according to 1907/2006/EC, Article 31

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

· 1.1 Product identifier

· Trade name: Akepox 1016 Micro Filler Comp. B

· Article number: 11787, 11790, 11793, 11796

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

No further relevant information available.

Application of the substance / the

Hardening agent/ Curing agent mixture

Epoxy resin adhesive

· 1.3 Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Laboratory

Tel. +49(0)911-642960 Lechstrasse 28 Fax. +49(0)911-644456 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable from:

· 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



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

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

 Signal word Danger

· Hazard-determining components

of labelling:

reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with

ammonia

· Hazard statements H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

If medical advice is needed, have product container or label Precautionary statements P101

P102 Keep out of reach of children.

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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+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.

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: 		
Reg.nr.: 01-2119557899-12	reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 3, H412	50-100%
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%

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.

Immediately remove any clothing soiled by the product.

• After inhalation: In case of unconsciousness place patient stably in side position for

transportation.

After skin contact: 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: 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

Dizziness Headache Dizziness

Gastric or intestinal disorders

Allergic reactions Asthma attacks

Nausea

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Hazards



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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.

In case of fire, the following can be released:

Nitrogen oxides (NOx) Carbon monoxide (CO)

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

· 5.3 Advice for firefighters

· Protective equipment:

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

Wear fully protective suit.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures

Ensure adequate ventilation Keep away from ignition sources.

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 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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal containment and cleaning up:

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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

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.

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Prevent any seepage into the ground.

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· Information about storage in one common storage facility:

Store away from foodstuffs.

• Further information about storage

Protect from frost.

conditions:

Store receptacle in a well ventilated area.

Keep container tightly sealed.

• 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.

· DNI	<u>ELs</u>		
read	reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia		
Ora	ıl	DNEL (Langzeit-wiederholt)	0.04 mg/kg bw/day (BEV)
Der	mal	DNEL (Langzeit-wiederholt)	0.623-2.5 mg/kg bw/day (ARB)
			0.311-1.25 mg/kg bw/day (BEV)
100	-51-6 E	Benzyl alcohol	
Ora	ıl	DNEL (Kurzzeit-akut)	25 mg/kg bw/day (BEV)
		DNEL (Langzeit-wiederholt)	5 mg/kg bw/day (BEV)
Der	mal	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)
Inha	alative	DNEL (Kurzzeit-akut)	450 mg/m³ Air (ARB)
			40.55 mg/m3 Air (DE\/)

		6.11 mg/m² Aii (BEV)
		8.11 mg/m³ Air (BEV)
		22 mg/m³ Air (ARB)
		40.55 mg/m³ Air (BEV)
ative		450 mg/m³ Air (ARB)
		5.7 mg/kg bw/day (BEV)
	DIVLE (Langzen-wiedenion)	

Ы	N	F	Ce

reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammoni

PNEC (wässrig) 7.5 mg/l (KA)

0.0143 mg/l (MW) 0.015 mg/l (SW)

PNEC (fest) 0.0176 mg/kg Trockengew (BO)

0.125 mg/kg Trockengew (MWS) 0.132 mg/kg Trockengew (SWS)

100-51-6 Benzyl alcohol

PNEC (wässrig) 39 mg/l (KA)

0.1 mg/l (MW) 1 mg/l (SW) 2.3 mg/l (WAS)

PNEC (fest)

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:

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. 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:

· Protection of hands:

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 without use of

protective gloves:

ARRETIL (http://www.stoko.com)

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:

SLIG SPEZIAL (http://www.stoko.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

· Material of gloves

Butyl rubber, BR Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Recommended thickness of the material: ≥ 0.4 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.

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· Penetration time of glove material Value for the permeation: Level \leq 6; 480 min

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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)

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)

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 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: Colourless
Odour: Ammonia-like

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 205 °C

· Flash point: 101 °C

· Ignition temperature: 435 °C

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

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

<u>Lower:</u> 1.3 Vol % <u>Upper:</u> 13 Vol %

· Vapour pressure at 20 °C: 0.1 hPa

Density at 20 °C: 1 g/cm³

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Viscosity:

Dynamic: Not determined.

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Kinematic: Not determined.

· Solvent content:

Organic solvents: 24.0 %

· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

No further relevant information available. · 10.1 Reactivity

· 10.2 Chemical stability Thermal decomposition /

No decomposition if used according to specifications. conditions to be avoided:

· 10.3 Possibility of hazardous

reactions Strong exothermic reaction with acids. · 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition

products: Nitrogen oxides Nitrogen oxides (NOx)

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

· LD/LC30 values i	elevant for classification.	
ATF (Acute Toxi	city Estimates)	•

ATE (Addit Toxiony Edimetes)		matos
Oral		4,333 mg/kg (mouse)
		8,333 mg/kg (rabbit)
Inhalative	I C50/4 h	45.8 mg/l (rat)

	propane-1.2-diol with ammonia

Oral	LD50	2,885.3 mg/kg (rat)
	NOAEL-Werte	30 mg/kg (rat)
Dermal	LD50	2,979.7 mg/kg (rabbit)
Inhalative	LC50/8h	>0.74 mg/l (rat)

100-51-6 E	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)

· Primary irritant effect:

· Skin corrosion/irritation Causes severe skin burns and eye damage.

Causes serious eye damage. · Serious eye damage/irritation

· Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

SECTION 12: Ecological information

· 12.1 Toxicity

· IZ.1 TOXICILY			
	· Aquatic toxicity:		
•	reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia		
EC50/96h	>15 mg/l (piscis)		
EC50/48h	80-418.34 mg/l (daphnia magna)		
ErC50/72h	15 mg/l (green alge)		
NOEC	0.32 mg/kg (green alge)		
	310 mg/kg (bacteria)		
EC50/72h	141.72 mg/l (green alge)		
LC50/96h	772.14 mg/l (piscis)		
100-51-6 Be	nzyl 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 (lepomis macrochirus)		
	460 mg/l (Pimephales promelas)		

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

• General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

· 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.√P∨B: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

Uncleaned packaging:

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

thorough and proper cleaning.

· Recommended cleansing agents: Diluted caustic solution.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN2735
 14.2 UN proper shipping name ADR IMDG, IATA 	2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyoxyalkylendiamine) POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyoxyalkylendiamine)

· 14.3 Transport hazard class(es)

· ADR



ClassLabel8 (C7) Corrosive substances.8

· IMDG, IATA



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

· Label 8

· 14.4 Packing group · ADR, IMDG, IATA

· 14.5 Environmental hazards:

Marine pollutant: No

• 14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler):
EMS Number:
Stowage Category

80
F-A,S-B
A

• Segregation Code SG35 Stow "separated from" acids.

· 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

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Transport/Additional information:

1L Limited quantities (LQ)

Code: E2 Excepted quantities (EQ)

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· Transport category · Tunnel restriction code Ε

· Limited quantities (LQ) 1L

· Excepted quantities (EQ) Code: E2

> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation": UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(POLYOXYALKYLENDIAMINE), 8, II

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

· National regulations:

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

Employment restrictions concerning pregnant and lactating women must be

observed.

Water hazard class 2 (Self-assessment): hazardous for water. Waterhazard class:

· VOC EU 240.0 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.

H302 Harmful if swallowed. Relevant phrases

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

· Department issuing SDS: Laboratory

Dieter Zimmermann Contact:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de Abbreviations and acronyms:

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

ICAO: International Civil Aviation Organisation

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

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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 vPvB: very Persistent and very Bioaccumulative 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
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