

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

Printing date 14.03.2013

Version number 2

Revision: 14.03.2013

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

· **1.1 Product identifier**

· Trade name **Renitherm Härter EP 61, Komp.B**
Artikel-Nr.: RE-PRI.52002

· Article number: 401999 audax

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

· Application of the substance / the preparation Hardening agent/ Curing agent

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

AUDAX-Keck GmbH
Weiherstr. 10
75365 Calw / Germany

Tel.: +49.7051.1625.0
Fax: +49.7051.1625.50

INFO: GL / R&D

Tel.: +49.7051.1625.0
Fax: +49.7051.1625.50
info@audax.de

SDB-/MSDS, e-mail:

· **1.4 Emergency telephone number:**

During normal opening times:

Responsible Department: GL / R&D

Tel.: 004970511625 0 Fax: 004970511625 50

poisoning information center Germany: daily 24h

Berlin 030-19240

Bonn 0228-19240

Erfurt 0361-730730

Göttingen 0551-19240

Freiburg 0761-19240

Homburg/Saar 06841 - 19240

Mainz 06131 - 19 240

München 089-19240

Nürnberg 0911-398 2451

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R20/21: Harmful by inhalation and in contact with skin.



Xi; Irritant

R38-41: Irritating to skin. Risk of serious damage to eyes.



Xi; Sensitising

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R43: May cause sensitisation by skin contact.

R10: Flammable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Label elements

Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

Code letter and hazard designation of product:

Xn Harmful

Hazard-determining components of labelling:

Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100
xylene, mixed isomers

Risk phrases:

- 10 Flammable.
- 20/21 Harmful by inhalation and in contact with skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.

Safety phrases:

- 9 Keep container in a well-ventilated place.
- 23 Do not breathe gas/fumes/vapour/spray.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

2.3 Other hazards

Results of PBT and vPvB assessment



- PBT:** Not applicable.
- vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Mixture consisting of the following components with harmless additives.

Dangerous components:

CAS: 68082-29-1 NLP: 500-191-5	Poliaminoamidaddukt  Xi R41  Eye Dam. 1, H318	30-50%
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CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 01-2119486136-34 01-2119555267-33	xylene, mixed isomers ☒ Xn R20/21; ☒ Xi R38 R10 ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	25-30%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1 Reg.nr.: 01-2119484609-23	2-methylpropan-1-ol ☒ Xi R37/38-41 R10-67 ⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	10-12.49%
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100 ☒ Xi R36/38; ☒ Xi R43 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-12.49%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene ☒ Xn R20; ☒ F R11 ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332	1.0-2.49%

· **SVHC**

Substances of very high concern (SVHC) according to REACH, Article 57

- NONE

· **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information**

Take affected persons out of danger area and instruct to lie down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

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

· **After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

· **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, sand, extinguishing powder. Do not use water.

Alcohol-resistant foam

· **For safety reasons unsuitable extinguishing agents**

Water.

Water with a full water jet.

· **5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire

Nitrogen oxides (NO_x)

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- Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Put on breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class**
LGK VCI/D
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- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

1330-20-7 xylene, mixed isomers

WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOELV (European Union)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm

78-83-1 2-methylpropan-1-ol

WEL (Great Britain)	Short-term value: 231 mg/m ³ , 75 ppm Long-term value: 154 mg/m ³ , 50 ppm
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100-41-4 ethylbenzene

WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
IOELV (European Union)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm

· DNELs

1330-20-7 xylene, mixed isomers

Oral	DNEL	1.6 mg/kg bw/d (consumer long time)
Dermal	DNEL	180 mg/kg bw/d (worker long time) 108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	289 mg/m ³ (worker long time) 14.8 mg/m ³ (consumer long time) 174 mg/m ³ (consumer short time)

78-83-1 2-methylpropan-1-ol

Oral	DNEL	25 mg/kg bw/d (consumer long time)
Inhalative	DNEL	310 mg/m ³ (worker long time) 55 mg/m ³ (consumer long time)

100-41-4 ethylbenzene

Dermal	DNEL	180 mg/kg bw/d (worker long time) 108 mg/kg bw/d (consumer long time)
Inhalative	DNEL	77 mg/m ³ (worker long time) 289 mg/m ³ (worker short time) 174 mg/m ³ (consumer short time)

· PNECs

1330-20-7 xylene, mixed isomers

PNEC	12.46 mg/L (sediment fresh water) 12.46 mg/L (sediment sea water) 6.58 mg/L (sewage) 0.327 mg/L (sea water) 0.327 mg/L (fresh water)
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78-83-1 2-methylpropan-1-ol

PNEC	1.52 mg/L (sediment fresh water) 0.152 mg/L (sediment sea water)
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10 mg/L (sewage)
0.04 mg/L (sea water)
0.4 mg/L (fresh water)

· Ingredients with biological limit values:

1330-20-7 xylene, mixed isomers

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· **Breathing equipment:**



Only during spraying without adequate removal by suction.

· **Protection of hands:**



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

To avoid skin problems reduce the wearing of gloves to the required minimum.

Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.

· **Material of gloves**

Fluorocarbon rubber (Viton)

Recommended thickness of the material:

≥ 0,6 mm

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**

Value for the permeation: Level ≥

6

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

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 protection:**

Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· Form:	Fluid
· Colour:	According to product specification
· Smell:	Characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not applicable· **Change in condition**

· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	108 °C

· **Flash point:** 24 °C· **Inflammability (solid, gaseous)** Not applicable.· **Ignition temperature:** 390 °C· **Decomposition temperature:** Not determined· **Self-inflammability:** Product is not selfigniting.· **Danger of explosion:** Product is not explosive. However, formation of explosive steam/air mixtures is possible.· **Critical values for explosion:**

· Lower:	1.0 Vol %
· Upper:	12.0 Vol %

· **Oxidizing properties** Not applicable· **Vapor pressure at 20 °C:** 5 hPa

· Density at 20 °C	0.93 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined
· Evaporation rate	Not determined.

· **Solubility in / Miscibility with**· **Water:** Not miscible or difficult to mix· **Partition coefficient (n-octanol/water):** Not determined· **Viscosity:**

· dynamic:	Not determined.
· kinematic at 20 °C:	145 s (DIN 53211/4)

· **Solvent content:**

· Organic solvents:	41.0 %
· Water:	0.0 %
· Solids content: (calculated)	59.0 %

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· **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **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:** None

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

1330-20-7 xylene, mixed isomers

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rbt)
Inhalative	LC50/4 h	>20 mg/L (rat)

78-83-1 2-methylpropan-1-ol

Oral	LD50	2830..3350 mg/kg (rat)
Dermal	LD50	2000..2460 mg/kg (rbt)
Inhalative	LC50/4 h	18.18 mg/L (rat)

25068-38-6 Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100

Oral	LD50	>2000 mg/kg (rat)
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100-41-4 ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rbt)

- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible by skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful
Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

1330-20-7 xylene, mixed isomers

EC50/24h	10<x<100 mg/L (Daphnia magna)
LC50/48h	8.5 mg/L (Crustacea)
LC50/96h	1<x<10 mg/L (Piscis)

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78-83-1 2-methylpropan-1-ol

EC50/48h	1100 mg/L (<i>Daphnia magna</i>)
EC50/72h	1799 mg/L (<i>Pseudokirchneriella subcapitata</i>)
IC50/48h	>1000 mg/L (<i>Pseudokirchneriella subcapitata</i>)
LC50/96h	1430 mg/L (<i>Piscis</i>)
NOEC(21d)	20 mg/L (<i>Daphnia magna</i>)

25068-38-6 Epoxidharze (Bisphenol-A-Epichlorhydrin) 700 < MG <1100

EC50/48h	>100 mg/L (<i>Daphnia magna</i>)
EC50/96h	>100 mg/L (<i>Pseudokirchneriella subcapitata</i>)
LC50/96h	>100 mg/L (<i>Piscis</i>)

100-41-4 ethylbenzene

EC50/48h	2.97 mg/L (<i>Daphnia magna</i>)
LC50/96h	4.2 mg/L (<i>Oncorhynchus mykiss</i>) 10<x<100 mg/L (<i>Piscis</i>)

- **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.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Hand over to disposers of hazardous waste.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**

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· ADR	Void

	>450 L = UN1263
· ADN	Void
· IMDG	Void

	> 30 L = UN1263
· IATA	UN1263


· **14.2 UN proper shipping name**

· ADR	> 450 L = PAINT

	≤ 30 L Void
· ADN	Void
· IMDG	-

	> 30 L = PAINT
· IATA	PAINT

· **14.3 Transport hazard class(es)**

· ADR	Void
· Class	-----
	>450 L = 3
· ADN/R Class:	Void
· IMDG	Void
· Class	-----
	> 30 L = 3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3

· **14.4 Packing group**

· ADR	Void

	>450 L = III
· IMDG	Void

	> 30 L =

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·	III
· IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· Segregation groups	N/A
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Remarks:	Receptacles ≤ 450 litres: "transport acc. ADR 2.2.3.1.5"
· IMDG	
· Remarks:	Receptacles less or equal 30 litres: "transport acc. IMDG-code 2.3.2.5" Receptacles > 30 Liter: Ems-No. F-E,S-E
· UN "Model Regulation":	-

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- National regulations
- Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC-EU (1999/13/EG): 41.06 %

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- R10 Flammable.
- R11 Highly flammable.
- R20 Harmful by inhalation.
- R20/21 Harmful by inhalation and in contact with skin.
- R36/38 Irritating to eyes and skin.
- R37/38 Irritating to respiratory system and skin.

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- R38 Irritating to skin.
 R41 Risk of serious damage to eyes.
 R43 May cause sensitisation by skin contact.
 R67 Vapours may cause drowsiness and dizziness.

· **Department issuing data specification sheet:** Responsible Department: GL / R&D

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· *** Data compared to the previous version altered.**

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