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Printing date 13.05.2020	Version number 5	Revision: 13.05.2020
SECTION 1: Identification of the	substance/mixture and of the company/undertakin	g
 1.1 Product identifier Trade name: 	Akepox Colouring pastes	
<u>Article number:</u> 1.2 Relevant identified uses of	11220, 11221, 11222, 11223, 11224, 11225, 11226, 1	11227, 11228
the substance or mixture and uses advised against · Application of the substance / the	No further relevant information available.	
mixture	Stainer	
<u>1.3 Details of the supplier of the</u> Manufacturer/Supplier:	<u>safety data sheet</u> 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: 1.4 Emergency telephone 	Laboratory	
<u>number:</u>	Product Safety Department AKEMI chemisch technise 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	che Spezialfabrik GmbH
GHS09 environment Aquatic Chronic 2 H411 Toxic to a	aquatic life with long lasting effects.	
GHS07		
-	skin irritation. serious eye irritation. se an allergic skin reaction.	
• 2.2 Label elements		
Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms	The product is classified and labelled according to the	e CLP regulation.
Circultured	GHS07 GHS09	
 <u>Signal word</u> <u>Hazard-determining components</u> of labelling: 	Warning bis[4-(2,3-epoxypropoxy)phenyl]propane Reaction mass of 2,2'-[methylenebis(4,1-phenyleneox) [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}n [methylenebis(2,1-phenyleneoxymethylene)]dioxirane Reaction products of hexane-1,6-diol with 2-(chlorom	nethyl)oxirane and [2,2'-

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 Hazard statements 	H315 Causes s	kin irritation.
	H319 Causes s	erious eye irritation.
	H317 May caus	se an allergic skin reaction.
		aquatic life with long lasting effects.
 Precautionary statements 	P261	Avoid breathing vapours.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face
	. 200	protection.
	P302+P352	IF ON SKIN: Wash with plenty of water.
		338 IF IN EYES: Rinse cautiously with water for several minutes.
		Remove contact lenses, if present and easy to do. Continue
		rinsing.
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P501	Dispose of contents/container in accordance with local/
		regional/national/international regulations.
· 2.3 Other hazards		
Results of PBT and vPvB asse	essment	
· PRT·	Not applicable	

PBT:	Not applicable
	Not oppligable

• <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: 1675-54-3 EINECS: 216-823-5 Index number: 603-073-00-2 Reg.nr.: 01-2119456619-26-xxxx	bis[4-(2,3-epoxypropoxy)phenyl]propane Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
EC number: 701-263-0 Reg.nr.: 01-2119454392-40-0003	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)] dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl) oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)] dioxirane Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	12.5-25%
CAS: 933999-84-9 EC number: 618-939-5 Reg.nr.: 01-2119463471-41-0005	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1: 2) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412	<10%
 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.
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.
<u>After eye contact:</u>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
 After swallowing: 	Rinse out mouth and then drink plenty of water.
• 4.2 Most important symptoms	
and effects, both acute and	
delayed	Allergic reactions
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 Information for doctor: 	(Contd. of page 2) Bisphenol-A based resins: Inhalation, swallowing or dermal incorporation may cause health damage. Irritates respiratory tract, digestion system, eyes and skin: e.g., cough, dyspnea, lacrimation, burning. May cause health interferences such as dermal changes, renal, hepatic damage, and blood count changes. May provoke skin allergies. Sensitized users can react towards very low concentrations of Bisphenol-A-Epichlorhydrine and should avoid any further contact with this chemical. The sensitizing effect of epoxide based resins is mainly caused by the concentration of epoxy resin polymers with a specific molecular weight ≤ 300. The observed allergic dermal and respiratory appearances should be treated symptomatically in dependence of the severity. An epoxy resin based allergic disease belongs to a cell mediated (interaction of lymphocytes) type IV allergy.
• <u>Hazards</u>	Danger of impaired breathing. Skin contact with polyester and epoxy resin solutions as ingredient of the product should be avoided due to risks of skin irritations or allergic skin appearances. If occasional hand contact can not be avoided, protection gloves, proper protection ointments and protective agents generating a protective layer on the skin were applied.
 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
 <u>5.1 Extinguishing media</u> <u>Suitable extinguishing agents:</u> 	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2 Special hazards arising from	
the substance or mixture	Formation of toxic gases is possible during heating or in case of fire. In case of fire, the following can be released: Carbon monoxide (CO)
	Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.: Hydrogen chloride (HCI)
· 5.3 Advice for firefighters	
Protective equipment:	Wear fully protective suit. Wear self-contained respiratory protective device.
Additional information	Do not inhale explosion gases or combustion gases. 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	Not required.
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).
	Ensure adequate ventilation.
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<u>ade name:</u> A	kepox Colouring past	es	
			(Contd. of page
· 6.4 Referen	nce to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipr	
		See Section 13 for disposal information.	
SECTION 7	': Handling and storag	e	
· 7.1 Precaut	tions 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	Ensure good vertilation/exitation at the workplace.	
explosion p	rotection:	No special measures required.	
7.2 Condition Storage:	ons for safe storage, i	ncluding any incompatibilities	
	nts to be met by		
	and receptacles:	Store only in the original receptacle.	
		Prevent any seepage into the ground.	
	about storage in one prage facility:	Store away from reducing agents.	
<u>common sic</u>	Drage racinty.	Store away from foodstuffs.	
	rmation about storage		
conditions:		Store receptacle in a well ventilated area.	
7 2 Specific	c end use(s)	Keep container tightly sealed. No further relevant information available.	
- <u>7.5 Specific</u>			
SECTION 8	8. Exposure controls/n	ersonal protection	
· Additional ir	B: Exposure controls/p nformation about chnical facilities:		
· Additional ir design of te	nformation about chnical facilities:	ersonal protection No further data; see item 7.	
 Additional ir design of te 8.1 Control 	nformation about chnical facilities:		
Additional ir design of te 8.1 Control Ingredients	nformation about chnical facilities:	No further data; see item 7.	
Additional ir design of te 8.1 Control Ingredients	nformation about chnical facilities: I parameters with limit values that	No further data; see item 7. The product does not contain any relevant quantities of r	materials with critic
 Additional ir design of te 8.1 Control Ingredients require mon workplace: 	nformation about chnical facilities: I parameters with limit values that	No further data; see item 7.	materials with critic
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 Additional ir design of te 8.1 Control Ingredients require mon workplace: DNELs 1675-54-3 k 	nformation about chnical facilities: I parameters with limit values that hitoring at the pis[4-(2,3-epoxypropo	No further data; see item 7. The product does not contain any relevant quantities of values that have to be monitored at the workplace.	materials with critic
Additional in design of te 8.1 Control Ingredients require mon workplace: DNELs 1675-54-3 te Oral E	nformation about chnical facilities: I parameters with limit values that nitoring at the Dis[4-(2,3-epoxypropo) DNEL (Kurzzeit-akut)	No further data; see item 7. The product does not contain any relevant quantities of r values that have to be monitored at the workplace. ky)phenyl]propane 0.5 mg/kg bw/day (BEV)	materials with critic
Additional ir design of te 8.1 Control Ingredients require mon workplace: DNELs 1675-54-3 te Oral	nformation about chnical facilities: l parameters with limit values that nitoring at the bis[4-(2,3-epoxypropo DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederf	No further data; see item 7. The product does not contain any relevant quantities of revealers that have to be monitored at the workplace. xy)phenyl]propane 0.5 mg/kg bw/day (BEV) 0.75 mg/kg bw/day (BEV)	materials with critic
Additional ir design of te 8.1 Control Ingredients require mon workplace: DNELs 1675-54-3 te Oral	nformation about chnical facilities: I parameters with limit values that nitoring at the Dis[4-(2,3-epoxypropo) DNEL (Kurzzeit-akut)	No further data; see item 7. The product does not contain any relevant quantities of revalues that have to be monitored at the workplace. xy)phenyl]propane 0.5 mg/kg bw/day (BEV) 0.75 mg/kg bw/day (BEV) 8.33 mg/kg bw/day (ARB)	materials with critic
Additional ir design of te 8.1 Control Ingredients require mon workplace: DNELs 1675-54-3 te Oral Dermal	nformation about chnical facilities: l parameters with limit values that hitoring at the bis[4-(2,3-epoxypropo) DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederf DNEL (Kurzzeit-akut)	No further data; see item 7. The product does not contain any relevant quantities of revalues that have to be monitored at the workplace. xy)phenyl]propane 0.5 mg/kg bw/day (BEV) 0.75 mg/kg bw/day (BEV) 8.33 mg/kg bw/day (ARB) 3.571 mg/kg bw/day (BEV)	materials with critic
Additional ir design of te 8.1 Control Ingredients require mon workplace: DNELs 1675-54-3 te Oral Dermal	nformation about chnical facilities: l parameters with limit values that nitoring at the bis[4-(2,3-epoxypropo DNEL (Kurzzeit-akut) DNEL (Langzeit-wiederf	No further data; see item 7. The product does not contain any relevant quantities of revalues that have to be monitored at the workplace. xy)ph=nyl]propane 0.5 mg/kg bw/day (BEV) 0.75 mg/kg bw/day (BEV) 8.33 mg/kg bw/day (BEV) 8.33 mg/kg bw/day (ARB) 3.571 mg/kg bw/day (ARB) 0.75 mg/kg bw/day (ARB)	materials with critic
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			8.7 mg/m ³ Air (BEV)	(Contd. of page
933999-84	1-9 Rea	ction products of he	cane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	
Oral		(Kurzzeit-akut)	0.83 mg/kg bw/day (BEV)	
		(Langzeit-wiederholt)	0.83 mg/kg bw/day (BEV)	
Dermal		(Kurzzeit-akut)	1.7 mg/kg bw/day (BEV)	
Donnai		· · · ·	2.8 mg/kg bw/day (ARB)	
	DINEE	(Langzon modernon)	1.7 mg/kg bw/day (BEV)	
Inhalativa		(Kurzzeit-akut)	4.9 mg/m ³ Air (ARB)	
minalative	DINLL	(Ruizzeil-akul)	2.9 mg/m ³ Air (BEV)	
			- · · · ·	
	DNEL	(Langzeit-wiederholt)	4.9 mg/m ³ Air (ARB)	
			2.9 mg/m³ Air (BEV)	
<u>PNECs</u>				
		2,3-epoxypropoxy)pł	nenyl]propane	
PNEC (wä	issrig)	10 mg/l (KA)		
		0.0006 mg/l (MW)		
		0.006 mg/l (SW)		
	(0.018 mg/l (WAS)		
PNEC (fes	st) (0.065 mg/kg Trockeng	ew (BO)	
	(0.034 mg/kg Trockeng	ew (MWS)	
	(0.341 mg/kg Trockeng	ew (SWS)	
			4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(ox kirane and [2,2'-[methylenebis(2,1-phenyleneoxymethyle	
PNEC (wä	issrig)	10 mg/l (KA)		
	(0 mg/l (MW)		
	(0.003 mg/l (SW)		
	(0.025 mg/l (WAS)		
PNEC (fes	st) (0.237 mg/kg Trockeng	ew (BO)	
,	· ·	0.029 mg/kg Trockeng	ew (MWS)	
		0.294 mg/kg Trockeng		
933999-84			cane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	
		1 mg/l (KA)	······ ·······························	
		0.00115 mg/l (MW)		
		0.0115 mg/l (SW)		
		0.115 mg/l (WAS)		
PNEC (fes		0.223 mg/kg Trockeng	ew (BO)	
	· ·	0.0283 mg/kg Trocken		
		0.283 mg/kg Trockeng		
Additional			lists valid during the making were used as basis.	
			lists valid during the making were used as basis.	
8.2 Expos		n trois /e equipment:		
		e and hygienic		
measures:			not eat, drink, smoke or sniff while working.	
	-	Use	skin protection cream for skin protection.	
			an skin thoroughly immediately after handling the product.	
			p away from foodstuffs, beverages and feed.	
			ediately remove all soiled and contaminated clothing sh hands before breaks and at the end of work.	
			not inhale gases / fumes / aerosols.	
		201		
			id contact with the eyes and skin.	



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<u>Respiratory protection:</u>	(Contd. of page 5) 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. Short term filter device:
Protection of hands:	Filter A/P2 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: Kresto Classic (http://debstoko.com)
	Skin protection agent recommendation for skin aftercare: STOKO VITAN (http://www.stoko.com)
	The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL
	GmbH in compliance with EN374. This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).
	Protective gloves
	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
 Material of gloves 	Butyl rubber, BR Chloroprene rubber, CR
	Nitrile rubber, NBR The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material	Value for the permeation: Level \leq 6, 480 min The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· For the permanent contact gloves	
made of the following materials are	
suitable:	Butyl rubber, BR Butoject (KCL, Art_No. 897, 898) Nitrile rubber, NBR
	Dermatril (Art_No. 740, 741, 742) Camatril (KCL, Art_No. 730, 731, 732, 733) Chloroprene rubber, CR
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	Camapren (KCL, Art_No. 720, 722, 726)	(
 As protection from splashes gloves made of the following materials are 		
suitable:	Nitrile rubber, NBR	
	Dermatril (KCL, Art_No. 740, 741, 742)	
	Camatril (KCL, 730, 731, 732, 733) Natural rubber, NR	
	Combi-Latex (KCL, Art_No. 395)	
 Not suitable are gloves made of 	· · _ /	
the following materials:	Leather gloves Strong material gloves	
Eye protection:	Stiong material gloves	
	Tightly sealed goggles	
Body protection:	Protective work clothing	
SECTION 9: Physical and chemic	cal properties	
• 9.1 Information on basic physica • General Information	I and chemical properties	
· Appearance:		
Form:	Pasty	
<u>Colour:</u> · Odour:	Different according to colouring Characteristic	
· pH-value:	Not applicable	
<u>Change in condition</u> Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling rar		
Flash point:	Not applicable.	
Ignition temperature:	>300 °C	
Decomposition temperature:	> 200 °C °C	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
· Vapour pressure at 20 °C:	2 hPa	
· <u>Density at 20 °C:</u>	1.57 g/cm³ ([1,43-1,78 g/cm³])	
Solubility in / Miscibility with	Niet wie die la en aller is die te sei	
water:	Not miscible or difficult to mix.	
<u>Viscosity:</u> Dynamic at 20 °C:	23,000 mPas	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
Solids content:	49.8 %	
<u>9.2 Other information</u>	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

No further relevant information available.

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10.2 Chemical stability		
<u>Thermal decomposition /</u>		
conditions to be avoided:	No decomposition if used and stored according to specifications.	
10.3 Possibility of hazardous	Manual and the first second	
reactions	May produce violent reactions with bases and numerous organic substances	
10.1 Conditions to sweid	including alcohols and amines.	
 <u>10.4 Conditions to avoid</u> <u>10.5 Incompatible materials</u>: 	No further relevant information available. No further relevant information available.	
• 10.6 Hazardous decomposition		
products:	Irritant gases/vapours	
	intan gases/vapours	
SECTION 11: Toxicological info	rmation	
· 11.1 Information on toxicologica	al effects	
Acute toxicity	Based on available data, the classification criteria are not met.	
 <u>LD/LC50 values relevant for class</u> 	ification:	
1675-54-3 bis[4-(2,3-epoxypropo	oxy)phenyl]propane	
Oral LD50 15,000 mg/kg (rat)		
Dermal LD50 23,000 mg/kg (rabl	pit)	
Oral LD50 >5,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat)	hyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	
Oral LD50 2,190 mg/kg (rat)		
	- :4)	
Dermal LD50 >2,000 mg/kg (rabl	Dit)	
Primary irritant effect:		
• Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/irritation	Causes serious eye irritation.	
<u>Respiratory or skin sensitisation</u> <u>CMD effects (apreing applity, muto</u>)	May cause an allergic skin reaction.	
Germ cell mutagenicity	genicity and toxicity for reproduction) 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.	
· 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:		
1675-54-3 bis[4-(2,3-epoxypropc	oxy)phenyl]propane	
IC50 >100 mg/l (BES)		

EC10/16h	100 mg/l	(pseudomonas	putida)
	100 mg/i	(pseudomonas)	pullua

EC50/48h 1.8 mg/l (daphnia magna)

NOEC/21d 0.3 mg/l (daphnia magna)

EC50/72h 11 mg/l (selenastrum capricornutum)

LC50/96h 2 mg/l (Oncorhynchus mykiss)

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		ebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- hyl)oxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
EC50/48h	2.55 mg/l (daphnia ma	agna)
EC50/72h	1.8 mg/l (green alge)	
LC50/96h	2.54 mg/l (piscis)	
933999-84	9 Reaction products	of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
EC50/48h	23.1 mg/l (green alge)	
	47 mg/l (daphnia mag	na)
LC50/96h	30 mg/l (Leuciscus idu	IS)
· 12.2 Persis		·
degradabi	lity	No further relevant information available.
· 12.3 Bioac	cumulative potential	No further relevant information available.
· 12.4 Mobil	ity in soil	No further relevant information available.
 Ecotoxical 	effects:	
 Remark: 		Toxic for fish
 Additional e 	ecological information:	
· <u>General no</u>	tes:	Do not allow product to reach ground water, water course or sewage system. Also poisonous for fish and plankton in water bodies.
		Toxic for aquatic organisms
		Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
. 12 5 Resul	ts of PBT and vPvB as	
· PBT:		Not applicable.
$\cdot \frac{1}{VPVB}$:		Not applicable.
· 12.6 Other	adverse effects	No further relevant information available.
· 13.1 Waste	SECTION 13: Disposal considerations <u>13.1 Waste treatment methods</u> 	

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	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS	
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)	
08 04 09*	08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances	
Uncleaned packaging: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.		

SECTION 14: Transport information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN3082
 <u>14.2 UN proper shipping name</u> <u>ADR</u> 	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, Reaction mass of 2,2'-[methylenebis(4,1-
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• _ • <u>IMDG</u>	phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2- ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2,2'- [methylenebis(2,1-phenyleneoxymethylene)]dioxirane) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and
• <u>IATA</u>	[2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methylonoxirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis[4-(2,3-epoxypropoxy)phenyl]propane, Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and [2-('-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane)]
· 14.3 Transport hazard class(es)	
· ADR	
· <u>Class</u> · Label	9 (M6) Miscellaneous dangerous substances and articles. 9
• IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
• 14.4 Packing group • ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	Yes Sumbol (fish and trac)
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
 • 14.6 Special precautions for user • Hazard identification number (Kemler code): • EMS Number: • Stowage Category 	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
• 14.7 Transport in bulk according to Annex II Marpol and the IBC Code	of Not applicable.
Transport/Additional information:	
 ADR 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
Transport category	3
<u>Tunnel restriction code</u>	-
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Safety data sheet

according to 1907/2006/EC, Article 31

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 <u>IMDG</u> 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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIS[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE, REACTION MASS OF 2,2'-[METHYLENEBIS(4,1- PHENYLENEOXYMETHYLENE)]DIOXIRANE AND [2-({2-[4- (OXIRAN-2-YLMETHOXY)BENZYL]PHENOXY}METHYL) OXIRANE AND [2,2'-[METHYLENEBIS(2,1- PHENYLENEOXYMETHYLENE)]DIOXIRANE), 9, III

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 	E2 Hazardous to the Aquatic Environment
· Qualifying quantity (tonnes) for the	
application of lower-tier	
requirements	200 t
Qualifying quantity (tonnes) for the	
application of upper-tier	
requirements	500 t
 <u>REGULATION (EC) No 1907/2006</u> 	
ANNEX XVII	Conditions of restriction: 3
 National regulations: 	
Information about limitation of use:	Employment restrictions concerning pregnant and lactating women must be observed.
	Employment restrictions concerning juveniles must be observed.
 Waterhazard class: VOC EU 15.2 Chemical safety 	Water hazard class 2 (Self-assessment): hazardous for water. 0.0 g/l
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 	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H319 Causes serious eye irritation.
	H411 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:	Elke Hake
	Fon ++49 (0)911 64296-59
	@mail E.Hake@akemi.de
Abbreviations and acronyms:	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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	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
	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
	Skin Irrit. 2: Skin corrosion/irritation – Category 2
	Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
	Skin Sens. 1: Skin sensitisation – Category 1
	Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – 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
	GB

