AKEMI®

according to 1907/2006/EC, Article 31

Printing date 28.02.2022 Version number 2 (replaces version 1) Revision: 28.02.2022

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

· 1.1 Product identifier

· Trade name: Akepox 2040 Component A

11651 (10611), 11652 (10606), 11627 (11626), 11629 (11628) · Article number:

· UFI: G9H3-G0EE-700A-W798

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

No further relevant information available.

· Application of the substance / the

mixture Epoxy resin adhesive

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

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

· Further information obtainable

from: · 1.4 Emergency telephone Laboratory

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH number:

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.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation. Skin Sens. 1 H317 May cause an allergic skin reaction.

Aguatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 · Hazard pictograms

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





GHS07 GHS09

· Signal word Warning

Hazard-determining components of

bis[4-(2,3-epoxypropoxy)phenyl]propane labelling:

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

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

 Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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

hand.

P102 Keep out of reach of children.

Read carefully and follow all instructions. P103

Avoid breathing vapours. P261

Avoid release to the environment. P273

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List II

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

protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

Dispose of contents/container in accordance with local/

regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

P501

· Determination of endocrine-disrupting properties

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-List II

2-ylmethoxy)benzyl]phenoxy}methyl)oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]

dioxirane

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

· Dangerous components:		
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	12.5-25%
	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	
933999-84-9	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%
13463-67-7	titanium dioxide Carc. 2, H351	1-5%

For the wording of the listed hazard phrases refer to section 16. · Additional information:

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.

Supply fresh air and to be sure call for a doctor. · After inhalation:

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.

Rinse opened eye for several minutes under running water. If symptoms persist, · After eye contact:

consult a doctor.

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· After swallowing: Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and

delayed

Breathing difficulty Headache Dizziness Nausea

Allergic reactions

· Hazards

Danger of impaired breathing.

 4.3 Indication of any immediate medical attention and special

treatment needed

If swallowed, gastric irrigation with added, activated carbon.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents: 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.

5.3 Advice for firefighters

· Protective equipment:

Wear fully protective suit.

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

· Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

· 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.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

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Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and

<u>explosion protection:</u> No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· DNELs

· Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

Prevent any seepage into the ground.

· Information about storage in one

common storage facility: Store away from reducing agents.

Store away from foodstuffs.

· Further information about storage

conditions: Store receptacle in a well ventilated area.

Keep container tightly sealed.

· Storage class: 12

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that

require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical

values that have to be monitored at the workplace.

167	5-54-3	bis[4-(2,3-epoxypropoxy)pl	nenyl]propane
Ora	I	DNEL (Kurzzeit-akut)	0.5 ma/ka bw/d

Oral DNEL (Kurzzeit-akut) 0.5 mg/kg bw/day (BEV)
DNEL (Langzeit-wiederholt) 0.5 mg/kg bw/day (BEV)
Dermal DNEL (Kurzzeit-akut) 8.33 mg/kg bw/day (ARB)
3.571 mg/kg bw/day (BEV)
DNEL (Langzeit-wiederholt) 0.75 mg/kg bw/day (ARB)
0.0893 mg/kg bw/day (BEV)
Inhalative DNEL (Kurzzeit-akut) 12.25 mg/m³ Air (ARB)
DNEL (Langzeit-wiederholt) 4.93 mg/m³ Air (ARB)

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

0.87 mg/m³ Air (BEV)

Oral	DNEL (Langzeit-wiederholt)	6.25 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	104.15 mg/kg bw/day (ARB)
		62.5 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	29.39 mg/m³ Air (ARB)
		8.7 mg/m³ Air (BEV)

933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

2.9 mg/m³ Air (BEV)

		0.83 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	0.83 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	1.7 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	2.8 mg/kg bw/day (ARB)
		1.7 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	4.9 mg/m³ Air (ARB)

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Trade name:	Akepox 2040 Component A		
	(Contd. of page 4)		
	DNEL (Langzeit-wiederholt) 4.9 mg/m³ Air (ARB)		
	2.9 mg/m³ Air (BEV)		
13463-67-	7 titanium dioxide		
Oral	DNEL (Langzeit-wiederholt) 700 mg/kg bw/day (BEV)		
Inhalative	DNEL (Langzeit-wiederholt) 10 mg/m³ Air (ARB)		
·PNECs			
1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane		
	issrig) 10 mg/l (KA)		
	0.0006 mg/l (MW)		
	0.006 mg/l (SW)		
	0.018 mg/l (WAS)		
PNEC (fee			
	0.034 mg/kg Trockengew (MWS)		
	0.341 mg/kg Trockengew (SWS)		
Reaction	mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-		
	y)benzyl]phenoxy}methyl)oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane		
PNEC (wä	issrig) 10 mg/l (KA)		
	0.0003 mg/l (MW)		
	0.003 mg/l (SW)		
	0.025 mg/l (WAS)		
PNEC (fee			
`	0.029 mg/kg Trockengew (MWS)		
	0.294 mg/kg Trockengew (SWS)		
933999-84	933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)		
	issrig) 1 mg/l (KA)		
	0.00115 mg/l (MW)		
	0.0115 mg/l (SW)		
	0.115 mg/l (WAS)		
PNEC (fes	· ,		
11120 (100	0.0283 mg/kg Trockengew (MWS)		
	0.283 mg/kg Trockengew (SWS)		
13/63 67	7 titanium dioxide		
	assrig) 100 mg/l (KA)		
TIVEC (Wa	1 mg/l (MW)		
	0.127 mg/l (SW)		
PNEC (fes			
FINEC (IES	100 mg/kg Trockengew (BO) 100 mg/kg Trockengew (MWS)		
	1,000 mg/kg Trockengew (MWS)		
. Additional	information: The lists valid during the making were used as basis.		
	· <u>8.2 Exposure controls</u> · Appropriate engineering controls No further data; see item 7.		
	te engineering controls No further data; see item 7. protection measures, such as personal protective equipment		
	rotection measures, such as personal protective equipment		
measures	Do not eat, drink, smoke or sniff while working.		
	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		

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

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· Respiratory protection:

· Hand protection

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Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Not necessary if room is well-ventilated.

Short term filter device:

Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter 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

· <u>Material of gloves</u> 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 p

Value for the permeation: Level \leq 6, 480 min

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Butoject (KCL, Art No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art No. 730, 731, 732, 733)

Dermatril (Art No. 740, 741, 742)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

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· 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)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

· Not suitable are gloves made of

the following materials:

Leather gloves

Strong material gloves

· Eye/face protection

Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Colour: Light grey · Odour: Characteristic Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling range >200 °C

· Flash point: Not applicable. >300 °C · Ignition temperature: > 200 °C °C · Decomposition temperature: Not determined. · pH

Not applicable

· Viscosity:

· Kinematic viscosity Not determined. Not applicable · Dynamic: Not determined.

Not applicable

· Solubility

· water: Not miscible or difficult to mix.

 Vapour pressure at 20 °C: 2 hPa

Density and/or relative density

 Density at 20 °C: 1.71 g/cm³

· 9.2 Other information

· Appearance:

· Form: Pasty

· Important information on protection of health and

environment, and on safety.

· Auto-ignition temperature: Product is not selfigniting.

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

· Solvent content:

· Solids content: 56.6 %

· Information with regard to physical hazard classes

· Explosives

Void

· Flammable gases

Void

· Aerosols

Void

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· Oxidising gases

Void

· Gases under pressure

Void

· Flammable liquids

Void

· Flammable solids

Void

· Self-reactive substances and mixtures

Void

· Pyrophoric liquids

Void

· Pyrophoric solids

Void

· Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable gases in contact with water

Void

· Oxidising liquids

Void

Oxidising solids

Void

· Organic peroxides

Void

· Corrosive to metals

Void

· Desensitised explosives

Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous

reactions

May produce violent reactions with bases and numerous organic substances

including alcohols and amines. Reacts with reducing agents. Reacts with strong acids.

· 10.4 Conditions to avoid

No further relevant information available.

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No further relevant information available.

10.6 Hazardous decomposition

· 10.5 Incompatible materials:

products: Irritant gases/vapours

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

 LD/LC50 values relevant for classificat 	ion:
---	------

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

Oral	LD50	15,000 mg/kg (rat)
Dermal	LD50	23,000 mg/kg (rabbit)

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

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
	LD50	>2,000 mg/kg (rat)

933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

Oral	LD50	8,500 mg/kg (rat)
Dermal	LD50	>4,900 mg/kg (rabbit)

13463-67-7 titanium dioxide

Oral	LD50	>5,010 mg/kg (rat)
	NOAEL	24,000 mg/kg (rat)
Dermal	LD50	>10,010 mg/kg (rbt)
Inhalative		10 mg/m³ (rat)
	LC50/48h	>100 mg/l (daphnia magna)

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation
 Respiratory or skin sensitisation
 May cause an allergic skin reaction.

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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 Based on available data, the classification criteria are not met.

· 11.2 Information on other hazards

Endocrine disrupting properties

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane

List II

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

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane

	>100 mg/l (BES)
EC10/16h	100 mg/l (pseudor

EC10/16h 100 mg/l (pseudomonas putida) EC50/48h 1.8 mg/l (daphnia magna)

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

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·		
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11 mg/l (selenastrum capricornutum)		
2 mg/l (Oncorhynchus mykiss)		
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		
2.55 mg/l (daphnia magna)		
1.8 mg/l (Selenastrum capricornutum)		
2.54 mg/l (Leuciscus idus)		
933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)		
23.1 mg/l (green alge)		
67 mg/l (daphnia magna)		
30 mg/l (Leuciscus idus)		
13463-67-7 titanium dioxide		
>1,000 mg/l (bacteria)		
>100 mg/l (daphnia magna)		
16 mg/l (Pseudokirchneriella subcapitata)		

· 12.2 Persistence and

LC50/96h

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

12.5 Results of PBT and vPvB assessment

 $\begin{array}{ccc} \cdot & \underline{\mathsf{PBT:}} & & \mathsf{Not applicable.} \\ \cdot & \underline{\mathsf{vPvB:}} & & \mathsf{Not applicable.} \end{array}$

>100 mg/l (Oncorhynchus mykiss) >1,000 mg/l (pimephales promelas)

12.6 Endocrine disrupting

properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Remark: Toxic for fish

· Additional ecological information:

· 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 (German Regulation) (Self-assessment): hazardous for

water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

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

reach sewage system.

· European waste catalogue		
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND	
	INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 01 00	separately collected fractions (except 15 01)	
20 01 27	paint, inks, adhesives and resins containing hazardous substances	

· Uncleaned packaging:

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

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

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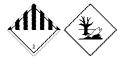
SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name	
· ADR	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'-
· IMDG	[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 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy} methyl)oxirane and 2,2'-[methylenebis(2,1-
· IATA	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 2,2'-[methylenebis(2,1-

phenyleneoxymethylene)]dioxirane)

· 14.3 Transport hazard class(es)

· ADR



· Class 9 (M6) Miscellaneous dangerous substances and articles. · Label

· IMDG, IATA



· Class 9 Miscellaneous dangerous substances and articles. · Label

· 14.4 Packing group

Ш · ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant: Yes Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATA): Symbol (fish and tree)

· 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles. · Hazard identification number (Kemler code):

· EMS Number: F-A,S-F Stowage Category

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

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according to 1907/2006/EC, Article 31

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Trade name: Akepox 2040 Component A

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· Transport/Additional information:

· ADR

· Limited quantities (LQ) 5L

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· Transport category 3 · Tunnel restriction code (-)

·IMDG

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· <u>UN "Model Regulation":</u> 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

· REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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AKEMI®

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.02.2022 Version number 2 (replaces version 1) Revision: 28.02.2022

Trade name: Akepox 2040 Component A

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· National regulations:

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

Employment restrictions concerning pregnant and lactating women must be

observed.

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

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· <u>VOC EU</u> 0.0 g/l

15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Laboratory

· <u>Contact:</u> Elke Hake

Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de

· Version number of previous

version:

· 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)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European

Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative 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 Carc. 2: Carcinogenicity – Category 2

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

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