

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 7

Revision: 12.07.2018

## 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

### 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  
D 90451 Nürnberg

Tel. +49(0)911-642960  
Fax. +49(0)911-644456  
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.  
+44 (171) 635 91 91  
National Poison Inform. Centre  
Medical Toxicology Unit  
Avalonley Road  
London SE14 5ER

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

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



GHS05 corrosion

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

Eye Dam. 1                H318 Causes serious eye damage.



GHS09 environment

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



GHS07

Acute Tox. 4                H302 Harmful if swallowed.

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

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



GHS05 GHS07 GHS08 GHS09

· Signal word

Danger

· Hazard-determining components of labelling:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Benzyl alcohol

4-nonylphenol, branched

3-aminomethyl-3,5,5-trimethylcyclohexylamine

N-(3-(trimethoxysilyl)propyl)ethylenediamine

· Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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

H410 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.

P103 Read label before use.

P260 Do not breathe vapours.

P273 Avoid release to the environment.

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

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

P310 Immediately call a POISON CENTER/doctor.

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

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 Chemical characterisation: Mixtures**

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

· Dangerous components:

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%
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CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-0000	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319	12.5-25%
CAS: 84852-15-3 EINECS: 284-325-5 Index number: 601-053-00-8 Reg.nr.: 01-2119510715-45-xxxx	4-nonylphenol, branched ⚠ Acute Tox. 3, H331 ⚠ Repr. 2, H361fd ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Acute Tox. 4, H302	<10%
CAS: 69-72-7 EINECS: 200-712-3 Reg.nr.: 01-2119486984-17	Salicylic acid ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302	1-5%
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. 1, H317 Aquatic Chronic 3, H412	1-5%
	N-(3-(trimethoxysilyl)propyl)ethylenediamine ⚠ Eye Dam. 1, H318 ⚠ Skin Sens. 1, H317	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

- Information for doctor: Breathing difficulty  
Headache  
Dizziness  
Dizziness  
Nausea  
Nonylphenol based exposition: causes corrosive burns, damages respiratory tract, eyes, skin and digestive system up to complete tissue destruction. Temporary dysfunctions such as dizziness, headache, nausea and diarrhea may occur. Can cause health disturbances like dermal bleaching, renal and hepatic damage.

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· Hazards

· **4.3 Indication of any immediate medical attention and special treatment needed**

Amines: Inhalation, swallowing or dermal contact may cause health damages. Cause burns, harm respiratory tract, eyes, skin, and digestion system in worst case up to complete destruction. Intermediate interferences such as headache, nausea, cough, dyspnea may occur. May cause allergies. Sensitized users may react towards very low amine concentrations and should avoid any further contact with this group of chemicals.  
Danger of impaired breathing.

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. 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 emergency procedures**

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 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.

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### 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 explosion protection:

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 common storage facility:

Store away from oxidising agents.  
Store away from foodstuffs.

##### Further information about storage conditions:

Store receptacle in a well ventilated area.  
Keep container tightly sealed.

##### Storage class:

8

#### 7.3 Specific end use(s)

No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### Additional information about design of technical facilities:

No further data; see item 7.

#### 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

##### 100-51-6 Benzyl alcohol

Oral	DNEL (Kurzzeit-akut)	25 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	5 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	47 mg/kg bw/day (ARB) 28.5 mg/kg bw/day (BEV)
	DNEL ( Langzeit-wiederholt)	9.5 mg/kg bw/day (ARB) 5.7 mg/kg bw/day (BEV)
	DNEL (Kurzzeit-akut)	450 mg/m <sup>3</sup> Air (ARB) 40.55 mg/m <sup>3</sup> Air (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	22 mg/m <sup>3</sup> Air (ARB) 8.11 mg/m <sup>3</sup> Air (BEV)

##### 84852-15-3 4-nonylphenol, branched

Dermal	DNEL ( Langzeit-wiederholt)	7.5 mg/kg bw/day (ARB)
Inhalative	DNEL (Langzeit-wiederholt)	0.5 mg/m <sup>3</sup> Air (ARB)

#### PNECs

##### 100-51-6 Benzyl alcohol

PNEC (wässrig)	39 mg/l (KA)
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PNEC (fest)	0.1 mg/l (MW) 1 mg/l (SW) 2.3 mg/l (WAS) 0.456 mg/kg Trockengew (BO) 0.527 mg/kg Trockengew (MWS) 5.27 mg/kg Trockengew (SWS)
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· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· 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.

· Respiratory protection:

Avoid contact with the eyes and skin.  
Not necessary if room is well-ventilated.  
Short term filter device:  
Filter A/P2

· Protection of hands:

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 analyses 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

· Material of gloves

Butyl rubber, BR

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.

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- 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 protection:  
 Tightly sealed goggles
  - Body protection: Protective work clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

Form:	Fluid
Colour:	Yellow
Odour:	Characteristic

· pH-value: Not applicable

##### · Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	205 °C

· Flash point: 101 °C

· Ignition temperature: 380 °C

· Decomposition temperature: > 250 °C

· Auto-ignition temperature: Product is not selfigniting.

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

##### · Explosion limits:

Lower:	1.2 Vol %
Upper:	13 Vol %

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· Vapour pressure at 20 °C:	0.1 hPa
· Density at 20 °C:	1.01 g/cm <sup>3</sup>
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic at 20 °C:	5,000 mPas
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	14.8 %
Solids content:	83.0 %
· <b>9.2 Other information</b>	No further relevant information available.

### 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 toxicological effects**
- **Acute toxicity** Harmful if swallowed.

· LD/LC50 values relevant for classification:

Oral	LD50	>400 mg/kg (rat)
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#### 100-51-6 Benzyl alcohol

Oral	LD50	1,040 mg/kg (mouse) 1,040 mg/kg (rabbit) 1,620 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/8h	1,000 ppm (rat)
	LC50/4 h	11 mg/l (rat)
	LC50/48h	360 mg/l (daphnia magna) 645 mg/l (goo)

#### 84852-15-3 4-nonylphenol, branched

Oral	LD50	1,210 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	3.636 mg/l (mouse)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.

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- Respiratory or skin sensitisation      May cause an allergic skin reaction.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity                      Based on available data, the classification criteria are not met.
- Carcinogenicity                                      Based on available data, the classification criteria are not met.
- Reproductive toxicity                              Suspected of damaging fertility. Suspected of damaging the unborn child.
- STOT-single exposure                              Based on available data, the classification criteria are not met.
- 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.

**SECTION 12: Ecological information**

**· 12.1 Toxicity**

**· Aquatic toxicity:**

**38294-64-3 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

EC50	>1,000 mg/l (BES)
EL50/48h	11.1 mg/l (daphnia magna)
EL50/72h	79.4 mg/l (Pseudokirchneriella subcapitata)
LL50/96h	70.7 mg/l (Oncorhynchus mykiss)

**100-51-6 Benzyl alcohol**

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)
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)
NOEC/21d	51 mg/l (daphnia magna) (OECD211)
EC50/72h	770 mg/l (green alge) (OECD 201)
	770 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	645 mg/l (goo)
	10 mg/l (Iepomis macrochirus)
	460 mg/l (Pimephales promelas)

**84852-15-3 4-nonylphenol, branched**

EC50/96h	0.41 mg/l (green alge)
EC50/48h	0.14 mg/l (daphnia magna)
NOEC/21d	0.024 mg/l (daphnia magna)
EC50/72h	1.3 mg/l (Scenedesmus subspicatus)
LC50/96h	0.135 mg/l (Pimephales promelas)

**· 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.

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- Ecotoxicological 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.
- **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 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  
acetone

### SECTION 14: Transport information

- **14.1 UN-Number**
  - ADR, IMDG, IATA UN2735
  - **14.2 UN proper shipping name**
  - ADR 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, nonylphenol), ENVIRONMENTALLY HAZARDOUS
  - IMDG POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, nonylphenol), MARINE POLLUTANT
  - IATA POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, nonylphenol)
  - **14.3 Transport hazard class(es)**
  - ADR
- 

- Class 8 (C7) Corrosive substances.

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· <u>Label</u>	8
· <u>IMDG</u>	
	
· <u>Class</u>	8 Corrosive substances.
· <u>Label</u>	8
· <u>IATA</u>	
	
· <u>Class</u>	8 Corrosive substances.
· <u>Label</u>	8
· <b>14.4 Packing group</b>	
· <u>ADR, IMDG, IATA</u>	III
· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances:
· <u>Marine pollutant:</u>	No Symbol (fish and tree)
· <u>Special marking (ADR):</u>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <u>Danger code (Kemler):</u>	80
· <u>EMS Number:</u>	F-A,S-B
· <u>Segregation groups</u>	Alkalis
· <u>Stowage Category</u>	A
· <u>Segregation Code</u>	SG35 Stow "separated from" acids.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <u>Transport/Additional information:</u>	
· <u>ADR</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>Transport category</u>	3
· <u>Tunnel restriction code</u>	E
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>UN "Model Regulation":</u>	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, NONYLPHENOL), 8, III, ENVIRONMENTALLY HAZARDOUS

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## Safety data sheet

according to 1907/2006/EC, Article 31

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Component B**

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### 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

#### · National regulations:

- Information about limitation of use: Employment restrictions concerning juveniles must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.

- 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

- VOC EU 152.8 g/l

#### 15.2 Chemical safety assessment:

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.

- Relevant phrases
  - H302 Harmful if swallowed.
  - H312 Harmful in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H319 Causes serious eye irritation.
  - H331 Toxic if inhaled.
  - H332 Harmful if inhaled.
  - H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.
- Recommended restriction of use refer to Technical Data Sheet (TDS)
- Department issuing SDS: Laboratory
- Contact: Dieter Zimmermann  
Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de

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· Abbreviations and acronyms:

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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 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 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  
 Acute Tox. 4: Acute toxicity – Category 4  
 Acute Tox. 3: Acute toxicity – Category 3  
 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  
 Repr. 2: Reproductive toxicity – Category 2  
 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

· \* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC