	
 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: 	Warning: Flammable liquids. 30 F-E,S-D	
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· Stowage Category	A
• 14.7 Maritime transport in bulk accordi instruments	ing to IMO Not applicable.
Transport/Additional information:	11
· ADR	
· Limited quantities (LQ)	5L
\cdot Excepted quantities ($\widetilde{E}Q$)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
\cdot Excepted quantities (\widetilde{EQ})	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1192 ETHYL LACTATE, 3, III

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)

Substance is not listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

· Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

 \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

· National regulations:

• VOC (EU) 0.0 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.

· 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)

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(Contd. of page 8) 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) 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 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3