

Tel. +49(0)911-642960

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

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

· 1.1 Product identifier

· Trade name: Akepox 3000 Component B

· Article number: 10638B, 10561B, 10562B, 10575B

· UFI: W4S1-30VW-Y001-HTKJ

1.2 Relevant identified uses of the substance or mixture and

uses advised againstNo further relevant information available.

· Application of the substance / the

<u>mixture</u> Epoxy resin adhesive

Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable

from: Laboratory

· 1.4 Emergency telephone

<u>number:</u> Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 Hazard pictograms The product is classified and labelled according to the CLP regulation.





GHS05 GHS07

· <u>Signal word</u> Danger

· Hazard-determining components of

labelling: reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane

with hydrogen sulfide

2,4,6-tris(dimethylaminomethyl)phenol

Hazard statements H315 Causes skin irritation.

H318 Causes serious eye damage. H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary 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.

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

(Contd. on page 2)



Page 2/10

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 1)

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/

· 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: 72244-98-5	reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-	50-100%
	EC number: 701-196-7	epoxypropane with hydrogen sulfide	
	Reg.nr.: 01-2120118957-46-0000	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	
ŀ	CAS: 90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	1-5%
	EINECS: 202-013-9	Skin Corr. 1C, H314; Eye Dam. 1, H318	
١	Index number: 603-069-00-0	Skin Sens. 1, H317	
	Reg.nr.: 01-2119560597-27-xxxx	Aquatic Chronic 3, H412	
	· 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

· General information: Immediately remove any clothing soiled by the product.

No special measures required.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

Immediately wash with water and soap and rinse thoroughly. · After skin contact:

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

· 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 Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Wear fully protective suit. · Protective equipment:

Wear self-contained respiratory protective device.

(Contd. on page 3)



Page 3/10

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

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 2)

system.

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

Not required.

• 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.

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).

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 13 for disposal information. No dangerous substances are released.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

<u>handling</u> No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· 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:

Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Further information about stancer

Not required.

Further information about storage

conditions:

None.

· Storage class:

12

· 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

72244-98-5 reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide

Oral	DNEL (Langzeit-wiederholt)	1.9 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	2.7 mg/kg bw/day (ARB)
		1.61 mg/kg bw/day (BEV)

(Contd. on page 4)



Page 4/10

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 3)

Inhalative DNEL (Langzeit-wiederholt) 22 mg/m³ Air (ARB) 6.52 mg/m3 Air (BEV)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Inhalative DNEL (Langzeit-wiederholt) 0.31 mg/m³ Air (ARB)

·PNECs

72244-98-5 reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide

PNEC (wässrig) 10 mg/l (KA)

0.007 mg/l (MW) 0.07 mg/l (SW)

PNEC (fest) 0.023 mg/kg Trockengew (BO)

0.032 mg/kg Trockengew (MWS) 0.322 mg/kg Trockengew (SWS)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

PNEC (wässrig) 0.2 mg/l (KA)

0.0084 mg/l (MW) 0.084 mg/l (SW) 0.84 mg/I (WAS)

· Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Hand protection

· Appropriate engineering controls No further data; see item 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic

Do not eat, drink, smoke or sniff while working. measures:

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product. Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols. Not necessary if room is well-ventilated.

· Respiratory protection: Short term filter device:

Filter A/P2

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. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

Kresto Classic (http://debstoko.com)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (http://www.stoko.com)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL

GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH,



Page 5/10

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 4)

Germany, 36124 Eichenzell, internet: http://www.kcl.de).



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

Lilles, rates of ulliusion and

· <u>Material of gloves</u> Butyl rubber, BR

Nitrile rubber, NBR Chloroprene rubber, CR

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

Value for the permeation: Level \leq 6, 480 min

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are

suitable:

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art No. 730, 731, 732, 733)

Dermatril (Art No. 740, 741, 742)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

 As protection from splashes gloves made of the following materials are

suitable:

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733) Dermatril (KCL, Art No. 740, 741, 742)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

· Not suitable are gloves made of

the following materials:

Leather gloves

Strong material gloves

· Eye/face protection Goggles recommended during refilling

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

Colour:
 Odour:
 Melting point/freezing point:
 Colourless
 Characteristic
 Undetermined.

<u>Boiling point or initial boiling point and boiling range</u>
 <u>Flash point:</u> Undetermined.
 Not applicable.

(Contd. on page 6)



(Contd. of page 5)

Page 6/10

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

· Ignition temperature: 370 °C

PH Not determined.
Not applicable

· Viscosity:

· Kinematic viscosity
· Dynamic:

Not determined.

Not determined.

· Solubility

water: Fully miscible.Vapour pressure: Not determined.

· Density and/or relative density

Density at 20 °C:

· 9.2 Other information

· Appearance:

· <u>Form:</u> Pasty

Important information on protection of health and

environment, and on safety.

· <u>Auto-ignition temperature:</u> Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· Solids content: 95.8 %

· Information with regard to physical hazard classes

· Explosives Void

· Flammable gases Void

· Aerosols Void

· Oxidising gases Void · Gases under pressure 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

· <u>10.1 Reactivity</u> 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 Reacts with acids.

· <u>10.4 Conditions to avoid</u> No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

(Contd. on page 7)



Page 7/10

products:

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

· 10.6 Hazardous decomposition

(Contd. of page 6)

SECTION 11: Toxicological information

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

Based on available data, the classification criteria are not met. · Acute toxicity

Irritant gases/vapours

· LD/LC50 values relevant for classification:

72244-98-5 reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with hydrogen sulfide

Oral	LD50	2,600 mg/kg (rat)
Dermal	LD50	>10,200 mg/kg (rabbit)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

LD50 2,169 mg/kg (rat) Oral Dermal LD50 >971 mg/kg (rat)

· Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation Causes serious eye damage. · Respiratory or skin sensitisation May cause an allergic skin reaction.

· Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. · Carcinogenicity Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. · STOT-single exposure · STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity Aquatic toxicity.

- Addition to Monty.
72244-98-5 reaction products of pentaerythritol, propoxylated and 1-chloro-2,3-epoxypropane with
hydrogen sulfide

	>1,000 mg/l (BES)
EC50/48h	12 mg/l (daphnia magna)
NOEC/21d	3.5 mg/l (daphnia magna)
EC50/72h	>733 mg/l (Desmodesmus subspicatus)
LC50/96h	87 mg/l (Zebrabärbling)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

	718 mg/l (Palaemonetas)
LC50/24h	222 mg/l (Oncorhynchus mykiss)
ErC50/72h	84 mg/l (green alge)
NOELR/72h	6.25 mg/l (green alge)
LC50/96h	175 mg/l (Cyprinus carpio)
	718 mg/l (daphnia magna)
LC50/72h	84 mg/l (Scenedesmus subspicatus

· 12.2 Persistence and

No further relevant information available. degradability · 12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 8)



Page 8/10

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

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 7)

• <u>12.4 Mobility in soil</u> No further relevant information available.

12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
 ∨PvB: Not applicable.

12.6 Endocrine disrupting

properties
12.7 Other adverse effects

The product does not contain substances with endocrine disrupting properties.

· Additional ecological information:

· General notes: Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Smaller quantities can be disposed of with household waste.

· European	· European waste catalogue		
	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS		
20 01 00	separately collected fractions (except 15 01)		
20 01 27*	paint, inks, adhesives and resins containing hazardous substances		

· Uncleaned packaging:

Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· <u>14.1 UN number or ID number</u> · <u>ADR, ADN, IMDG, IATA</u>	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· <u>ADR, ADN, IMDG, IATA</u> · <u>Class</u>	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according instruments	to IMO Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void
	(Contd. on page

Contd. on page 9



Page 9/10

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 8)

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances -

ANNEX I None of the ingredients is listed.

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · National regulations:
- · Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be

observed.

· <u>Waterhazard class:</u> Water hazard class 1 (Self-assessment): slightly hazardous for water.

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

None of the ingredients is listed.

· VOC EU 0.0 g/l

15.2 Chemical safety

<u>assessment:</u> A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS:Contact:LaboratoryElke Hake

Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de

· Date of previous version: 12.12.2022

· Version number of previous

version:

2

· 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)

ler (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

(Contd. on page 10)



Page 10/10

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

Printing date 12.12.2022 Version number 3 (replaces version 2) Revision: 12.12.2022

Trade name: Akepox 3000 Component B

(Contd. of page 9)

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)

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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

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

11-