



Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 10.10.2022

Version number 9.0

Revision: 10.10.2022

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

- · 1.1 Product identifier
- Trade name: <u>SX AR-PC 5000/41</u>
- · Article number: SX AR-PC 5000/41
- **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.

health hazard

STOT RE 2H373 May cause damage to the hearing organs through prolonged or repeated exposure.Asp. Tox. 1H304 May be fatal if swallowed and enters airways.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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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Printing date 10.10.2022 Version number 9.0 Revision: 10.10.2022 Trade name: SX AR-PC 5000/41 (Contd. of page 1) · Hazard pictograms GHS02 GHS08 · Signal word Danger · Hazard-determining components of labelling: ethylbenzene · Hazard statements H225 Highly flammable liquid and vapour. H373 May cause damage to the hearing organs through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways. H412 Harmful to aquatic life with long lasting effects. · 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.* P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 protection. *P301+P310* IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 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: 100-41-4 EINECS: 202-849-4 *Additional information*: Eon the wording of the listed hazard physics wefer to section 16

• Additional information: For the wording of the listed hazard phrases refer to section 16.

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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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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.
- 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
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. 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. Keep respiratory protective device available.

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Storage:

Sk

· DNELs

Dermal

· PNECs

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• 7.2 Conditions for safe storage, including any incompatibilities

• 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: 15-22°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: 100-41-4 ethylbenzene WEL Short-term value: 552 mg/m³, 125 ppm Long-term value: 441 mg/m³, 100 ppm 100-41-4 ethylbenzene DNEL Long-term – dermal, systemic effects 180 mg/kg bw/day (Worker) Inhalative DNEL Long-term – inhalation, systemic effects 77 mg/m³/day (Worker) DNEL Acute - inhalation, local effects 293 mg/m³ (Worker) 100-41-4 ethylbenzene PNEC short term, fresh water 0.1 mg/l (Aquatic organisms) PNEC short term, sea water 0.01 mg/l (Aquatic organisms) PNEC short term fresh water sediment 13.7 mg/kg (Aquatic organisms) PNEC short term soil 2.68 mg/kg (teresstric organismens) PNEC short term sea water sediment 1.37 mg/kg (Aquatic organisms) PNEC short term, intermittent releases 0.1 mg/l (Aquatic organisms) PNEC secondary poisoning 0.02 mg/kg KG/d (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. Store protective clothing separately.

• 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.

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(Contd. of page 4) 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.

· 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:	Black	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling		
range	136 °C	
Flammability	Highly flammable.	
Lower and upper explosion limit		
Lower:	1 Vol %	
Upper:	7.8 Vol %	
Flash point:	15 °C	
Ignition temperature:	430 °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:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20 °C:	9.5 hPa	
Density and/or relative density		
Density at 20 °C:	0.95 g/cm^3	
Relative density	Not determined.	
Density (@15°C)	Not determined.	
Vapour density	Not determined.	

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9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of healt	th 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:	62.0 %
VOC (EC)	62.00 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard c	lasses
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 flamme	
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

 \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50 (4h) 27.7 mg/l (rat)

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Trade name: SX AR-PC 5000/41

100-41-4 ethylbenzene

 Oral
 LD50
 3,500 mg/kg (rat)

 Dermal
 LD50
 15,400 mg/kg (rabbit)

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

• STOT-repeated exposure May cause damage to the hearing organs through prolonged or repeated exposure.

• Aspiration hazard May be fatal if swallowed and enters airways.

• 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

• •	A	q	u	atic	t0	xic	ity:	

100-41-4 etnyidenz	ene
LC50 (96h) mg/ltr.	11-18 mg/ltr (Oncorhynchus mykiss)
EC50 (48h)	mg/l (daphnia)
EC50 (72h)	2.6-11.3 mg/l (Pseudokirchneriella subcapitata)
EC50 (96h) mg/ltr	1.7-7.6 mg/ltr (Pseudokirchneriella subcapitata)
	96 mg/kg (Microorganism)
EC50 (30min.)	9.68 mg/l (Microorganism)

· 12.2 Persistence and degradability No further relevant information available.

· 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.

· Remark: Harmful to fish

• 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.

Harmful to aquatic organisms

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.

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Trade name: SX AR-PC 5000/41

14.1 UN number or ID number	
ADR, IMDG, IATA	UN1175
14.2 UN proper shipping name	
ADR	1175 ETHYLBENZENE solution
IMDG, IATA	ETHYLBENZENE solution
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	В
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	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)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1175 ETHYLBENZENE SOLUTION, 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

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Trade name: SX AR-PC 5000/41

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

· National regulations:

• VOC (EU) 589.0 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.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

- · 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. 2: Flammable liquids - Category 2 Acute Tox. 4: Acute toxicity - Category 4

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

• * Data compared to the previous version altered.