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-					
1 Identification					
· Product identifier					
Trade name:	Akepox 5000 Component A				
Article number: Relevant identified uses of the substance or mixture and uses	10681, 10682				
advised against • Application of the substance / the	No further relevant information available.				
mixture	Epoxy resin adhesive				
· Details of the supplier of the saf	ety data sheet				
• Manufacturer/Supplier:	AKEMI chemisch technische Spezialfabrik GmbHTel. +49(0)911-642960Lechstrasse 28Fax. +49(0)911-644456D 90451 Nürnberge-mail info@akemi.de				
 Information department: Emergency telephone number: 	Laboratory 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.				
2 Hazard(s) identification					
· Classification of the substance	or mixture				
GHS07					
Skin Irrit. 2 H315 Causes skin i	rritation.				
Eye Irrit. 2A H319 Causes serio	us eye irritation.				
Skin Sens. 1 H317 May cause ar	allergic skin reaction.				
Classification according to Directiv	/e 67/548/EEC or Directive 1999/45/EC				
Irritant					
Irritating to eyes and skin. May cau	use sensitization by skin contact.				
Dangerous for the environme	nt				
	ause long-term adverse effects in the aquatic environment.				
Information concerning particular hazards for human and					
environment:	Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.				
Classification system:	The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. The classification was made according to the latest editions of international				
_	substances lists, and expanded upon from company and literature data.				
· Label elements					
· GHS label elements	The product is classified and labeled according to the Globally Harmonized System (GHS).				
Hazard pictograms	GHS07				
· Signal word	Warning				
Hazard-determining components					
of labeling: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number aver molecular weight = 700)					
	Cyclohexandimethanol-diglycidylether (Contd. on page 2)				

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Hazard statements			ntd. of pag	
Hazard statements	H315 Causes s			
	H319 Causes serious eye irritation.			
	H317 May cause an allergic skin reaction.			
Precautionary statements	P101	If medical advice is needed, have product contai	ner or la	
	D 100	at hand.		
	P102	Keep out of reach of children.		
	P103	Read label before use.		
	P280	Wear protective gloves/protective clothing/eye pro	tection/fa	
	P261	protection.		
		Avoid breathing vapours. 338 IF IN EYES: Rinse cautiously with water for sever	rol minut	
	F300+F301+F	Remove contact lenses, if present and easy to de		
		rinsing.		
	P333+P313	If skin irritation or rash occurs: Get medical advice		
	P337+P313	If eye irritation persists: Get medical advice/attenti	on.	
	P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
	P501	Dispose of contents/container in accordance	with loc	
		regional/national/international regulations.		
Classification system:	A LI.	aalth 1		
NFPA ratings (scale 0 - 4)	Health = 1 Fire = 0			
		eactivity = 0		
		eactivity = 0		
HMIS-ratings (scale 0 - 4)	HEALTH 1	Health = 1		
	FIRE 0 F	Fire = 0		
		Reactivity = 0		
Other hazards				
Results of PBT and vPvB ass	rocemont			
PBT:	Not applicable.			
vPvB:	Not applicable.			
<u></u>				
Composition/information of	n ingredients			
Chemical characterization:	Mixtures			
Description:		substances listed below with nonhazardous additions.		
Dangerous components:				
CAS: 25068-38-6		isphenol-A-(epichlorhydrin) epoxy resin (number	50-100	
NLP: 500-033-5	average molecular w			
Index number: 603-074-00-8	🗙 Xi R36/38-43; 🌄 N R51/53			
	•	; Eye Irrit. 2, H319; Skin Sens. 1, H317		
CAS: 14228-73-0			12.5-25	
	Xi R36/38-43			
	R52/53			
		; Eye Irrit. 2A, H319; Skin Sens. 1, H317		
	(Skin Irrit. 2, H315;		<1%	
CAS: 2530-83-8	•	/)propyl]trimethoxysilane	<170	
	[3-(2,3-epoxypropoxy		<170	
CAS: 2530-83-8 EINECS: 219-784-2	[3-(2,3-epoxypropoxy Xi R36; 🌄 N R51/	/53	<170	
	[3-(2,3-epoxypropoxy Xi R36; N R51/ Flam. Liq. 3, H226		<1%	

• Description of first aid measures • General information:

Take affected persons out into the fresh air. Position and transport stably on side.

Immediately remove any clothing soiled by the product.

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Trade name: Akepox 5000 Component A • After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient transportation.

(Contd. of page 2)

	(Contd. on page 4) USA
· Environmental precautions:	Use respiratory protective device against the effects of fumes/dust/aerosol. Do not allow to penetrate the ground/soil.
equipment and emergency procedures	Ensure adequate ventilation
• Personal precautions, protective	
6 Accidental release measures	
	Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
· Additional information	Collect contaminated fire fighting water separately. It must not enter the sewage system.
	Wear self-contained respiatory protective device. Do not inhale explosion gases or combustion gases.
Advice for firefighters Protective equipment:	Wear fully protective suit.
	Hydrogen chloride (HCI) In certain fire conditions, traces of other toxic gases cannot be excluded.
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)
· Special hazards arising from the	
Extinguishing media Suitable extinguishing agents:	CO2, extinguishing powder or water spray. Fight larger fires with water spray or
5 Fire-fighting measures	
medical attention and special treatment needed	If swallowed, gastric irrigation with added, activated carbon.
Danger Indication of any immediate	Danger of impaired breathing.
	Coughing Allergic reactions
 Most important symptoms and effects, both acute and delayed 	Breathing difficulty
	concentration of epoxy resin polymers with a specific molecular weight \leq 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.
	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
	as dermal changes, renal, hepatic damage, and blood count changes. May provoke skin allergies. Sensitized users can react towards very low
	cause health damage. Irritates respiratory tract, digestion system, eyes and skin: e.g., cough, dyspnea, lacrimation, burning. May cause health interferences such
<u>After swallowing:</u> Information for doctor:	Rinse out mouth and then drink plenty of water. Bisphenol-A based resins: Inhalation, swallowing or dermal incorporation may
· After eye contact:	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After skin contact:	If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly.
	In case of unconsciousness place patient stably in side position for transportation.
<u>After inhalation:</u>	Supply fresh air and to be sure call for a doctor.

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rade name: Akepox 5000 Component A			
	(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.		
Matheological metanial fam	Do not allow to enter sewers/ surface or ground water.		
Methods and material for	Dispass of the collected meterial according to regulations		
containment and cleaning up:	Dispose of the collected material according to regulations. Absorb with liquid-binding material (sand, diatomite, acid binders, univers		
	binders, sawdust).		
	Ensure adequate ventilation.		
Reference to other sections	See Section 13 for disposal information.		
	See Section 7 for information on safe handling.		
	See Section 8 for information on personal protection equipment.		
Handling and storage			
Handling:			
Precautions for safe handling	Keep receptacles tightly sealed.		
	Store in cool, dry place in tightly closed receptacles.		
	Ensure good ventilation/exhaustion at the workplace.		
Information about protection	J		
against explosions and fires:	No special measures required.		
Conditions for safe storage, incl	uding any incompatibilities		
Storage:			
Requirements to be met by			
storerooms and receptacles:	Store only in the original receptacle.		
Information about storage in and	Prevent any seepage into the ground.		
Information about storage in one common storage facility:	Store away from reducing agents		
common storage facility.	Store away from reducing agents. Store away from foodstuffs.		
Further information about storage			
conditions:	Store receptacle in a well ventilated area.		
	Keep receptacle tightly sealed.		
Specific end use(s)	No further relevant information available.		
Exposure controls/personal prot	tection		
Additional information about			
design of technical systems:	No further data; see item 7.		
Control parameters			
Components with limit values that			
require monitoring at the			
workplace:	The product does not contain any relevant quantities of materials with critic		
Additional information:	values that have to be monitored at the workplace. The lists that were valid during the creation were used as basis.		
Exposure controls			
Personal protective equipment:			
General protective and hygienic			
measures:	Do not eat, drink, smoke or sniff while working.		
	Apply solvent resistant skin cream before beginning work.		
	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.		
	Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.		
	Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.		
Breathing equipment:	Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols.		

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ade name: Akepox 5000 Compone	ent A
	(Contd. of pag
	Filter A/P2
	In case of brief exposure or low pollution use respiratory filter device. In case
	intensive or longer exposure use respiratory protective device that
Droto stion of bondo	independent of circulating air.
Protection of hands:	Preventive skin protection by use of skin-protecting agents is recommended.
	After use of gloves apply skin-cleaning agents and skin cosmetics.
	Akemi skin protection agent recommendation for preventive skin shelter application and combination of protective gloves:
	STOKO EMULSION (http://www.stoko.com)
	Akemi skin protection recommendation for skin cleaning after product handling
	SLIG SPEZIAL (http://www.stoko.com)
	Akemi 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
	directive 89/686/EC and the directive derived decree EN374, respectively, e
	the above listed protection glove type. The mentioned permeation times' d
	were generated and verified with material samples of the recommend
	protection glove type in the scope of laboratory anylyses of the company k
	GmbH in compliance with EN374.
	This recommendation refers exclusively to the material safety data sh
	referenced product delivered by Akemi and the indicated field of application
	case of product dilution or in case of mixture with different substances
	chemicals, and in condition of EN374 deviation the producer of CE-appro-
	protection gloves must be contacted for detailed information (e.g., KCL Gm
	Germany, 36124 Eichenzell, internet: http://www.kcl.de).
	Protective gloves
	The glove material has to be impermeable and resistant to
	product/ the substance/ the preparation.
	Due to missing tests no recommendation to the glove material can
	given for the product/ the preparation/ the chemical mixture.
	Selection of the glove material on consideration of the penetral
	times, rates of diffusion and the degradation
Material of gloves	Butyl rubber, BR
	Fluorocarbon rubber (Viton)
	The selection of the suitable gloves does not only depend on the material,
	also on further marks of quality and varies from manufacturer to manufactu
	As the product is a preparation of several substances, the resistance of
	glove material can not be calculated in advance and has therefore to be chec
Departmention time of aloue motorial	prior to the application.
Penetration time of glove material	Value for the permeation: Level ≤ 6 , 480 min
	The exact break trough time has to be found out by the manufacturer of protective gloves and has to be observed.
For the permanent contact gloves	איטנטטוייב אוטיבט מוע וומט נט שב טשטבו יבע.
made of the following materials are	
suitable:	 Butyl rubber, BR
	Butoject (KCL, Art No. 897, 898)
	Fluorocarbon rubber (Viton)
	Vitoject (KCL, Art No. 890)
As protection from splashes gloves	
made of the following materials are	
suitable:	Nitrile rubber, NBR
	Camatril (KCL, 730, 731, 732, 733)
	Chloroprene rubber, CR
	Camapren (KCL, Art No. 720, 722, 726)
	(Contd. on pag

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Trade name: Akepox 5000 Component A			
		(Contd. of page 5)	
Not suitable are gloves made of			
the following materials:	Leather gloves		
Eve protection:	Strong gloves		
<u>Eye protection:</u>	Tightly sealed goggles		
Body protection:	Protective work clothing		
9 Physical and chemical propertie	25		
Information on basic physical a	nd chemical properties		
General Information			
· <u>Appearance:</u>	Fluid		
Form: Color:	Colorless		
· Odor:	Characteristic		
· pH-value:	Not applicable		
<u>Change in condition</u> Melting point/Melting range:	Undetermined.		
Boiling point/Boiling range:	Undetermined.		
Flash point:	Not applicable.		
· Auto igniting:	Product is not selfigniting.		
Danger of explosion:	Product does not present an explosion hazard.		
· <u>Vapor pressure at 20 °C (68 °F):</u>	2 hPa (2 mm Hg)		
· Density at 20 °C (68 °F):	1.15 g/cm ³ (9.597 lbs/gal)		
Specific gravity at 20 °C (68 °F):	1.15 g/cm ³ (9.597 lbs/gal)		
Solubility in / Miscibility with <u>Water:</u>	Not miscible or difficult to mix.		
• <u>Viscosity:</u> Dynamic at 20 °C (68 °F):	3900 mPas		
<u>Solvent content:</u> Organic solvents: Other information	0.0 % No further relevant information available.		

10 Stability and reactivity

· Reactivity

Chemical stability

 Thermal decomposition / conditions to be avoided:
 Possibility of hazardous

reactions

· Conditions to avoid

- · Incompatible materials:
- Hazardous decomposition products:

No decomposition if used and stored according to specifications.

May produce violent reactions with bases and numerous organic substances including alcohols and amines. Reacts with acids. Exothermic polymerization. No further relevant information available. No further relevant information available.

Irritant gases/vapors Carbon monoxide and carbon dioxide

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	Trade name: Akepox 5000 Component A					
	(Contd. of page) Hydrogen chloride (HCI)					
*	11 Toxicological information					
	Information on toxicological effects Acute toxicity:					
	· LD/LC5	0 value	es that are relevant for classification:			
	25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)					
Oral LD50 20000 mg/kg (mouse) 19800 mg/kg (rabbit) 11400 mg/kg (rat)						
	Dermal		 540 mg/kg (rat) (OECD 416) 1270 mg/kg (mouse) > 2000 mg/kg (rabbit) > 1200 mg/kg (rat) 			
	 Primary irritant effect: on the skin: on the eye: Sensitization: Additional toxicological information: 		effect: Irritant to skin and mucous membranes. Irritating effect. Sensitization possible through skin contact.	ally approved		
	<u>Carcinogenic categories</u> <u>IARC (International Agency for Research on Cancer)</u> None of the ingredients is listed.					
	· NTP (National Toxicology Program)					

None of the ingredients is listed.

12 Ecological information

· Toxicity

TOXICITY					
<u>Aquatic toxicity:</u>					
25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight					
	= 700)				
EC50/24h	24h 1.1-3.6 mg/l (daphnia magna)				
EC50/48h	2.8 mg/l (daphnia magna)				
EC50/72h	9.4 mg/l (selenastrum capricornutum)				
EC50/96h	h 220 mg/l (green alge)				
	3.6 mg/l (Leuciscus idus)				
IC50	>100 mg/l (bacteria)				
LC50/96h	n 1.3 mg/l (piscis)				
	1.5 mg/l (Oncorhynchus mykiss) (OECD 203)				
	1.5-7.7 mg/l (rainbow trout)				
NOEC	0.3 mg/kg (daphnia magna) (OECD 211)				
14228-73-0	0 Cyclohexandimethanol-diglycidylether				
LC50/96h	13 mg/l (piscis)				
· Persisten	• Persistence and degradability No further relevant information available.				
	(Contd. on page 8)				

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de name: Akepox 5000 Compor	
	(Contd. of page
Behavior in environmental syst	
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Ecotoxical effects:	
Remark:	Toxic for fish
Additional ecological informati	
General notes:	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 (Self-assessment): hazardous for water
Results of PBT and vPvB asses	
PBT:	Not applicable.
<u>vPvB:</u>	Not applicable.
Other adverse effects	No further relevant information available.
Disposal considerations	
Waste treatment methods	
Recommendation:	Must not be disposed of together with household gerbage. Do not allow produ
	Must not be disposed of together with household garbage. Do not allow produte reach sources average
	to reach sewage system.
Uncleaned packagings:	
Recommendation:	Empty contaminated packagings thoroughly. They can be recycled aft
	thorough and proper cleaning.
	מוטוטעקוו מווע דוטדבו טבמווווק.
Decommonded cleansing accent	
Recommended cleansing agent:	Alcohol acetone
Recommended cleansing agent: Transport information	Alcohol
Transport information	Alcohol
Transport information	Alcohol acetone
Transport information <u>UN-Number</u> DOT	Alcohol acetone Void
Transport information UN-Number DOT ADR, IMDG, IATA	Alcohol acetone
Transport information <u>UN-Number</u> DOT ADR, IMDG, IATA <u>UN proper shipping name</u>	Alcohol acetone Void UN3082
Transport information <u>UN-Number</u> DOT ADR, IMDG, IATA <u>UN proper shipping name</u> DOT	Alcohol acetone Void UN3082 Void
Transport information <u>UN-Number</u> DOT ADR, IMDG, IATA <u>UN proper shipping name</u>	Alcohol acetone Void UN3082
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture
Transport information <u>UN-Number</u> DOT ADR, IMDG, IATA <u>UN proper shipping name</u> DOT	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es)	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es) DOT	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es)	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es) DOT	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es) DOT Class	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es) DOT Class ADR W W Class	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture Void
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es) DOT Class ADR Class Class	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture Void 9 (M6) Miscellaneous dangerous substances and articles
Transport information UN-Number DOT ADR, IMDG, IATA UN proper shipping name DOT ADR IMDG IATA Transport hazard class(es) DOT Class ADR W W Class	Alcohol acetone Void UN3082 Void 3082 Environmentally hazardous substances, liquid, n.o.s., mixture ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture, MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S mixture Void

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Trade name: Akepox 5000 Component A			
	(Contd. of page		
· IMDG, IATA			
· <u>Class</u> · <u>Label</u>	9 Miscellaneous dangerous substances and articles. 9		
· <u>Packing group</u> · <u>DOT</u> · <u>ADR, IMDG, IATA</u>	Void III		
 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 	Product contains environmentally hazardous substances: Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)		
Special precautions for user Danger code (Kemler):	Warning: Miscellaneous dangerous substances and articles 90		
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.		
· UN "Model Regulation":	UN3082, Environmentally hazardous substances, liquid, n.o.s mixture, 9, III		

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· <u>Sara</u>
Section 355 (extremely hazardous substances):
None of the ingredient is listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients is listed.
<u>TSCA (Toxic Substances Control Act):</u>
All ingredients are listed.
Proposition 65
Chemicals known to cause cancer:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
<u>Cancerogenity categories</u>
EPA (Environmental Protection Agency)
None of the ingredients is listed.
<u>TLV (Threshold Limit Value established by ACGIH)</u>
None of the ingredients is listed.
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Trade name: Akepox 5000 Component A				
(Contd. of page 9)				
MAK (German Maximum Workplace Concentration)				
None of the ingredients is listed.				
NIOSH-Ca (National Institute for Occupational Safety and Health)				
None of the ingredients is listed.				
OSHA-Ca (Occupational Safety & Health Administration)				
None of the ingredients is listed.				
· GHS label elements	The product is cl System (GHS).	assified and labeled according to the Globally Harmonized		
- <u>Hazard pictograms</u> GHS07				
 Signal word 	Warning			
Hazard-determining components	-			
• Hazard statements	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Cyclohexandimethanol-diglycidylether H315 Causes skin irritation.			
	H319 Causes seri H317 May cause	ous eye irritation. an allergic skin reaction.		
<u>Precautionary statements</u>	P101 P102 P103 P280	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.		
	P280 Wear protective gloves/protective clothing/eye protection, protection. P261 Avoid breathing vapours. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several mining. Remove contact lenses, if present and easy to do. Contrinsing.			
	P333+P313 P337+P313 P302+P352 P501	If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. Dispose of contents/container in accordance with local/ regional/national/international regulations.		
 National regulations: 				
 Information about limitation of use: 	Employment restrictions concerning young persons must be observed. Employment restrictions concerning pregnant and lactating women must be observed.			
 Water hazard class: 	Water hazard clas	ss 2 (Self-assessment): hazardous for water.		
· <u>VOC USA</u>	The VOC of the materials was determined in accordance with procedures outlined in EPA Method 24, "Determination of Volatile Matter, Water Content, Volume Solid of Surface Coatings". The VOC was calculated using the equations referenced in ASTM D 3960, "Determination of Volatile Organic Compound (VOC) Content of Paints and Related Coatings". 0.0 g/l			
• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.				
16 Other information				

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.

Department issuing MSDS: Laboratory

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Trade name: Akepox 5000 Component A

	(Contd. of page 10)
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 Date of preparation / last revision 	01/22/2014 / -
<u>Abbreviations and acronyms:</u>	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

