according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

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

1.1 Product identifier

Trade name: COLOURING TINT LIQUID FOR AKEPOX

<u>Article number:</u> 11270, 11271, 11272, 11273, 11274, 11275, 11276, 11277, 11278, 11279,

No further relevant information available.

11280, 11281, 11282, 11283, 11284, 11285, 11286, 11287, 11288, 11289, 11290, 11291, 11235, 11236, 11237, 11238, 11239, 11240, 11241, 11242,

11251, 11252, 11253, 11254, 11255, 11256, 11257

· UFI: MMG4-502J-C000-ER01

1.2 Relevant identified uses of the substance or mixture and

uses advised against

Application of the substance / the mixture Stainer

1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Laboratory

Lechstrasse 28 D 90451 Nürnberg

· <u>Further information obtainable</u> from:

1.4 Emergency telephone

number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

+44 (171) 635 91 91

National Poison Inform. Centre Medical Toxicology Unit

Avalonley Road London SE14 5ER

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

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

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.

Aquatic 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

· <u>Signal word</u> Warning

· Hazard-determining components of

labelling: 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

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.

(Contd. on page 2)

AKEMI®

Tel. +49(0)911-642960 Fax. +49(0)911-644456

e-mail info@akemi.de



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING	TINT LIQUID	FOR AKEPOX

(Contd. of page 1)
P101 If medical advice is needed, have product container or label at

hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.
P280 Wear protective gloves / eye 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.

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· <u>Additional information:</u> Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

· 2.3 Other hazards

· Precautionary statements

· Results of PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· <u>Description:</u> Mixture: consisting of the following components.

· Dangerous components:			
	CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119489379-17-xxxx	titanium dioxide Carc. 2, H351	25-50%
	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	12.5-25%
		Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317	
	CAS: 933999-84-9 EC number: 618-939-5	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1: 2)	<12.5%
	Reg.nr.: 01-2119463471-41-0005	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412	
	· Additional information:	For the wording of the listed hazard phrases refer to section 16	

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.

Position and transport stably in side position.

· 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.

(Contd. on page 3)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

(Contd. of page 2)

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

consult a doctor.

· After swallowing: If symptoms persist consult doctor.

· Information for doctor: 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.

· 4.2 Most important symptoms and effects, both acute and

delayed

Allergic reactions Hazards

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 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

Wear self-contained respiratory protective device. Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

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

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 product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

containment and cleaning up: 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.

(Contd. on page 4)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

(Contd. of page 3)

SECTION 7: Handling and storage

· 7.1 Precautions 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

explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

storerooms and receptacles: Store only in the original receptacle.

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.

Protect from frost.

Keep container tightly sealed.

Storage class:

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Additional information about design

of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the

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

values that have to be monitored at the workplace.

values that have to be monitored at the workplace.			
· <u>DNELs</u>			
13463-67-	13463-67-7 titanium dioxide		
Oral	DNEL (Langzeit-wiederholt)	700 mg/kg bw/day (BEV)	
Inhalative	DNEL (Langzeit-wiederholt)	10 mg/m³ Air (ARB)	
1675-54-3	bis[4-(2,3-epoxypropoxy)pl	henyl]propane	
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)	
		0.87 mg/m³ Air (BEV)	
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	DNEL (Langzeit-wiederholt)		
Dermal	DNEL (Langzeit-wiederholt)	104.15 mg/kg bw/day (ARB)	
		62.5 mg/kg bw/day (BEV)	

(Contd. on page 5)



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

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

	COLOURING TINT LIQUID I	FOR AKEPOX
		(Contd. of pag
Inhalative	DNEL (Langzeit-wiederholt)	_ ` '
		8.7 mg/m³ Air (BEV)
933999-84	-9 Reaction products of he	xane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
Oral	DNEL (Kurzzeit-akut)	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)
		2.9 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	4.9 mg/m³ Air (ARB)
	,	2.9 mg/m³ Air (BEV)
PNECs		
	titanium dioxide	
PNEC (wä	ssrig) 100 mg/l (KA)	
	1 mg/l (MW)	
	0.127 mg/l (SW)	
PNEC (fes	t) 100 mg/kg Trockenge	w (BO)
	100 mg/kg Trockenge	w (MWS)
	1,000 mg/kg Trockeng	gew (SWS)
1675-54-3	bis[4-(2,3-epoxypropoxy)p	henyl]propane
PNEC (wä	ssrig) 10 mg/l (KA)	
	0.0006 mg/l (MW)	
	0.006 mg/l (SW)	
	0.018 mg/l (WAS)	
PNEC (fes	t) 0.065 mg/kg Trockeng	gew (BO)
	0.034 mg/kg Trockeng	gew (MWS)
	0.341 mg/kg Trockeng	gew (SWS)
	·	(4,1-phenyleneoxymethylene)]dioxirane and [2-({2-[4-(oxiran-2-
-		xirane and [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane
PNEC (wä	ssrig) 10 mg/l (KA)	
	0.0003 mg/l (MW)	
	0.003 mg/l (SW)	
	0.025 mg/l (WAS)	
PNEC (fes	t) 0.237 mg/kg Trockeng	gew (BO)
	0.029 mg/kg Trockeng	gew (MWS)
0.294 mg/kg Trockenge		• • •
933999-84-9 Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)		
PNEC (wä	ssrig) 1 mg/l (KA)	
	0.00115 mg/l (MW)	
	0.0115 mg/l (SW)	
	0.445 // //// 0\	
	0.115 mg/l (WAS)	
PNEC (fes	t) 0.223 mg/kg Trockeng	• • •
PNEC (fes	t) 0.223 mg/kg Trockeng 0.0283 mg/kg Trocker	ngew (MWS)
PNEC (fes	t) 0.223 mg/kg Trockeng 0.0283 mg/kg Trocken 0.283 mg/kg Trockeng	ngew (MWS)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

(Contd. of page 5)

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic

measures:

Do not eat, drink, smoke or sniff while working. Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

· Respiratory protection:

· Protection of hands:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Preventive skin protection by use of skin-protecting agents is recommended.

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

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

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

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

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 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 ≤ 2 , 30 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:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art No. 890)

(Contd. on page 7)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

(Contd. of page 6)

Butoject (KCL, Art_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art_No. 730, 731, 732, 733)

Butyl rubber, BR

· As protection from splashes gloves

made of the following materials are suitable:

Butoject (KCL, Art_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733) Butoject (KCL, Art_No. 897, 898)

Butyl rubber, BR

Not suitable are gloves made of

the following materials:

Leather gloves

Strong material gloves Nitrile rubber, NBR

· Eye protection:



Tightly sealed goggles

· <u>Body protection:</u> Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid

<u>Colour:</u> According to product specification

Odour: Specific type
 Odour threshold: Not determined.
 pH-value: Not applicable

· Change in condition

Melting point/freezing point: Undetermined. Initial boiling point and boiling range: >200 °C

· Flash point: Not applicable.

· Flammability (solid, gas): Not applicable.

 $\cdot \, \underline{\text{Decomposition temperature:}} \qquad \quad \text{Not determined.}$

Auto-ignition temperature: Product is not selfigniting.
 Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

<u>Lower:</u> Not determined. Upper: Not determined.

· Vapour pressure at 20 °C: 2 hPa

Density at 20 °C: 1.55 g/cm³ ([1.30 - 1.73 g/cm³])

Relative density
Vapour density
Evaporation rate
Not determined.
Not determined.
Not determined.

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

(Contd. on page 8)



(Contd. of page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

10,000 mPas

Kinematic:

Solvent content:

Dynamic at 20 °C:

· Viscosity:

Solids content: 46.0 %

• 9.2 Other information No further relevant information available.

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.

Not determined.

· 10.3 Possibility of hazardous

<u>reactions</u> Reacts with reducing agents.

Reacts with strong acids. Reacts with strong alkali.

Violent reactions with -NHx, -OH and -SH- groups.

• 10.4 Conditions to avoid No further relevant information available. No further relevant information available.

· 10.6 Hazardous decomposition

products: Carbon monoxide and carbon dioxide

Possible in traces.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

· LD/LC50 values relevant for classification:
13463-67-7 titanium dioxide

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

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)

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

Oral	LD50	2,190 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit

· Primary irritant effect:

Skin corrosion/irritation
 Serious eye damage/irritation
 Causes skin irritation.
 Causes serious eye irritation.

· Respiratory or skin sensitisation May cause an allergic skin reaction.

· Additional toxicological information:

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Based on available data, the classification criteria are not met.

(Contd. on page 9)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

(Contd. of page 8)

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

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

SECTION 12: Ecological information

· 12.1 Toxicity

· <u>Aquatic toxicity:</u>		
13463-67-7 titanium dioxide		
EC50	>1,000 mg/l (bacteria)	
EC50/48h	>100 mg/l (daphnia magna)	
EC50/72h	16 mg/l (Pseudokirchneriella subcapitata)	
LC50/96h	>100 mg/l (Oncorhynchus mykiss)	

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

>1,000 mg/l (pimephales promelas)

IC50	>100 mg/l (BES)
EC10/16h	100 mg/l (pseudomonas putida)
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)

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)
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)	
	23.1 mg/l (green alge) 47 mg/l (daphnia magna)	
LC50/96h	30 mg/l (Leuciscus idus)	

· 12.2 Persistence and

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

· Ecotoxical effects:

· Remark: Toxic for fish

Additional ecological information:

· General notes: 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 Results of PBT and vPvB assessment

· <u>PBT:</u> Not applicable. · vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

(Contd. on page 10)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

(Contd. of page 9)

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

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

reach sewage system.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Alcohol

SECTION 14: Transport information

· <u>14.1 UN-Number</u> · 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'-[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(2,2,1-phenyleneoxymethylene)]dioxirane and [2,2'-[methylenebis(2,2,1-phenyleneoxymethylene)]dioxirane and [2,2'-[methylenebis(2,2,1-phenyleneoxymethylene)]dioxirane and [2,2'-[methylenebis(2,2,1-phenyleneoxymethylene)]dioxirane			
· <u>IATA</u>	[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 [2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane)			
· 14.3 Transport hazard class(es)				
· <u>ADR</u>				
· <u>Class</u> · <u>Label</u>	9 (M6) Miscellaneous dangerous substances and articles.			
· IMDG, IATA				
· <u>Class</u> · <u>Label</u>	9 Miscellaneous dangerous substances and articles.			
14.4 Packing group				
· <u>ADR, IMDG, IATA</u>	III			

(Contd. on page 11)



according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Filliling date 24.05.2021	Version number 11	Nevision. 24.03.2021		
Trade name: COLOURING TINT LIQUID FOR AKEPOX				
		(Contd. of page 10)		
14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA):	Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)			
• 14.6 Special precautions for user • Hazard identification number (Kemler co • EMS Number: • Stowage Category	Warning: Miscellaneo	ous dangerous substances and		
· 14.7 Transport in bulk according to Aland the IBC Code	nnex II of Marpol Not applicable.			
· Transport/Additional information:				
· ADR · Excepted quantities (EQ)		per inner packaging: 30 ml per outer packaging: 1000 ml		
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)		per inner packaging: 30 ml per outer packaging: 1000 ml		
· <u>UN "Model Regulation":</u>	SUBSTANCE, LIC EPOXYPROPOXY)PI MASS OF 2,2' PHENYLENEOXYME ⁻ ({2-[4-(OXIRAN-2-YLI METHYL)OXIRANE A	NMENTALLY HAZARDOUS QUID, N.O.S. (BIS[4-(2,3- HENYL]PROPANE, REACTION -[METHYLENEBIS(4,1- THYLENE)]DIOXIRANE AND [2- METHOXY)BENZYL]PHENOXY} AND [2,2'-[METHYLENEBIS(2,1- HYLENE)]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

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

· VOC EU 0.0 g/l

(Contd. on page 12)

AKEMI®

(Contd. of page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.03.2021 Version number 11 Revision: 24.03.2021

Trade name: COLOURING TINT LIQUID FOR AKEPOX

• 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.

· Relevant phrases H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H351 Suspected of causing cancer.

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: LaboratoryContact: 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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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 (RÈACH)

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 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

Sources REACH directive 1907/2006/EC

* Data compared to the previous

version altered. Adaptation in accordance with REACH directive 1907/2006/EC

GE