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

AKEMI®

Printing date 21.05.2019 Version number 8 Revision: 21.05.2019

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

· 1.1 Product identifier

· Trade name: Akepox 1004 Component B

- <u>Article number:</u> 11667, 11669, 11670,11671, 11672,11673, 11687,11688, 13670, 13671, 13673,

13687, 11400

• 1.2 Relevant identified uses of the substance or mixture and

uses advised against No further relevant information available.

Application of the substance / the

<u>mixture</u> Reaction resin

· 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

Lechstrasse 28 D 90451 Nürnberg

Laboratory

Tel. +49(0)911-642960 Fax. +49(0)911-644456 e-mail info@akemi.de

• Further information obtainable 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



GHS08 health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aguatic Chronic 1 H410 Very toxic to aguatic life with long lasting effects.



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

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Skin Sens. 1 H317 May cause an allergic skin reaction.

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· 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.





HS05 GHS07 GHS08 GHS09

· <u>Signal word</u> Danger

Hazard-determining components

of labelling:

2-piperazin-1-ylethylamine

Amines, polyethylenepoly-, triethylenetetraamine fraction

Benzyl alcohol

4-nonylphenol, branched

Hazard statements
 H302+H312 Harmful if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated

exposure.

H410 Very toxic to aquatic life with long lasting effects.

• <u>Precautionary statements</u> P101 If medical advice is needed, have product container or label

at hand.

P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe vapours.

P273 Avoid release to the environment.

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

protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel

unwell.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

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 Dangerous components: 		
CAS: 140-31-8 EINECS: 205-411-0 Index number: 612-105-00-4 Reg.nr.: 01-2119471486-30-0000	2-piperazin-1-ylethylamine Acute Tox. 3, H311 Repr. 2, H361; STOT RE 1, H372 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	25-50%
CAS: 90640-67-8 EINECS: 292-588-2 Index number: 612-065-00-8 Reg.nr.: 01-2119487919-13	Amines, polyethylenepoly-, triethylenetetraamine fraction Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	25-50%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 Reg.nr.: 01-2119492630-38-0000	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Irrit. 2, H319	25-50%
CAS: 84852-15-3 EINECS: 284-325-5 Index number: 601-053-00-8 Reg.nr.: 01-2119510715-45-xxxx	4-nonylphenol, branched Acute Tox. 3, H331 Repr. 2, H361fd Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	1-5%

· SVHC

84852-15-3 4-nonylphenol, branched

· 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.

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

 \cdot 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.

Immediately rinse with water.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

 4.2 Most important symptoms and effects, both acute and

delayed Headache

Dizziness Nausea

Allergic reactions

· Information for doctor: Amines: Inhalation, swallowing or dermal contact may cause health damages.

Cause burns, harm respiratory tract, eyes, skin, and digestion system in worst case up to complete destruction. Intermediate interferences such as headache, nausea, cough, dyspnea may occur. May cause allergies. Sensitized users may react towards very low amine concentrations and should avoid any further

contact with this group of chemicals.

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Nonylphenol based exposition: causes corrosive burns, damages respiratory tract, eyes, skin and digestive system up to complete tissue destruction. Temporary dysfunctions such as dizziness, headache, nausea and diarrhea may occur. Can cause health disturbances like dermal bleaching, renal and hepatic

damage.

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) Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

· 5.3 Advice for firefighters

· Protective equipment:

Wear fully protective suit.

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

Mount respiratory protective device.

· Additional information

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

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.

Wear protective equipment. Keep unprotected persons away.

· 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

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). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

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.

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Store in cool, dry place in tightly closed receptacles.

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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 oxidising agents.

Store away from foodstuffs.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Protect from humidity and water. Keep container tightly sealed.

- Storage class:

 \cdot **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about

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

· 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.

		values that he	ive to be memored at the wemplace.	
· DNEL	<u>s</u>			
140-3	140-31-8 2-piperazin-1-ylethylamine			
Derma	al DNEL (Kurzzeit-ak	DNEL (Kurzzeit-akut) 20 mg/kg bw/day (ARB)		
Inhala	itive DNEL (Kurzzeit-ak	ut) 21.4 mg/	m³ Air (ARB)	
	DNEL (Langzeit-w	ederholt) 10.6 mg/	m³ Air (ARB)	
90640	-67-8 Amines, polyeth	ylenepoly-, triethyl	enetetraamine fraction	
Derma	al DNEL (Langzeit-w	riederholt) 0.57 mg/	kg bw/day (ARB)	
Inhala	itive DNEL (Kurzzeit-ak	ut) 5,380 mg	g/m³ Air (ARB)	
	DNEL (Langzeit-w	ederholt) 1 mg/m³	Air (ARB)	
100-5	1-6 Benzyl alcohol			
Oral	DNEL (Kurzzeit-ak	ut) 20 mg/kg	bw/day (BEV)	
	DNEL (Langzeit-w	ederholt) 4 mg/kg	bw/day (BEV)	
Derma	al DNEL (Kurzzeit-ak	ut) 40 mg/kg	bw/day (ARB)	
		20 mg/kg	bw/day (BEV)	
	DNEL (Langzeit-w	riederholt) 8 mg/kg	ow/day (ARB)	
		4 mg/kg	bw/day (BEV)	
Inhala	itive DNEL (Kurzzeit-ak	ut) 110 mg/r	n³ Air (ARB)	
		27 mg/m	³ Air (BEV)	
	DNEL (Langzeit-w	ederholt) 22 mg/m	³ Air (ARB)	
		5.4 mg/n	n³ Air (BEV)	
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84852-15-3 4-nonylphenol, branched

Dermal DNEL (Langzeit-wiederholt) 7.5 mg/kg bw/day (ARB)

Inhalative DNEL (Langzeit-wiederholt) 0.5 mg/m³ Air (ARB)

· PNECs

140-31-8 2-piperazin-1-ylethylamine

PNEC (wässrig) 0.0058 mg/l (MW)

0.058 mg/I (SW)

90640-67-8 Amines, polyethylenepoly-, triethylenetetraamine fraction

PNEC (wässrig) 4.25 mg/l (KA)

0.038 mg/l (MW) 0.19 mg/l (SW) 0.2 mg/I (WAS)

19.1 mg/kg Trockengew (BO) PNEC (fest)

19.2 mg/kg Trockengew (MWS) 95.9 mg/kg Trockengew (SWS)

100-51-6 Benzyl alcohol

PNEC (wässrig) 39 mg/l (KA)

0.1 mg/I (MW) 1 mg/l (SW) 2.3 mg/I (WAS)

PNEC (fest) 0.456 mg/kg Trockengew (BO)

> 0.527 mg/kg Trockengew (MWS) 5.27 mg/kg Trockengew (SWS)

Additional information:

The lists valid during the making were used as basis.

· 8.2 Exposure controls

Respiratory protection:

· Personal protective equipment:

General protective and hygienic

measures:

Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Keep away from foodstuffs, beverages and feed.

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

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.

· Protection of hands: 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

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GmbH in compliance with EN374.

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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 Chloroprene rubber, CR

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 ≤ 6 , ≥ 480

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)

 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)

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

Chloroprene rubber, CR

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

 Not suitable are gloves made of the following materials:

Strong material gloves

Leather gloves

· Eye protection:



Tightly sealed goggles

- Body protection: Protective work clothing

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SECTION 9: Physical and chemical properties

· General Information

· Appearance:

Form:
Colour:
Codour:
Fluid
Light yellow
Amine-like

· Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 205 °C

· Flash point: 88 °C

· Ignition temperature: 315 °C

· Auto-ignition temperature: Product is not selfigniting.

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

· Explosion limits:

 Lower:
 1.3 Vol %

 Upper:
 13 Vol %

· <u>Vapour pressure at 20 °C:</u> 0.1 hPa

- Density at 20 °C: 1 g/cm³

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

· Viscosity:

Dynamic at 20 °C: 25 mPas

Kinematic: Not determined.

· Solvent content:

Organic solvents: 29.0 %

Solids content: 0.5 %

• <u>9.2 Other information</u> 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 according to specifications.

· 10.3 Possibility of hazardous

reactions

Strong exothermic reaction with acids.

• 10.4 Conditions to avoid
• 10.5 Incompatible materials:

No further relevant information available.

No further relevant information available.

10.6 Hazardous decomposition

products: Corrosive gases/vapours

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Harmful if swallowed or in contact with skin.

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		(Contd. of page		
LD/LC50 v	alues relev	vant for classification:		
		Estimates)		
Oral	LD50	1,358-1,526 mg/kg		
Dermal	LD50	1,268 mg/kg (rabbit)		
	LC50/4 h			
		· ·		
		n-1-ylethylamine		
Oral	LD50	2,097 mg/kg (rabbit)		
		1,470-2,140 mg/kg (rat)		
Dermal	LD50	866 mg/kg (rabbit)		
		866-1,260 mg/kg (rat)		
		polyethylenepoly-, triethylenetetraamine fraction		
Oral	LD50	1,716 mg/kg (rat)		
Dermal	LD50	1,465 mg/kg (rabbit)		
	Benzyl alco			
Oral	LD50	1,040 mg/kg (mouse)		
		1,040 mg/kg (rabbit)		
		1,230 mg/kg (rat)		
	NOEL	400 mg/kg (rat)		
	NOAEL	200 mg/kg (mouse)		
		400 mg/kg (rat)		
Dermal	LD50	2,000 mg/kg (rabbit)		
Inhalative	LC50/8h	1,000 ppm (rat)		
	LC50/4 h			
		360 mg/l (daphnia magna)		
		645 mg/l (goo)		
84852-15-	3 4-nonylp	phenol, branched		
	LD50	1,210 mg/kg (rat)		
Dermal	LD50	>2,000 mg/kg (rabbit)		
Inhalative	LC50/4 h	h h 3.636 mg/l (mouse)		
Primary irr	itant effect:			
Skin corro				
· Serious eye damage/irritation Causes serious eye damage.				
Respirator				
 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Germ cell mutagenicity Based on available data, the classification criteria are not met. 				
		Based on available data, the classification criteria are not met.		
Reproductive toxicity		Suspected of damaging fertility or the unborn child.		
· STOT-single exposure		Based on available data, the classification criteria are not met.		
· STOT-repeated exposure		sure Causes damage to organs through prolonged or repeated exposure.		
Aspiration	hazard	Based on available data, the classification criteria are not met.		

SECTION 12: Ecological information

· 12.1 Toxicity

1211 10/11011	L
 Aquatic toxic 	ity:
140-31-8 2-p	piperazin-1-ylethylamine
EC50	511 mg/l (bacteria)
EC50/48h	58 mg/l (daphnia magna)
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EC20/0.5h EC50/72h	494 mg/l (Selenastrum capricornutum)	(Contd. of pa
EC20/0.5h EC50/72h	• • • • • • • • • • • • • • • • • • • •	
EC50/72h		
	>1,000 mg/l (BES)	
	>1,000 mg/l (pseudomonas putida)	
	494 mg/l (Selenastrum capricornutum)	
	2,190 mg/l (piscis)	
	368 mg/l (Leuciscus idus)	
	>100 mg/l (Oncorhynchus mykiss)	
	>1,800 mg/l (poecilia reticulata)	
	mines, polyethylenepoly-, triethylenetetraamine fraction	
	31.1 mg/l (daphnia magna)	
	3.7 mg/l (Scenedesmus subspicatus)	
	20 mg/l (Pseudokirchneriella subcapitata)	
	330 mg/l (pimephales promelas)	
	2.2 mg/l (Pseudokirchneriella subcapitata)	
	10 mg/l (lepomis macrochirus)	
	330 mg/l (pimephales promelas)	
100-51-6 Ben	•	
	55-400 mg/l (daphnia magna)	
	640 mg/l (Scenedesmus pluvialis)	
	2,100 mg/l (BES) (OECD 209)	
	79 mg/l (Scenedesmus quadricauda)	
	658 mg/l (pseudomonas putida)	
	230 mg/l (daphnia magna) (OECD 202)	
	640 mg/l (Scenedesmus quadricauda)	
	658 mg/l (pseudomonas putida)	
EC50/30min	71.4 mg/l (Photobac. phosphoreum)	
	400 mg/l (pseudomonas putida)	
C5/96h	640 mg/l (Scenedesmus quadricauda)	
NOEC	310 mg/kg (Pseudokirchneriella subcapitata)	
NOEC/21d	51 mg/l (daphnia magna) (OECD211)	
EC50/72h	770 mg/l (green alge) (OECD 201)	
'	770 mg/l (Pseudokirchneriella subcapitata)	
LC50/96h	645 mg/l (goo)	
	10 mg/l (lepomis macrochirus)	
	460 mg/l (Pimephales promelas)	
84852-15-3 4 [.]	-nonylphenol, branched	
EC50/96h	0.41 mg/l (green alge)	
EC50/48h	0.14 mg/l (daphnia magna)	
	0.024 mg/l (daphnia magna)	
EC50/72h	1.3 mg/l (Scenedesmus subspicatus)	
LC50/96h	0.135 mg/l (Pimephales promelas)	

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

· Ecotoxical effects:

· Remark: Toxic for fish

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· 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

vater

· 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

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			
	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

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN2735
· 14.2 UN proper shipping name · ADR	2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.
<u> </u>	(TRIETHYLENETETRAMINE, N-AMINOETHYLPIPERAZINE), ENVIRONMENTALLY HAZARDOUS
· <u>IMDG</u>	POLYAMINES, LIQUID, CORROSIVE, N.O.S.
	(TRIETHYLENETETRAMINE, N-AMINOETHYLPIPERAZINE), MARINE POLLUTANT
· <u>IATA</u>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (TRIETHYLENETETRAMINE, N-AMINOETHYLPIPERAZINE)

· 14.3 Transport hazard class(es)

· ADR



Class
Label
8 (C7) Corrosive substances.
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· <u>Class</u> 8 Corrosive substances.

· <u>Label</u> 8

· IATA



· <u>Class</u> 8 Corrosive substances.

· <u>Label</u>

· **14.4 Packing group** · ADR, IMDG, IATA

• **14.5 Environmental hazards:** Product contains environmentally hazardous substances:

Ш

Marine pollutant: Yes

Symbol (fish and tree)
Special marking (ADR):
Symbol (fish and tree)

• 14.6 Special precautions for user Warning: Corrosive substances.

Danger code (Kemler):
EMS Number:
Segregation groups
Stowage Category

80
F-A,S-B
Alkalis
A

Segregation Code SG35 Stow "separated from" SGG1-acids

· 14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code Not applicable.

Transport/Additional information:

· ADR

Limited quantities (LQ)
Excepted quantities (EQ)
Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

Transport categoryTunnel restriction code

· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

• <u>UN "Model Regulation":</u>

UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S.

(TRIETHYLENETETRAMINE, N-AMINOETHYLPIPERAZINE), 8,

II, ENVIRONMENTALLY HAZARDOUS

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.

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· Seveso category E1 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 100 t

Qualifying quantity (tonnes) for the application of upper-tier

<u>requirements</u> 200

REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

- Regulation (EU) No 649/2012

84852-15-3 4-nonylphenol, branched

Annex I Part 1 Annex I Part 2

· 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

84852-15-3 4-nonylphenol, branched

- <u>VOC EU</u> 291.4 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.

Relevant phrases
 H302 Harmful if swallowed.

H311 Toxic in contact with skin. H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn

child.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very 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: Dieter Zimmermann

· 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 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

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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 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Repr. 2: Reproductive toxicity – Category 2 Repr. 2: Reproductive toxicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 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