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# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

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

· 1.1 Product identifier

· Trade name: Akepox 2005 Laminating Resin 3+3

**Component B** 

· Article number: 13675, 13676, 13677, 12207 · UFI: VG24-Q0FT-G009-6GU5

· 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

Epoxy resin adhesive

· 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

number: 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

H302 Harmful if swallowed. Acute Tox. 4

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

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

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aguatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

#### · 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 Hazard pictograms









GHS05 GHS07 GHS08 GHS09

· Signal word Danger

Hazard-determining components of

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3labelling:

epoxypropane, reaction products with 3-aminomethyl-3,5,5-

trimethylcyclohexylamine

3-aminomethyl-3,5,5-trimethylcyclohexylamine

4-nonylphenol, branched

Benzylalkohol

N-(3-(trimethoxysilyl)propyl)ethylenediamine

Harmful if swallowed. · Hazard statements H302

> H314 Causes severe skin burns and eye damage.

(Contd. on page 2)



Page 2/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

Trade name: /	Akepox 2005	5 Laminating Resin 3+3
	•	_

Component B

(Contd. of page 1)

May cause an allergic skin reaction. H317

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Very toxic 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.

Read carefully and follow all instructions. P103

Do not breathe vapours. P260

Avoid release to the environment. P273

Wear protective gloves/protective clothing/eye protection/face P280

protection/hearing protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel P301+P312

unwell.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower].

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

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

P310 Immediately call a POISON CENTER/doctor.

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

Store locked up. P405

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:

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

· Determination of endocrine-disrupting properties

84852-15-3 4-nonylphenol, branched List I 69-72-7 salicylic acid List II: III

#### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

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

· Dangerous components:		
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-0000		12.5-25%
CAS: 38294-64-3 NLP: 500-101-4 Reg.nr.: 01-2119965165-33	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	50-100%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9 Reg.nr.: 01-2119514687-32-0000	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1A, H317 Aquatic Chronic 3, H412 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	<12.5%
	(Cor	itd. on page



Page 3/16

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

Component B

EINECS: 284-325-5 Index number: 601-053-00-8 Reg.nr.: 01-2119510715-45-xxxx  CAS: 69-72-7 EINECS: 200-712-3 Index number: 607-732-00-5 Reg.nr.: 01-2119486984-17  CAS: 1760-24-3 EINECS: 217-164-6  EVEN Dam. 1, H318  Repr. 2, H361fd Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Acute Tox. 4, H302  1-5 Repr. 2, H361fd Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Acute Tox. 4, H302  1-5 Eye Dam. 1, H318			(Contd. of page 2)
Index number: 601-053-00-8 Reg.nr.: 01-2119510715-45-xxxx Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Acute Tox. 4, H302  CAS: 69-72-7 EINECS: 200-712-3 Index number: 607-732-00-5 Reg.nr.: 01-2119486984-17 CAS: 1760-24-3 EINECS: 217-164-6  Index number: 607-732-00-5 Reg.nr.: 01-2119486984-17  CAS: 1760-24-3 EVED Dam. 1, H318  Reg.nr.: 1, H318  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Acute Tox. 4, H302  1-5 Eve Dam. 1, H318	CAS: 84852-15-3	4-nonylphenol, branched	1-5%
EINECS: 200-712-3 Repr. 2, H361d Eye Dam. 1, H318 Reg.nr.: 01-2119486984-17 Acute Tox. 4, H302  CAS: 1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine 1-5 EINECS: 217-164-6 Eye Dam. 1, H318	Index number: 601-053-00-8	Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	
EINECS: 217-164-6 Eye Dam. 1, H318	EINECS: 200-712-3 Index number: 607-732-00-5	Repr. 2, H361d Eye Dam. 1, H318	1-5%
vPvB	0.11.11.11	Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335	1-5%

·SVHC

84852-15-3 4-nonylphenol, branched

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: Take affected persons out into the fresh air.

Position and transport stably in side position.

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 inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for

transportation.

· After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

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

doctor.

· After swallowing: Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

 4.2 Most important symptoms and effects, both acute and

delayed

Breathing difficulty

Headache Dizziness Dizziness Nausea

<u>Hazards</u> Danger of impaired breathing.

• 4.3 Indication of any immediate medical attention and special

**treatment needed** If swallowed, gastric irrigation with added, activated carbon.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from

**the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.

(Contd. on page 4)



Page 4/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

Trade name: Akepox 2005 Laminating Resin 3+3

**Component B** 

(Contd. of page 3)

In case of fire, the following can be released:

Carbon monoxide (CO) Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

· Protective equipment: Wear fully protective suit.

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

· Additional information Collect contaminated fire fighting water separately. It must not enter the sewage

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

<u>emergency procedures</u> Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:** Do not allow to penetrate the ground/soil.

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:** Dispose of the material collected according to regulations.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

• <u>6.4 Reference to other sections</u> 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** Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

<u>explosion protection:</u> No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

Prevent any seepage into the ground.

· Information about storage in one

<u>common storage facility:</u> Store away from oxidising agents.

Store away from foodstuffs.

(Contd. on page 5)



Page 5/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

Component B

(Contd. of page 4)

· Further information about storage

conditions: Store receptacle in a well ventilated area.

Keep container tightly sealed.

· Storage class: 8 A

• **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

workplace		e product does not contain any relevant quantities of materials with chit les that have to be monitored at the workplace.
DNELs		
38294-64-		enol, oligomeric reaction products with 1-chloro-2,3-epoxypropan aminomethyl-3,5,5-trimethylcyclohexylamine
Dermal	DNEL ( Langzeit-wiederholt)	0.14 mg/kg bw/day (ARB)
Inhalative	DNEL (Langzeit-wiederholt)	0.493 mg/m³ Air (ARB)
100-51-6 E	3enzylalkohol	
Oral	DNEL (Kurzzeit-akut)	20 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	4 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	40 mg/kg bw/day (ARB)
		20 mg/kg bw/day (BEV)
	DNEL ( Langzeit-wiederholt)	8 mg/kg bw/day (ARB)
		4 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	110 mg/m³ Air (ARB)
		27 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	22 mg/m³ Air (ARB)
		5.4 mg/m³ Air (BEV)
2855-13-2	3-aminomethyl-3,5,5-trimet	hylcyclohexylamine
Oral	DNEL (Kurzzeit-akut)	0.3 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	0.073 mg/m³ Air (ARB)
	DNEL (Langzeit-wiederholt)	0.073 mg/m³ Air (ARB)
84852-15-	3 4-nonylphenol, branched	
Dermal	DNEL ( Langzeit-wiederholt)	7.5 mg/kg bw/day (ARB)
	DNEL (Langzeit-wiederholt)	0.5 mg/m³ Air (ARB)
	alicylic acid	
Oral	DNEL (Kurzzeit-akut)	4 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	1 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	2 mg/kg bw/day (ARB)
		1 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	16 mg/m³ Air (ARB)
		0.2-4 mg/m³ Air (BEV)
	N-(3-(trimethoxysilyl)propy	·
Oral	DNEL (Langzeit-wiederholt)	2.5 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	5 mg/kg bw/day (ARB)

- EU



Page 6/16

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Version number 5 Printing date 21.06.2024 Revision: 21.06.2024

Printing date 2	21.06.2	2024	version number 5	Revision: 21.06.2024
Trade name: Akepox 2005 Laminating Resin 3+3 Component B				
				(Contd. of page 5)
			17 mg/kg bw/day (BEV)	, , , , ,
	DNEL	( Langzeit-wiederholt)	5 mg/kg bw/day (ARB)	
			2.5 mg/kg bw/day (BEV)	
Inhalative	DNEL	(Langzeit-wiederholt)	35.5 mg/m³ Air (ARB)	
			8.7 mg/m³ Air (BEV)	
· PNECs				
38294-64-			enol, oligomeric reaction produceminomethyl-3,5,5-trimethylcyclor	cts with 1-chloro-2,3-epoxypropane,
PNEC (wä		10 mg/l (KA)	<u> </u>	
`	σ,	0.00111 mg/l (MW)		
		0.0111 mg/l (SW)		
		0.111 mg/l (WAS)		
PNEC (fes	st)	864 mg/kg Trockenge	w (BO)	
`	,	432 mg/kg Trockenge		
		4,320 mg/kg Trockeng	,	
100-51-6 E	Benzy	, , ,	,	
		39 mg/l (KA)		
,	σ,	0.1 mg/l (MW)		
		1 mg/l (SW)		
		2.3 mg/l (WAS)		
PNEC (fes	st)	0.456 mg/kg Trockeng	iew (BO)	
,	,	0.527 mg/kg Trockeng	• •	
	5.27 mg/kg Trockengew (SWS)			
2855-13-2	3-ami	inomethyl-3,5,5-trimet	hylcyclohexylamine	
PNEC (wä	issrig)	3.18 mg/l (KA)		
		0.006 mg/l (MW)		
		0.06 mg/l (SW)		
		0.23 mg/l (WAS)		
PNEC (fes	st)	1.121 mg/kg Trockeng	ew (BO)	
` ,		0.578 mg/kg Trockeng	ew (MWS)	
	5.784 mg/kg Trockengew (SWS)			
84852-15-3 4-nonylphenol, branched				
PNEC (wä	issrig)	0.000527 mg/l (MW)		
		0.000614 mg/l (SW)		
69-72-7 salicylic acid				
PNEC (wä	issrig)	162 mg/l (KA)		
		0.02 mg/l (MW)		
		0.2 mg/l (SW)		
PNEC (fes	st)	0.166 mg/kg Trockeng	• •	
		0.142 mg/kg Trockeng	ew (MWS)	
		1.42 mg/kg Trockenge	w (SWS)	
		(trimethoxysilyl)propy	l)ethylenediamine	
PNEC (wä	issrig)	25 mg/l (KA)		
		0.0062 mg/l (MW)		
				(Contd. on page 7)



Page 7/16

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

Trade name: Akepox 2005 Laminating Resin 3+3

**Component B** 

(Contd. of page 6)

0.062 mg/l (SW)

0.62 mg/l (WAS)

PNEC (fest) 0.0075 mg/kg Trockengew (BO)

0.005 mg/kg Trockengew (MWS) 0.05 mg/kg Trockengew (SWS)

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 section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic

measures: Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

· Respiratory protection: Not necessary if room is well-ventilated.

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, 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

(Contd. on page 8)



Page 8/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

**Component B** 

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

(Contd. of page 7)

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  $\leq$  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:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Chloroprene rubber, CR

Camapren (KCL, Art\_No. 720, 722, 726)

· Not suitable are gloves made of

the following materials:

Natural rubber, NR Leather gloves

Strong material gloves

· Eye/face protection

Tightly sealed goggles

· <u>Body protection:</u> 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:
 Boiling point or initial boiling point and boiling range

Yellow

 Characteristic
 Undetermined.
 205 °C

· Lower and upper explosion limit

 · Lower:
 1.2 Vol %

 · Upper:
 13 Vol %

 · Flash point:
 101 °C

 · Auto-ignition temperature:
 380 °C

 · Decomposition temperature:
 > 250 °C

 · pH
 Not determ

<u>H</u> Not determined. Not applicable

· Viscosity:

✓ Kinematic viscosity
 ✓ Dynamic at 20 °C:
 Not determined.
 5,000 mPas

Solubility

· water: Not miscible or difficult to mix.

(Contd. on page 9)



Page 9/16

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

Trade name: Akepox 2005 Laminating Resin 3+3

**Component B** 

(Contd. of page 8)

· Vapour pressure at 20 °C: 0.1 hPa

· Density and/or relative density

· Density at 20 °C: 1.01 g/cm<sup>3</sup>

9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

 Ignition temperature: Product is not selfigniting.

 Explosive properties: Product does not present an explosion hazard.

· Solvent content:

12.8 % · Organic solvents: · Solids content: 83.0 %

· Information with regard to physical hazard classes

· Explosives Void · Flammable gases Void · Aerosols Void Oxidising gases 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 Void Oxidising liquids Oxidising solids Void Void Organic peroxides Void Corrosive to metals Void

· Desensitised explosives

# **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 and stored according to specifications.

· 10.3 Possibility of hazardous

reactions Strong exothermic reaction with acids. Reacts with strong oxidising agents.

· 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition

products: Corrosive gases/vapours

#### **SECTION 11: Toxicological information**

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

· Acute toxicity Harmful if swallowed.

· <u>LD/LC50</u> v	values relevant f	or classification:
Oral	LD50	>400 mg/kg (rat)

(Contd. on page 10)



Page 10/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

Trade name: Akepox 2005 Laminating Resin 3+3

**Component B** 

		(Contd. of pa
38294-64-		ylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropar ducts with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
	Benzylalkohol	
Oral	LD50	1,040 mg/kg (mouse)
<b>.</b>		1,040 mg/kg (rabbit)
		1,620 mg/kg (rat)
	NOEL	400 mg/kg (rat)
	NOAEL	200 mg/kg (mouse)
		1,045 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative		1,000 ppm (rat)
milalativo	LC50/4 h	>4.178 mg/l (rat) (OECD 403)
	LC50/48h	360 mg/l (daphnia magna)
	2000/4011	645 mg/l (goo)
2855-13-2	3-aminomothy	vI-3,5,5-trimethylcyclohexylamine
Oral	LD50	1,030 mg/kg (ATE)
Olai	LD30	1,030 mg/kg (ATE)
	NOAFI -Werte	>250 mg/kg (rat)
Dermal	LD50	1,840 mg/kg (rabbit)
Demia	2000	>2,000 mg/kg (rat)
Inhalative	I C50/4 h	>5.01 mg/l (rat)
	3 4-nonylphen	
Oral	LD50	1,210 mg/kg (rat)
Dermal	LD50	2,031-2,831 mg/kg (rabbit)
Inhalative		3.636 mg/l (mouse)
	alicylic acid	o.ooo mg/i (mouse)
Oral	LD50	891 mg/kg (rat)
O I GI		250 mg/kg (rat) (OECD 416)
Dermal	LD50	>2,000 mg/kg (rabbit)
Domina	LC50/48h	90 mg/l (Leuciscus idus)
1760-24-3		xysilyl)propyl)ethylenediamine
Oral	LD50	2,995 mg/kg (rat)
O I GI	NOEL	≥500 mg/kg (rat) (OECD 422)
	NOAEL	≥500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative		1.49 mg/l (rat)
	sion/irritation	Causes severe skin burns and eye damage.

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

Suspected of damaging fertility. Suspected of damaging the unborn child. Reproductive toxicity

STOT-single exposure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. · STOT-repeated exposure

(Contd. on page 11)



Page 11/16

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Version number 5 Printing date 21.06.2024 Revision: 21.06.2024

Trade name: Akepox 2005 Laminating Resin 3+3 Component B

(Contd. of page 10)

· Aspiration hazard

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

11.2 Information on other hazards

· Endocrine d	isrupting properties	
84852-15-3	4-nonylphenol, branched	List I
69-72-7	salicylic acid	List II; III

# **SECTION 12: Ecological information**

## · 12.1 Toxicity

Aquatic toxic 38294-64-3 4	4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropan reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
EC50	>1,000 mg/l (BES)
EL50/48h	11.1 mg/l (daphnia magna) (OECD 202)
EL50/72h	79.4 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LL50/96h	70.7 mg/l (Oncorhynchus mykiss) (OECD 203)
EC50/72h	11.3 mg/l (algae)
100-51-6 Be	nzylalkohol
EC50/24h	55-400 mg/l (daphnia magna)
EC50/96h	640 mg/l (Scenedesmus pluvialis)
EC50	2,100 mg/l (BES) (OECD 209)
	79 mg/l (Scenedesmus quadricauda)
EC10/16h	658 mg/l (pseudomonas putida)
EC50/48h	230 mg/l (daphnia magna) (OECD 202)
ErC50/72h	770 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC0	640 mg/l (Scenedesmus quadricauda)
EC50/16h	658 mg/l (pseudomonas putida)
EC50/30min	71.4 mg/l (Photobac. phosphoreum)
	400 mg/l (pseudomonas putida)
IC5/96h	640 mg/l (Scenedesmus quadricauda)
NOEC	310 mg/kg (Pseudokirchneriella subcapitata) (OECD 201)
NOEC/21d	51 mg/l (daphnia magna) (OECD211)
EC50/72h	770 mg/l (algae) (OECD 201)
	500 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
LC50/96h	645 mg/l (goo)
	10 mg/l (lepomis macrochirus)
	8.9 mg/l (Oncorhynchus mykiss)
	460 mg/l (Pimephales promelas) (EPA OPP 72-1)
2855-13-2 3-	aminomethyl-3,5,5-trimethylcyclohexylamine
EC50/24h	44 mg/l (daphnia magna)
LC 0/96h	70 mg/l (piscis)
EC10/18h	1,120 mg/l (pseudomonas putida)
EC50/48h	23 mg/l (daphnia magna) (OECD TG 202)
ErC50/72h	>50 mg/l (Scenedesmus subspicatus) (EG 88/302)
NOEC/21d	3 mg/l (daphnia magna) (OECD 202)



Page 12/16

# Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

Filling date 21.	Version number 5	1\cvisio11. 21.00.2024		
	kepox 2005 Laminating Resin 3+3 Omponent B			
		(Contd. of page 11)		
EC10	11.2 mg/l (Desmodesmus subspicatus)			
EC50/72h	37 mg/l (algae) (EG 88/302)			
	>50 mg/l (Desmodesmus subspicatus)			
	37 mg/l (Scenedesmus subspicatus)			
LC50/96h	110 mg/l (Brachydanio rerio) (EG 84/449)			
	110 mg/l (Leuciscus idus) (EG 84/449)			
84852-15-3	4-nonylphenol, branched			
EC50/96h	0.41 mg/l (algae)			
EC50/48h	0.085 mg/l (daphnia magna)			
NOEC/21d	0.024 mg/l (daphnia magna)			
EC50/72h	0.33 mg/l (Scenedesmus subspicatus)			
LC50/96h	0.05 mg/l (piscis) (EPA-660-75-009)			
	0.128 mg/l (Pimephales promelas)			
69-72-7 salid	cylic acid			
EC50	380 mg/l (BES) (OECD 209)			
LC50/24h	105-230 mg/l (daphnia magna)			
EC50/48h	870 mg/l (daphnia magna) (OECD 202)			
EC50/16h	380 mg/l (bacteria)			
NOEC/21d	10 mg/l (daphnia magna) (OECD 202 II)			
EC50/72h	>100 mg/l (algae) (OECD 201)			
LC50/96h	1,370 mg/l (piscis) (OECD 203)			
	1,380 mg/l (pimephales promelas)			
1760-24-3 N	-(3-(trimethoxysilyl)propyl)ethylenediamine			
EC50	435 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)			
	67 mg/l (pseudomonas putida) (DIN 38412 part 8)			
IC50/72h	8.8 mg/l (algae) (OECD 201)			
EC50/48h	81 mg/l (daphnia magna)			
ErC50/72h	8.8 mg/l (Pseudokirchneriella subcapitata) (OECD 201)			
EC50/16h	67 mg/l (pseudomonas putida)			
NOEC	3.1 mg/kg (algae) (OECD 201)			
	≥1,000 mg/kg (Eisenia fetida ( Regenwürmer)) (OECD 207)			
NOELR/72h	3.1 mg/l (Pseudokirchneriella subcapitata) (OECD 201)			
NOEC/21d	>1 mg/l (daphnia magna)			
EC50/48h	87.4 mg/l (daphnia magna)			
EC50/72h	5 mg/l (algae)			
	126 mg/l (Scenedesmus subspicatus)			
LC50/96h	344 mg/l (Brachydanio rerio)			
	597 mg/l (Danio rerio.)			
	168 mg/l (pimephales promelas)			
12.2 Persist				
degradabilit 12.3 Bioacc	No further relevant information available.  www.amulative potential No further relevant information available.			

No further relevant information available. 12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

(Contd. on page 13)



Page 13/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

Component B

(Contd. of page 12)

· vPvB:

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

12.6 Endocrine disrupting

properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

· Remark:

Toxic for fish

· Additional ecological information:

· General notes:

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely

hazardous for water

Do not allow product to reach ground water, water course or sewage system,

even in small quantities.

Danger to drinking water if even small quantities leak into the ground.

#### **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.

· European waste catalogue

20 00 00 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: Alcohol

#### **SECTION 14: Transport information**

· <u>14.1 UN number or ID number</u> · <u>ADR, IMDG, IATA</u>	UN2735
· 14.2 UN proper shipping name	
· ADR	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4-nonylphenol, branched), ENVIRONMENTALLY HAZARDOUS
· <u>IMDG</u>	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4-nonylphenol, branched), MARINE POLLUTANT
· <u>IATA</u>	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 4-nonylphenol, branched)

(Contd. on page 14)



Page 14/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

**Component B** 

(Contd. of page 13)

## · 14.3 Transport hazard class(es)

· ADR





· <u>Class</u> 8 (C7) Corrosive substances.

· <u>Label</u>

·IMDG



· <u>Class</u> 8 Corrosive substances.

· Label 8

·IATA



· Class 8 Corrosive substances.

· Label

14.4 Packing group

· ADR, IMDG, IATA II

• **14.5 Environmental hazards:** Product contains environmentally hazardous substances:

· Marine pollutant: N

Symbol (fish and tree)
Special marking (ADR):
Symbol (fish and tree)

• 14.6 Special precautions for user Warning: Corrosive substances.

· Hazard identification number (Kemler code): 80

EMS Number: F-A,S-B

· Segregation groups (SGG18) Alkalis

· Stowage Category

Segregation Code SG35 Stow "separated from" SGG1-acids

· 14.7 Maritime transport in bulk according to IMO

<u>instruments</u> Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Transport category

· Tunnel restriction code E

(Contd. on page 15)



Page 15/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

**Component B** 

(Contd. of page 14)

٠	IIV	D	G

· Limited quantities (LQ)

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation": UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-

5L

ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE, REACTION PRODUCTS WITH 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE, 4-NONYLPHENOL, BRANCHED), 8, III, ENVIRONMENTALLY HAZARDOUS

#### **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.

· Seveso category E1 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 100 t

Qualifying quantity (tonnes) for the

application of upper-tier

requirements 200 t

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· Regulation (EU) No 649/2012

84852-15-3 4-nonylphenol, branched

Annex I Part 1 Annex I Part 2

· 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.

(Contd. on page 16)



Page 16/16

# Safety data sheet

# according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.06.2024 Version number 5 Revision: 21.06.2024

**Trade name:** Akepox 2005 Laminating Resin 3+3

Component B

(Contd. of page 15)

· Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

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

84852-15-3 4-nonylphenol, branched

· <u>VOC EU</u> 129.0 g/l

15.2 Chemical safety

**assessment:** A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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:
 Date of previous version:
 Laboratory
 07.09.2023

· 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 Organisation

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

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)

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

ATE: Acute toxicity estimate values Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

ΕU