AKEMI[®]

	according to 1907/2006/EC, Article 31	
Printing date 12.07.2018	Version number 6	Revision: 12.07.2018
	substance/mixture and of the company/undertaking	1
• 1.1 Product identifier • Trade name:	Akepox 2000 Component B	
Article number:	10617, 10618, 10619,0	
• 1.2 Relevant identified uses of		
the substance or mixture and uses advised against	No further relevant information available.	
<u>Application of the substance / the</u> 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
Eurther information obtainable		
from: • 1.4 Emergency telephone	Laboratory	
number:	Product Safety Department AKEMI chemisch technisc	he 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 identificati	on	
· 2.1 Classification of the substan		
Classification according to Regula		
GHS08 health hazard		
	cted of causing genetic defects.	
Repr. 2 H361fd Suspe	cted of damaging fertility. Suspected of damaging the ur	nborn child.
GHS05 corrosion		
Skin Corr. 1B H314 Cause	a severe skip huma and sus domaga	
	s severe skin burns and eye damage. s serious eye damage.	
	· · · · · · · · · · · · · · · · · · ·	
GHS09 environment		
Aquatic Chronic 2 H411 Toxic t	o aquatic life with long lasting effects.	
GHS07		
Acute Tox. 4 H332 Harmfu	ul if inhaled.	
Skin Sens. 1 H317 May ca	ause 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. (Contd. on page 2)
		GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI[®]

Trade name: Akepox 2000 Component B			
	•	(Contd. of page 1)	
 Hazard pictograms 			
	GHS05 GHS07	GHS08 GHS09	
 Signal word 	Danger		
· Hazard-determining components			
of labelling:	epoxypropane trimethylcyclohexy Benzyl alcohol		
	4-nonylphenol, bra	anched /mer with 1,3-benzenedimethanamine and phenol	
	m-phenylenebis(n		
		lyl)propyl)ethylenediamine	
		5,5-trimethylcyclohexylamine	
 Hazard statements 	H332 Harmful if		
		evere skin burns and eye damage.	
		e an allergic skin reaction. d of causing genetic defects.	
		d of damaging fertility. Suspected of damaging the unborn	
		quatic 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 P273	Do not breathe vapours. Avoid release to the environment.	
	P280	Wear protective gloves/protective clothing/eye protection/face	
	1 200	protection.	
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated	
		clothing. Rinse skin with water [or shower].	
	P305+P351+P338	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue	
	P310	rinsing. 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		÷ v	
Results of PBT and vPvB assessment			
· PBT:	Not applicable.		
• <u>vPvB:</u>	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 CAS: 38294-64-3 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-Reg.nr.: 01-2119965165-33 25-50% Skin Corr. 1B, H314; Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 25-50%

(Contd. on page 3)

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Akepox 2000 Component B

		ontd. of page 2)
CAS: 57214-10-5 NLP: 500-137-0	formaldehyde polymer with 1,3-benzenedimethanamine and phenol Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412	12.5-25%
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: 1477-55-0 EINECS: 216-032-5 Reg.nr.: 01-2119480150-50-xxxx	m-phenylenebis(methylamine) Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317 Aquatic Chronic 3, H412	<12.5%
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 	1-5%
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: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2 Reg.nr.: 01-2119471329-32	phenol Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 2, H341; STOT RE 2, H373 Skin Corr. 1B, H314	1-5%
	N-(3-(trimethoxysilyl)propyl)ethylenediamine Eye Dam. 1, H318 Skin Sens. 1, H317	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%
<u>SVHC</u> 84852-15-3 4-nonylphenol, branc <u>Additional information:</u>	hed 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.
 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.
	(Contd. on page 4)
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Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI®

Trade name: Akepox 2000 Component B

	(Contd. of page 3)
· 4.2 Most important symptoms	
and effects, both acute and	
delayed	Breathing difficulty
	Headache
	Dizziness
	Coughing
 Information for doctor: 	The symptoms of phenol based poisoning appearances are white coloured mouth scabs, shock condition, insensibility, bradycardia and renal dysfunction and damage of renal tissue. Appropriate therapy measures: Administration of an adequate volume of liquid, gastrolavage in application of carbo medicinalis, sodium sulphate with plenty of water, infusion of glucose solution (5%); maesures against state of shock, hemodialysis. 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. 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.
• <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 measur	res
 5.1 Extinguishing media 	
 Suitable extinguishing agents: 	Use fire extinguishing methods suitable to surrounding conditions.
 <u>5.2 Special hazards arising from</u> 	
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 	Mount respiratory protective device. 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
 <u>6.1 Personal precautions</u>, protective equipment and 	

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.

GB

AKEMI[®]

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

aue name.	Akepox 2000 Compone	ent B
		(Contd. of page
		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.
	ods and material for	Alternation of the Part of the Parameter of the Control of the Con
containm	ent and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, univers binders, sawdust).
		Use neutralising agent.
		Dispose contaminated material as waste according to item 13.
		Ensure adequate ventilation.
6.4 Refere	ence 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	ge
7.1 Preca	utions for safe	
handling		Keep receptacles tightly sealed.
<u></u>		Store in cool, dry place in tightly closed receptacles.
		Use only in well ventilated areas.
		Ensure good ventilation/exhaustion at the workplace.
	n about fire - and	
explosion	protection:	No special measures required.
7.2 Condi	itions for safe storage,	including any incompatibilities
 Storage: 		
	ents to be met by	
storeroom	is and receptacles:	Store only in the original receptacle.
Informatio	n about atorago in ano	Prevent any seepage into the ground.
	n about storage in one storage facility:	Store away from oxidising agents.
	storage raomty:	Store away from foodstuffs.
 Further inf 	formation about storage	
conditions	<u>.</u>	Store receptacle in a well ventilated area.
0 /		Keep container tightly sealed.
 Storage cl Z 2 Cm a site 		8 Na furth an rate cantinformation available
· <u>7.3 Speci</u>	fic end use(s)	No further relevant information available.
SECTION	8: Exposure controls/	personal protection
		personal protection
· Additional	information about	Dersonal protection No further data; see item 7.
 Additional design of t 	information about technical facilities:	
 Additional design of t 8.1 Control 	information about technical facilities: ol parameters	No further data; see item 7.
Additional design of t 8.1 Contro Ingredient	information about technical facilities: ol parameters is with limit values that re	
Additional design of t 8.1 Control Ingredient 108-95-2	information about technical facilities: ol parameters s with limit values that re phenol	No further data; see item 7.
 Additional design of the design of	information about technical facilities: ol parameters s with limit values that re phenol prt-term value: 16 mg/m ³ ,	No further data; see item 7. equire monitoring at the workplace: 4 ppm
Additional design of t 8.1 Contro Ingredient 108-95-2 WEL Sho Long	information about technical facilities: ol parameters s with limit values that re phenol	No further data; see item 7. equire monitoring at the workplace: 4 ppm
Additional design of t 8.1 Contro Ingredient 108-95-2 I WEL Sho Long Sk	information about technical facilities: ol parameters s with limit values that re phenol prt-term value: 16 mg/m ³ ,	No further data; see item 7. equire monitoring at the workplace: 4 ppm
 Additional design of f 8.1 Control Ingredient 108-95-2 WEL Sho Long Sk DNELs 	information about technical facilities: ol parameters s with limit values that re phenol ort-term value: 16 mg/m ³ , g-term value: 7.8 mg/m ³ ,	No further data; see item 7. equire monitoring at the workplace: 4 ppm 2 ppm
Additional design of t 8.1 Contro Ingredient 108-95-2 WEL Sho Long Sk DNELs 57214-10-	information about technical facilities: ol parameters as with limit values that re phenol prt-term value: 16 mg/m ³ , g-term value: 7.8 mg/m ³ ,	No further data; see item 7. equire monitoring at the workplace: 4 ppm 2 ppm er with 1,3-benzenedimethanamine and phenol
 Additional design of f 8.1 Control Ingredient 108-95-2 WEL Sho Long Sk DNELs 	information about technical facilities: ol parameters s with limit values that re phenol ort-term value: 16 mg/m ³ , g-term value: 7.8 mg/m ³ , -5 formaldehyde polym DNEL (Kurzzeit-akut)	No further data; see item 7. equire monitoring at the workplace: 4 ppm 2 ppm er with 1,3-benzenedimethanamine and phenol 3.33 mg/kg bw/day (BEV)
Additional design of t 8.1 Contro Ingredient 108-95-2 WEL Sho Long Sk DNELs 57214-10-	information about technical facilities: ol parameters is with limit values that re phenol ort-term value: 16 mg/m ³ , g-term value: 7.8 mg/m ³ , -5 formaldehyde polyme DNEL (Kurzzeit-akut) DNEL (Langzeit-wieder	No further data; see item 7. equire monitoring at the workplace: 4 ppm 2 ppm er with 1,3-benzenedimethanamine and phenol 3.33 mg/kg bw/day (BEV) 3.33 mg/kg bw/day (BEV)
Additional design of t 8.1 Contro Ingredient 108-95-2 WEL Sho Long Sk DNELs 57214-10-	information about technical facilities: ol parameters s with limit values that re phenol ort-term value: 16 mg/m ³ , g-term value: 7.8 mg/m ³ , -5 formaldehyde polym DNEL (Kurzzeit-akut)	No further data; see item 7. equire monitoring at the workplace: 4 ppm 2 ppm er with 1,3-benzenedimethanamine and phenol 3.33 mg/kg bw/day (BEV)
Additional design of t 8.1 Contro Ingredient 108-95-2 WEL Sho Long Sk DNELs 57214-10 - Oral	information about technical facilities: ol parameters is with limit values that re phenol ort-term value: 16 mg/m ³ , g-term value: 7.8 mg/m ³ , -5 formaldehyde polyme DNEL (Kurzzeit-akut) DNEL (Langzeit-wieder	No further data; see item 7. equire monitoring at the workplace: 4 ppm 2 ppm er with 1,3-benzenedimethanamine and phenol 3.33 mg/kg bw/day (BEV) 3.33 mg/kg bw/day (BEV)

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

Trade name: Akepox 2000 Component B

			(Contd. of page
	DNEL	(Langzeit-wiederholt)	0.000385-0.28 mg/kg bw/day (ARB)
			0.000167-0.008 mg/kg bw/day (BEV)
		(Kurzzeit-akut)	2-6 mg/m³ Air (ARB)
100-51-6 E			
Oral		(Kurzzeit-akut)	25 mg/kg bw/day (BEV)
_		(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)
Inhalative	DNEL	(Kurzzeit-akut)	450 mg/m³ Air (ARB)
			40.55 mg/m³ Air (BEV)
	DNEL	(Langzeit-wiederholt)	22 mg/m³ Air (ARB)
			8.11 mg/m³ Air (BEV)
	•	enylenebis(methylami	•
Dermal			0.33 mg/kg bw/day (ARB)
		(Langzeit-wiederholt)	1.2 mg/m³ Air (ARB)
84852-15-		nylphenol, branched	
Dermal	DNEL	(Langzeit-wiederholt)	7.5 mg/kg bw/day (ARB)
Inhalative	DNEL	(Langzeit-wiederholt)	0.5 mg/m³ Air (ARB)
108-95-2 p	ohenol		
Oral	DNEL	(Langzeit-wiederholt)	0.4 mg/kg bw/day (BEV)
Dermal	DNEL	(Langzeit-wiederholt)	0.4 mg/kg bw/day (BEV)
Inhalative	DNEL	(Langzeit-wiederholt)	8 mg/m³ Air (ARB)
			1.32 mg/m³ Air (BEV)
PNECs			<u> </u>
57214-10-	5 form	aldehyde polymer wit	th 1,3-benzenedimethanamine and phenol
PNEC (wä	issrig)	30 mg/l (KA)	
		0.002 mg/l (MW)	
		0.02 mg/l (SW)	
PNEC (fes	st)	0.0236 mg/kg Trocken	gew (BO)
		0.01 mg/kg Trockenge	,
		0.1001 mg/kg Trocken	gew (SWS)
100-51-6 E	Benzyl		
	-	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)	
1477-55-0	m-ph	enylenebis(methylami	
		0.0094 mg/l (MW)	,
- (3/	0.094 mg/l (SW)	
108-95-2 p	oheno	3 ()	
100-33-21			
-	issria)	2.1 mg/l (KA)	



Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI[®]

Trade name: Akepox 2000 Component B		
	(Contd. of page 6)	
	0.00077 mg/l (MW)	
	0.0077 mg/l (SW)	
PNEC (fest)	0.136 mg/kg Trockengew (BO)	
	0.00915 mg/kg Trockengew (MWS)	
	0.0915 mg/kg Trockengew (SWS)	
 Additional inform 	ation: The lists valid during the making were used as basis.	
8.2 Exposure co		
 Personal protection General protection 		
measures:	Do not eat, drink, smoke or sniff while working.	
modouroon	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 prote 		
	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.	
 Protection of han 		
	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)	
	Shore Employed (http://www.stoke.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 live gives	
	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 		
	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	
	(Contd. on page 8)	

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.07.2018

Upper:

water:

Density at 20 °C:

· Vapour pressure at 20 °C:

· Solubility in / Miscibility with

Version number 6

Revision: 12.07.2018

Trade name: Akepox 2000 Component B

	(Contd. of page 7)
· Penetration time of glove material	prior to the application. 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
	Dermatril (Art_No. 740, 741, 742)
	Camatril (KCL, Art_No. 730, 731, 732, 733)
	Chloroprene rubber, CR
 As protection from splashes gloves 	Camapren (KCL, Art_No. 720, 722, 726)
made of the following materials are	
suitable:	Nitrile rubber, NBR
	Camatril (KCL, 730, 731, 732, 733)
	Chloroprene rubber, CR
 Not suitable are gloves made of 	Camapren (KCL, Art_No. 720, 722, 726)
the following materials:	Natural rubber, NR
	Fluorocarbon rubber (Viton)
Eye protection:	
	tightly sealed goggles
 Body protection: 	Protective work clothing
SECTION 9: Physical and chemic	al properties
 9.1 Information on basic physica 	l and chemical properties
<u>General Information</u>	
 <u>Appearance:</u> Form: 	Fluid
Colour:	Yellow
· Odour:	Characteristic
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling ran	ge: 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:	1.3 Vol %

13 Vol %

0.1 hPa

1.06 g/cm³

Not miscible or difficult to mix.

(Contd. on page 9)

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI®

		000 Compone		
			(C	ontd. of pag
Viscosity:			5 000 mBaa	
Kinemat	<u>c at 20 °C:</u> ic:		5,000 mPas Not determined.	
			Not determined.	
Solvent co	solvents:		17.2 %	
	informatio	n	No further relevant information available.	
SECTION	10: Stabili	ity and reacti	ivity	
· 10.1 Reactivity			No further relevant information available.	
	nical stabi			
	ecompositio		No decomposition if used and stared apparding to appaifications	
	to be avoid		No decomposition if used and stored according to specifications.	
reactions		<u>azai uous</u>	Strong exothermic reaction with acids.	
. 54010113			Reacts with strong oxidising agents.	
10.4 Cond	ditions to a	void	No further relevant information available.	
	mpatible m		No further relevant information available.	
		omposition		
products:	<u>.</u>		Corrosive gases/vapours	
		ant for classi	fication:	
•	-	Estimates)		
Oral	LD50	2,302 mg/kg		
Dermal	LD50	7,664 mg/kg		
Dermal Inhalative	LC50/4 h	7,664 mg/kg 12.1-12.6 mg	g/l	
Dermal Inhalative 57214-10-	LC50/4 h • 5 formalde	7,664 mg/kg 12.1-12.6 mg	g/l er with 1,3-benzenedimethanamine and phenol	
Dermal Inhalative 57214-10- Oral	LC50/4 h • 5 formalde LD50	7,664 mg/kg 12.1-12.6 mg ehyde polymo >2,000 mg/k	g/l er with 1,3-benzenedimethanamine and phenol gg (rat)	
Dermal Inhalative 57214-10- Oral Dermal	LC50/4 h • 5 formalde LD50 LD50	7,664 mg/kg 12.1-12.6 mg hyde polym >2,000 mg/k >2,020 mg/k	g/l er with 1,3-benzenedimethanamine and phenol gg (rat)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I	LC50/4 h • 5 formalde LD50 LD50 Benzyl alco	7,664 mg/kg 12.1-12.6 mg ehyde polymo >2,000 mg/k >2,020 mg/k phol	g/l er with 1,3-benzenedimethanamine and phenol ag (rat) ag (rat)	
Dermal Inhalative 57214-10- Oral Dermal	LC50/4 h • 5 formalde LD50 LD50	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k ohol 1,040 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol ag (rat) ag (rat) (mouse)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I	LC50/4 h • 5 formalde LD50 LD50 Benzyl alco	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k ohol 1,040 mg/kg 1,040 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol cg (rat) cg (rat) (mouse) (rabbit)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I Oral	LC50/4 h - 5 formalde LD50 LD50 Benzyl alco LD50	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 0hol 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol (g (rat) (g (rat)) (mouse) (rabbit) (rat)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I Oral Dermal	LC50/4 h 5 formalde LD50 LD50 Benzyl alco LD50	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol eg (rat) eg (rat) (mouse) (rabbit) (rat) (rabbit)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I Oral	LC50/4 h 5 formalde LD50 LD50 Benzyl alco LD50	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 0hol 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol eg (rat) eg (rat) (mouse) (rabbit) (rat) (rabbit)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I Oral Dermal	LC50/4 h -5 formalde LD50 Benzyl alco LD50 LD50 LD50 LC50/8h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol cg (rat) cg (rat) (mouse) (rabbit) (rat) (rabbit) rat)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I Oral Dermal	LC50/4 h -5 formalde LD50 Benzyl alco LD50 LD50 LC50/8h LC50/4 h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat)	g/l er with 1,3-benzenedimethanamine and phenol cg (rat) cg (rat) (mouse) (rabbit) (rat) (rabbit) rat)	
Dermal Inhalative 57214-10- Oral Dermal 100-51-6 I Oral Dermal	LC50/4 h -5 formalde LD50 Benzyl alco LD50 LD50 LC50/8h LC50/4 h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat)	g/l er with 1,3-benzenedimethanamine and phenol eg (rat) eg (rat) (mouse) (rabbit) (rabbit) (rat) (rabbit) rat)	
Dermal Inhalative 57214-10- Oral Dermal Oral Dermal Inhalative	LC50/4 h 5 formalde LD50 Benzyl alco LD50 LD50 LC50/8h LC50/4 h LC50/48h C50/48h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat) 360 mg/l (da 645 mg/l (go enebis(meth	g/l er with 1,3-benzenedimethanamine and phenol ig (rat) ig (rat) (mouse) (rabbit) (rat) (rat) (rabbit) rat) uphnia magna) oo ylamine)	
Dermal Inhalative 57214-10- Oral Dermal Oral Dermal Inhalative	LC50/4 h -5 formalde LD50 Benzyl alco LD50 LD50 LD50 LC50/8h LC50/4 h LC50/48h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/kg 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat) 360 mg/l (go	g/l er with 1,3-benzenedimethanamine and phenol ig (rat) ig (rat) (mouse) (rabbit) (rat) (rat) (rabbit) rat) uphnia magna) oo ylamine)	
Dermal Inhalative 57214-10- Oral Dermal Oral Dermal Inhalative	LC50/4 h 5 formalde LD50 Benzyl alco LD50 LD50 LC50/8h LC50/4 h LC50/48h C50/48h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat) 360 mg/l (da 645 mg/l (go enebis(meth	g/l er with 1,3-benzenedimethanamine and phenol ig (rat) ig (rat) (mouse) (rabbit) (rabbit) (rat) (rabbit) rat) aphnia magna) bo) ylamine) rat)	
Dermal Inhalative 57214-10- Oral Dermal Oral Dermal Inhalative	LC50/4 h 5 formalde LD50 Benzyl alco LD50 LD50 LC50/8h LC50/4 h LC50/48h M-phenyle LD50	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 1,040 mg/kg 1,040 mg/kg 1,040 mg/kg 2,000 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat) 360 mg/l (da 645 mg/l (go enebis(meth)	g/l er with 1,3-benzenedimethanamine and phenol ag (rat) g (rat) (mouse) (rabbit) (rat) (rabbit) rat) aphnia magna) bo) ylamine) rat) rat)	
Dermal Inhalative 57214-10- Oral Dermal Inhalative 1477-55-0 Oral Dermal	LC50/4 h -5 formalde LD50 LD50 Benzyl alco LD50 LC50/8h LC50/4 h LC50/48h LC50/48h LC50/48h LC50/48h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 1,040 mg/kg 1,040 mg/kg 1,040 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat) 360 mg/l (da 645 mg/l (go enebis(meth) 930 mg/kg (r 150 mg/kg (r	g/l er with 1,3-benzenedimethanamine and phenol ig (rat) ig (rat) (mouse) (rabbit) (rat) (rat) (rabbit) rat) uphnia magna) oo ylamine) rat) rat) (rabbit)	
Dermal Inhalative 57214-10- Oral Dermal Inhalative 1477-55-0 Oral Dermal	LC50/4 h 5 formalde LD50 Benzyl alco LD50 LD50 LC50/8h LC50/4 h LC50/48h C50/48h LC50/48h LC50/48h	7,664 mg/kg 12.1-12.6 mg >2,000 mg/k >2,020 mg/k >2,020 mg/k 0hol 1,040 mg/kg 1,040 mg/kg 1,620 mg/kg 2,000 mg/kg 1,000 ppm (r 11 mg/l (rat) 360 mg/l (da 645 mg/l (go enebis(meth) 930 mg/kg (r 3,100 mg/kg	g/l er with 1,3-benzenedimethanamine and phenol ig (rat) ig (rat) (mouse) (rabbit) (rabbit) (rat) (rabbit) rat) phnia magna) po) ylamine) rat) rat) (rabbit) (rabbit))	

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI®

Trade name: Akepox 2000 Component B				
		(Contd. of page 9)		
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)		
108-95-2 phenol				
Oral	LD50	300 mg/kg (mouse)		
		317 mg/kg (rat)		
Dermal	LD50	630 mg/kg (rat)		
Inhalative	LC50/4 h	316 mg/l (rat)		
		0.9 mg/l (rat)		
Primary irr	itant effect:			
Skin corros				
Serious eye damage/irritation		irritation Causes serious eye damage.		
 Respirator 	y or skin se	ensitisation May cause an allergic skin reaction.		
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)				
Germ cell	mutagenici	ty Suspected of causing genetic defects.		
 Carcinoge 	nicity	Based on available data, the classification criteria are not met.		
 Reproduct 	ive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.		
 STOT-sing 	gle exposur			
STOT-repeated exposure		sure 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 toxic 	ity:
	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, eaction 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)
57214-10-5 f	ormaldehyde polymer with 1,3-benzenedimethanamine and phenol
EC50	491.3 mg/l (BES)
EC50/48h	29.8 mg/l (daphnia magna)
EC50/72h	20.4 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	25.9 mg/l (Oncorhynchus mykiss)
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)
	(Contd. on page 11)

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI®

Trade name: Akepox 2000 Component B			
		(Contd. of page 10)	
IC5/96h	640 mg/l (Scenedesi		
NOEC	310 mg/kg (Pseudokirchneriella subcapitata)		
NOEC/21d	51 mg/l (daphnia magna) (OECD211)		
EC50/72h	770 mg/l (green alge) (OECD 201)	
		chneriella subcapitata)	
LC50/96h	645 mg/l (goo)		
	10 mg/l (lepomis macrochirus)		
	460 mg/l (Pimephale	,	
1477-55-0 n	n-phenylenebis(meth	· · ·	
EC50/48h	15.2 mg/l (daphnia m		
EC50/72h	12 mg/l (Scenedesm	o ,	
	20.3 mg/l (selenastru	. ,	
LC50/96h	>100 mg/l (Oncorhyr		
2000/0011	87.6 mg/l (Oryzias la		
	>100 mg/l (Zebrabär		
84852-15-3	4-nonylphenol, bran		
EC50/96h	0.41 mg/l (green alge		
EC50/48h	0.14 mg/l (daphnia m	·	
NOEC/21d	0.024 mg/l (daphnia n	e ,	
EC50/72h	1.3 mg/l (Scenedesn		
LC50/96h	0.135 mg/l (Pimepha		
108-95-2 ph	e (1	lies prometas)	
EC50/24h	21 mg/l (BO)		
	• • •		
EC50/96h	61.1 mg/l (green alge	·	
EC50/48h	3.1 mg/l (daphnia ma		
LC50/96h	8.9 mg/l (Oncorhync	nus mykiss)	
 <u>12.2 Persist</u> degradabili 		No further relevant information available.	
	umulative potential	No further relevant information available.	
· 12.4 Mobilit		No further relevant information available.	
 Ecotoxical e 	ffects:		
• <u>Remark:</u>		Harmful to fish	
· General note	cological information:	Do not allow product to reach ground water, water course or sewage system.	
	<u></u>	Harmful to aquatic organisms	
		Water hazard class 2 (German Regulation) (Self-assessment): hazardous for	
1055		water	
• <u>12.5 Result</u> • PBT:	s of PBT and vPvB as	ssessment Not applicable.	
• <u>PB1.</u> • vPvB:		Not applicable.	
	adverse effects	No further relevant information available.	
SECTION 1	3: Disposal consider	ations	
	-		
· Recommend	treatment methods	Must not be disposed together with household garbage. Do not allow product to	
		reach sewage system.	
· European w	aste catalogue		
20 00 00 M	UNICIPAL WASTES	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND FES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
LL		(Contd. on page 12)	
		GB	

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

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

AKEMI®

Trade name: Akepox 2000 Component B				
	(Contd. of page 11)			
20 01 00 separately collected fractions (except 15 01)				
20 01 27* paint, inks, adhesives and resins containing hazardous substances				
the	Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Alcohol acetone			
SECTION 14: Transport information				
· 14.1 UN-Number · ADR, IMDG, IATA	UN2735			
 14.2 UN proper shipping name 				
· <u>ADR</u> · <u>IMDG</u>	2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m- phenylenebis(methylamine), ISOPHORONEDIAMINE), ENVIRONMENTALLY HAZARDOUS AMINES, LIQUID, CORROSIVE, N.O.S. (m- phenylenebis(methylamine), ISOPHORONEDIAMINE), MARINE POLLUTANT			
• <u>IATA</u>	AMINES, LIQUID, CORROSIVE, N.O.S. (m- phenylenebis(methylamine), ISOPHORONEDIAMINE)			
· 14.3 Transport hazard class(es)				
- <u>ADR, IMDG</u>				
· <u>Class</u> · <u>Label</u>	8 Corrosive substances. 8			
· IATA				
· Class · Label	8 Corrosive substances. 8			
· 14.4 Packing group · ADR, IMDG, IATA	III			
 • 14.5 Environmental hazards: • Marine pollutant: 	No Symbol (fish and tree)			
 Special marking (ADR): 	Symbol (fish and tree)			
 • 14.6 Special precautions for user • Danger code (Kemler): • EMS Number: • Segregation groups • Stowage Category • Segregation Code 	Warning: Corrosive substances. 80 F-A,S-B Alkalis A SG35 Stow "separated from" acids.			
 14.7 Transport in bulk according to Marpol and the IBC Code 	Annex II of Not applicable.			
	(Contd. on page 13)			

Printing date 12.07.2018

Version number 6

Revision: 12.07.2018

	(Contd. of page 1
<u>Transport/Additional information:</u>	
 <u>ADR</u> <u>Limited quantities (LQ)</u> <u>Excepted quantities (EQ)</u> 	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<u>Transport category</u> <u>Tunnel restriction code</u>	3 E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	5L 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. (M PHENYLENEBIS(METHYLAMINE), ISOPHORONEDIAMINE), 8 III, ENVIRONMENTALLY HAZARDOUS
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the 	nental regulations/legislation specific for the substance or mixture None of the ingredients is listed. E2 Hazardous to the Aquatic Environment
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII Regulation (EU) No 649/2012 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII Regulation (EU) No 649/2012 84852-15-3 4-nonylphenol, branch National regulations: 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3 ned Annex I Part Annex I Part Employment restrictions concerning juveniles must be observed.
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII Regulation (EU) No 649/2012 84852-15-3 4-nonylphenol, branch National regulations: 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3 ned Annex I Part Annex I Part Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII Regulation (EU) No 649/2012 84852-15-3 4-nonylphenol, branch National regulations: Information about limitation of use: Waterhazard class: Substances of very high concern (Second Second Se	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3 hed Annex I Part Annex I Part Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must observed. Water hazard class 2 (Self-assessment): hazardous for water. SVHC) according to REACH, Article 57
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII Regulation (EU) No 649/2012 84852-15-3 4-nonylphenol, branch National regulations: Information about limitation of use: Waterhazard class: Substances of very high concern (\$ 84852-15-3 4-nonylphenol, branch 	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3 ned Annex I Part Annex I
 Directive 2012/18/EU Named dangerous substances - ANNEX I Seveso category Qualifying quantity (tonnes) for the application of lower-tier requirements Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX XVII Regulation (EU) No 649/2012 84852-15-3 4-nonylphenol, branch National regulations: Information about limitation of use: Waterhazard class: Substances of very high concern (Second Second Se	None of the ingredients is listed. E2 Hazardous to the Aquatic Environment 200 t 500 t Conditions of restriction: 3 hed Annex I Part Annex I Part Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must observed. Water hazard class 2 (Self-assessment): hazardous for water. SVHC) according to REACH, Article 57

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.

<u>Relevant phrases</u>

H301 Toxic if swallowed.



	Safety data sheet according to 1907/2006/EC, Article 31	
Printing date 12.07.2018	Version number 6	Revision: 12.07.2018
Trade name: Akepox 2000 Compon	ent B	
	H302 Harmful if swallowed.	(Contd. of page 13)
	 H311 Toxic in contact with skin. 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. H341 Suspected of causing genetic defects. H361fd Suspected of damaging fertility. Suspected child. H373 May cause damage to organs through proloin H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effected. 	ed of damaging the unborn nged or repeated exposure. ects.
• Recommended restriction of use	refer to Technical Data Sheet (TDS)	ι δ.
 <u>Department issuing SDS:</u> <u>Contact:</u> 	Laboratory Dieter Zimmermann Elke Hake Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de	
 <u>Abbreviations and acronyms:</u> 	ADR: Accord européen sur le transport des marchandises d Agreement concerning the International Carriage of Dangerous G IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling EINECS: European Inventory of Existing Commercial Chemical S ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chem 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 1 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 2 Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Specific target organ toxicity (repeated exposure) – 0 Aquatic Acute 1: Hazardous to the aquatic environment - acute ar Aquatic Chronic 2: Hazardous to the aquatic environment - long-t	Goods by Road) g of Chemicals Substances nical Society) Category 2 quatic hazard – Category 1 term aquatic hazard – Category 1 term aquatic hazard – Category 1
 * Data compared to the previous 	Aquatic Chronic 3: Hazardous to the aquatic environment - long-t	erm aquatic hazard – Category 3

 * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC



GB