**AKEMI®** 

Printing date 01/22/2014 Reviewed on 01/22/2014

#### 1 Identification

· Product identifier

· Trade name: Akepox 2010 Component B

• <u>Article number:</u> 10616, 10623, 10624, 10627, 10598, 10615

 Relevant identified uses of the substance or mixture and uses

advised against

- Application of the substance / the

mixture

No further relevant information available.

Epoxy resin adhesive

· Details of the supplier of the safety data sheet

• Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

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

Information department: Laboratory

· 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.

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

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



**GHS05 Corrosion** 

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



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

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

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Corrosive

Causes burns.



**X** Harmful

Harmful by inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects.



Irritant

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information concerning particular

hazards for human and

environment: Acid burns have to treated immediately, as it may otherwise cause badly curing

wounds.

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Contact with skin and inhalation of aerosols/ vapours of the preparation should

be avoided.

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

· Classification system:

The product is classified and labeled according to the Globally Harmonized · GHS label elements

System (GHS).

· Hazard pictograms



· Signal word Danger

· Hazard-determining components

of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

nonylphenol phenol Benzvl alcohol

· Hazard statements H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

· Precautionary statements

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.

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

protection.

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

contaminated clothing. Rinse skin with water/shower.

IF INHALED: Call a POISON CENTER or doctor/physician if P304+P312

you feel unwell.

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. IF SWALLOWED: Call a POISON CENTER or doctor/ P301+P312

physician if you feel unwell.

P405 Store locked up.

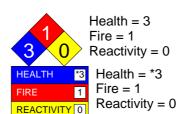
P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)

· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

Not applicable. · PBT:

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 $\cdot$  <u>vPvB:</u> Not applicable.

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### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9	3-aminomethyl-3,5,5-trimethylcyclohexylamine  C R34; Xn R21/22; Xi R43 R52/53  Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	12.5-25%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol Xn R20/22	12.5-25%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) ☐ C R35; Xn R20/22; Xi R43 R52/53      Xn R20/22; Xi R43 Acute Tox. 1A, H314; Eye Dam. 1, H318;	<12.5%
CAS: 25154-52-3 EINECS: 246-672-0 Index number: 601-053-00-8	nonylphenol C R34; Xn R22-62-63; N R50/53 Repr. Cat. 3  Repr. 2, H361; ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302	1-5%
CAS: 69-72-7 EINECS: 200-712-3	Salicylic acid  Xn R22; Xi R37/38-41  ♦ Eye Dam. 1, H318; ↑ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	1-5%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2	phenol  ☐ T R23/24/25; ☐ C R34; ☐ Xn R48/20/21/22-68  ☐ Muta. Cat. 3  ☐ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☐ Muta. 2, H341; STOT RE 2, H373; ☐ Skin Corr. 1B, H314	1-5%
	Aminosilane Xn R20; Xi R41-43; N R51/53 ⇒ Eye Dam. 1, H318; ♦ Acute Tox. 4, H332; Skin Sens. 1, H317	1-5%

## · SVHC

25154-52-3 nonylphenol

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

## 4 First-aid measures

## · 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.

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

observation for at least 48 hours after the accident.

· 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.

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

doctor.

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· After swallowing: Immediately call a doctor.

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· Information for doctor:

Drink copious amounts of water and provide fresh air. Immediately call a doctor. The symptoms of phenol based poisoning appearances are white coloured mouth scabs, shock condition, insensibility, bradycardia and renal dysfunction and damage of renal tissue. Appropriate therapy measures: Administration of an adequate volume of liquid, gastrolavage in application of carbo medicinalis, sodium sulphate with plenty of water, infusion of glucose solution (5%); maesures against state of shock, hemodialysis.

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.

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.

 Most important symptoms and effects, both acute and delayed

Headache Dizziness Dizziness Nausea

Breathing difficulty

Danger of impaired breathing.

Danger

Indication of any immediate medical attention and special

treatment needed

. 9. . | . . . . . . 9

If swallowed, gastric irrigation with added, activated carbon.

### 5 Fire-fighting measures

· Extinguishing media

Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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)

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

· Advice for firefighters

· Protective equipment:

Wear fully protective suit.

Wear self-contained respiatory 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

system.

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

official regulations.

#### 6 Accidental release measures

· 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.

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# Safety Data Sheet acc. to OSHA HCS

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**Trade name: Akepox 2010 Component B** 

• 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.

Methods and material for

**containment and cleaning up:** Dispose of the collected material according to regulations.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

• 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.

### 7 Handling and storage

· Handling:

· 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 protection

<u>against explosions and fires:</u> No special measures required.

### · 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 oxidizing agents.

Store away from foodstuffs.

Further information about storage

conditions:

Store receptacle in a well ventilated area.

Keep receptacle tightly sealed.

· Storage class:

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

## 8 Exposure controls/personal protection

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:

## 100-51-6 Benzyl alcohol

WEEL Long-term value: 10 ppm

## 1477-55-0 m-phenylenebis(methylamine)

REL Ceiling limit value: 0.1 mg/m<sup>3</sup>

Skin

TLV Ceiling limit value: 0.1 mg/m<sup>3</sup>

Skin

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# Safety Data Sheet

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Trade name: Akepox 2010 Component B

108-95-2 phenol

PEL Long-term value: 19 mg/m³, 5 ppm

Skin

REL Long-term value: 19 mg/m³, 5 ppm

Ceiling limit value: 60\* mg/m³, 15.6\* ppm

\*15-min; Skin

TLV Long-term value: 19 mg/m³, 5 ppm

Skin; BEI

· Ingredients with biological limit values:

108-95-2 phenol

BEI 250 mg/g creatinine

Medium: urine Time: end of shift

Parameter: Phenol with hydrolysis (background, nonspecific)

· Additional information: 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.

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.

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: 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 respiratory protective device that is

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 in

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 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).

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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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked

prior to the application.

 Penetration time of glove material Value for the permeation: Level  $\leq$  6, 480 min

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

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

suitable:

Butyl rubber, BR

Butoject (KCL, Art No. 897, 898)

Nitrile rubber, NBR

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

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:

Natural rubber, NR

Fluorocarbon rubber (Viton)

Leather gloves Strong gloves

· Eye protection:



Tightly sealed goggles

Protective work clothing Body protection:

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

Appearance:

Form: Pastv Color: Light yellow · Odor: Characteristic • pH-value: Not applicable

· Change in condition

Melting point/Melting range: Undetermined.

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Trade name: Akepox 2010 Component B		
		(Contd. of page 7)
Boiling point/Boiling range:	205 °C (401 °F)	
· Flash point:	101 °C (214 °F)	
· Ignition temperature:	380 °C (716 °F)	
· Decomposition temperature:	> 250 °C (> 482 °F)	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	1.2 Vol % 13.0 Vol %	
· Vapor pressure at 20 °C (68 °F):	0.1 hPa	
· Density at 20 °C (68 °F):	1.08 g/cm³ (9.013 lbs/gal)	
· Specific gravity at 20 °C (68 °F):	1.08 g/cm³ (9.013 lbs/gal)	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
· <u>Viscosity:</u>		

## 10 Stability and reactivity

Organic solvents: Other information

· Reactivity

Dynamic:

Kinematic:

· Solvent content:

· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous

reactions

Strong exothermic reaction with acids.

No further relevant information available.

Not determined.

Not determined.

15.3 %

Reacts with strong oxidizing agents. No further relevant information available.

· Conditions to avoid · Incompatible materials:

No further relevant information available.

Hazardous decomposition

products: Corrosive gases/vapors

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:			
2855-13-2	2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
Oral	LD50	1030 mg/kg (rat)	
Dermal	LD50	1840 mg/kg (rabbit)	
		>2000 mg/kg (rat)	
	NOAEL-Werte	>250 mg/kg (rat)	
100-51-6 Benzyl alcohol			
Oral	LD50	1040 mg/kg (mouse)	
			Contd. on page 9)



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		(Conta. or page 8)
		1040 mg/kg (rabbit)
		1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	> 1000 mg/l (rat)
	LC50/4h	>4.178 mg/m3 (rat)
	LC50/8h	1000 ppm (rat)
	LC50/48h	645 mg/l (goo)
1477-55-0	m-phenylenel	pis(methylamine)
Oral	LD50	930 mg/kg (rat)
	NOEL	150 mg/kg (rat)
Dermal	LD50	3100 mg/kg (rabbit)
25154-52-	3 nonylphenol	
Oral	LD50	200-2000 mg/kg (rat)
Dermal	LD50	2031 mg/kg (rabbit)
ا 108-95-2	phenol	
Oral	LD50	300 mg/kg (mouse)
		414 mg/kg (rat)
Dermal	LD50	670 mg/kg (rat)
Inhalative	LC50/4 h	316 mg/l (rat)
	•	

· Primary irritant effect:

on the skin: Caustic effect on skin and mucous membranes.

· on the eye: Strong caustic effect.

• Sensitization: Sensitization possible through skin contact.

· Additional toxicological

information: The product shows the following dangers according to internally approved

calculation methods for preparations:

Harmful Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the

danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-95-2 phenol

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

## 12 Ecological information

· Toxicity

· Aquatic toxicity:		
2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
EC10/18h	1120 mg/l (pseudomonas putida)	
EC50/24h	44 mg/l (daphnia magna)	
EC50/48h	23 mg/l (daphnia magna) (OECD TG 202)	
EC50/72h	37 mg/l (green alge) (EG 88/302)	
	50 mg/l (Scenedesmus subspicatus)	
LC 0/96h	70 mg/l (piscis)	
1	(Contd. on page 10)	

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LC50/96h	110 mg/l (Brachydanio rerio) (EG 84/449)
NOEC/21d	3 mg/l (daphnia magna)

## 100-51-6 Benzyl alcohol

EC50	21°0 mg/l (BES) (OECD 209)
	79 mg/l (Scenedesmus quadricauda)

EC50/16h 658 mg/l (pseudomonas putida) EC50/24h 55-400 mg/l (daphnia magna)

EC50/30min 71.4 mg/l (Photobac. phosphoreum)

400 mg/l (pseudomonas putida)

EC50/48h 230 mg/l (daphnia magna) (OECD 202)
EC50/72h 770 mg/l (green alge) (OECD 201)
EC50/96h 640 mg/l (Scenedesmus pluvialis)
IC5/96h 640 mg/l (Scenedesmus quadricauda)

LC50/96h 645 mg/l (goo)

NOEC/21d

10 mg/l (lepomis macrochirus) 460 mg/l (Pimephales promelas) 51 mg/l (daphnia magna) (OECD211)

## 1477-55-0 m-phenylenebis(methylamine)

EC50/48h	15.2 mg/l (daphnia magna)

EC50/72h 12 mg/l (Scenedesmus subspicatus) 20.3 mg/l (selenastrum capricornutum)

LC50/96h >100 mg/l (Zebrabärbling)

### 25154-52-3 nonylphenol

EC50/48h >0.01 mg/l (daphnia magna)

EC50/72h
 EC50/96h
 LC50/96h
 NOEC
 NOEC/21d
 >0.1 mg/l (Scenedesmus subspicatus)
 >0.1 mg/l (Pimephales promelas)
 0.14-0.27 mg/l (Pimephales promelas)
 0.007 mg/kg (pimephales promelas)
 0.024 mg/l (daphnia magna)

 $\cdot$  **Persistence and degradability** No further relevant information available.

· Behavior in environmental systems:

Bioaccumulative potential
 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Ecotoxical effects:

- Remark: Harmful to fish

· Additional ecological information:

• General notes: Do not allow product to reach ground water, water course or sewage system.

Harmful to aquatic organisms

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

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

Other adverse effects
 No further relevant information available.

### 13 Disposal considerations

· Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product

to reach sewage system.

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· Uncleaned packagings:

• Recommendation: Empty contaminated packagings thoroughly. They can be recycled after

thorough and proper cleaning.

· Recommended cleansing agent: Alcohol

acetone

### 14 Transport information

. IIN-Number

DOT, ADR, IMDG, IATA	UN2735
· UN proper shipping name	
· DOT	Polyamines, liquid, corrosive, n.o.s. (Isophoronediamine, m-phenylenebis(methylamine))
· <u>ADR</u>	2735 Polyamines, liquid, corrosive, n.o.s. (Isophoronediamine, m-phenylenebis(methylamine))
· <u>IMDG</u> , <u>IATA</u>	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, m-phenylenebis(methylamine))

## · Transport hazard class(es)

· DOT



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

· Label

· ADR



· Class 8 (C7) Corrosive substances

- Label

· IMDG, IATA



· Class 8 Corrosive substances.

· Label 8

· Packing group

· DOT, ADR, IMDG, IATA

· Environmental hazards:

Marine pollutant:

· Special precautions for user Warning: Corrosive substances

Danger code (Kemler):
EMS Number:
Segregation groups
Alkalis

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· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

UN2735, Polyamines, liquid, corrosive, n.o.s. (Isophoronediamine, m-· UN "Model Regulation":

phenylenebis(methylamine)), 8, III

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Section 355 (extremely hazardous substances):

108-95-2 phenol

· Section 313 (Specific toxic chemical listings):

108-95-2 phenol

· TSCA (Toxic Substances Control Act):

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.

- Cancerogenity categories
- · EPA (Environmental Protection Agency)

108-95-2 phenol D, I

TLV (Threshold Limit Value established by ACGIH)

108-95-2 phenol Α4

· MAK (German Maximum Workplace Concentration)

108-95-2 phenol 3B

· 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.

The product is classified and labeled according to the Globally Harmonized · GHS label elements System (GHS)

· Hazard pictograms

GHS05 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

nonylphenol phenol Benzyl alcohol

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## **AKEMI®**

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# Safety Data Sheet

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Hazard statements
 H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects.

H361 Suspected of damaging fertility or the unborn child.

• Precautionary statements 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.

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

protection.

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

contaminated clothing. Rinse skin with water/shower.

P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if

you feel unwell.

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.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/

physician if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· National regulations:

 $\cdot \underline{\text{Information about limitation of use:}} \ \ \underline{\text{Employment restrictions concerning young persons must be observed.}}$ 

Employment restrictions concerning pregnant and lactating women must be

observed.

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

VOC USA
 168.3 g/l / 1.40 lb/gl

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

#### 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

· Contact: Dieter Zimmermann

Elke Hake

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

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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 Organization

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 Transportation 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

USA