

# Safety Data Sheet

acc. to OSHA HCS

Printing date 04/03/2017

Reviewed on 04/03/2017

## 1 Identification

### Product identifier

- Trade name: **Akepox 2010 Component B**
- Article number: 10616, 10623, 10624, 10627, 10598, 10615
- Application of the substance / the mixture: 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.
- STOT RE 2 H373 May cause 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.



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

### Label elements

#### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### Hazard pictograms



GHS05 GHS07 GHS08

#### Signal word

Danger

#### Hazard-determining components of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine  
nonylphenol  
Formaldehyde, polymer with 1,3-phenylenebis(methylamine) and phenol  
Benzyl alcohol  
m-phenylenebis(methylamine)  
Aminosilane  
H302 Harmful if swallowed.

#### Hazard statements

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Precautionary statements

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.  
 H373 May cause damage to organs through prolonged or repeated exposure.

P260 Do not breathe vapours.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor 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
- PBT: Not applicable.
- vPvB: Not applicable.

**3 Composition/information on ingredients**

Chemical characterization: Mixtures

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

Dangerous components:

CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9	3-aminomethyl-3,5,5-trimethylcyclohexylamine ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	25-50%
CAS: 57214-10-5 NLP: 500-137-0	Formaldehyde, polymer with 1,3-phenylenebis(methylamine) and phenol ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Skin Sens. 1, H317	25-50%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	12.5-25%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	1-5%

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CAS: 25154-52-3 EINECS: 246-672-0 Index number: 601-053-00-8	nonylphenol  Repr. 2, H361  Skin Corr. 1B, H314  Acute Tox. 4, H302	1-5%
CAS: 69-72-7 EINECS: 200-712-3	Salicylic acid  Eye Dam. 1, H318  Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	1-5%
	Aminosilane  Eye Dam. 1, H318  Skin Sens. 1, H317	1-5%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2	phenol  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%

· Additional information: For the wording of the listed hazard 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.

· After swallowing:

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

· Information for 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%); measures 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

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- Danger Danger of impaired breathing.
- Indication of any immediate medical attention and special treatment needed 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 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 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.
- **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.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

100-51-6	Benzyl alcohol	30 ppm
67762-90-7	Siloxane und Silicone, di-Me, Reaktionsprodukt mit Silica	120 mg/m <sup>3</sup>
25154-52-3	nonylphenol	4.9 mg/m <sup>3</sup>
	Aminosilane	23 mg/m <sup>3</sup>
108-95-2	phenol	15 ppm
67-56-1	methanol	530 ppm

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· PAC-2:		
100-51-6	Benzyl alcohol	52 ppm
67762-90-7	Siloxane und Silicone, di-Me, Reaktionsprodukt mit Silica	1,300 mg/m <sup>3</sup>
25154-52-3	nonylphenol	53 mg/m <sup>3</sup>
	Aminosilane	250 mg/m <sup>3</sup>
108-95-2	phenol	23 ppm
67-56-1	methanol	2,100 ppm

· PAC-3:		
100-51-6	Benzyl alcohol	740 ppm
67762-90-7	Siloxane und Silicone, di-Me, Reaktionsprodukt mit Silica	7,900 mg/m <sup>3</sup>
25154-52-3	nonylphenol	320 mg/m <sup>3</sup>
	Aminosilane	1,500 mg/m <sup>3</sup>
108-95-2	phenol	200 ppm
67-56-1	methanol	7200* ppm

**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 against explosions and fires:      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:      8
- **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:      The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the other constituents have no known exposure limits.

**100-51-6 Benzyl alcohol**

WEEL Long-term value: 10 ppm

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**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

**108-95-2 phenol**

PEL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Skin
REL	Long-term value: 19 mg/m <sup>3</sup> , 5 ppm Ceiling limit value: 60* mg/m <sup>3</sup> , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m <sup>3</sup> , 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)
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· 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.

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:

SLIG SPEZIAL (<http://www.stoko.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 analyses 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

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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  
 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**

· Body protection:

Protective work clothing

**9 Physical and chemical properties**

**· Information on basic physical and chemical properties**

· General Information

· Appearance:

Form: Pasty  
Color: Light yellow  
Odor: Characteristic

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· <u>pH-value:</u>	Not applicable
· <u>Change in condition</u>	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	205 °C (401 °F)
· <u>Flash point:</u>	101 °C (214 °F)
· <u>Ignition temperature:</u>	380 °C (716 °F)
· <u>Decomposition temperature:</u>	> 250 °C (> 482 °F)
· <u>Auto igniting:</u>	Product is not selfigniting.
· <u>Danger of explosion:</u>	Product does not present an explosion hazard.
· <u>Explosion limits:</u>	
Lower:	1.3 Vol %
Upper:	13.0 Vol %
· <u>Vapor pressure at 20 °C (68 °F):</u>	0.1 hPa
· <u>Density at 20 °C (68 °F):</u>	1.08 g/cm <sup>3</sup> (9.013 lbs/gal)
· <u>Specific gravity at 20 °C (68 °F):</u>	1.08 g/cm <sup>3</sup> (9.013 lbs/gal)
· <u>Solubility in / Miscibility with</u>	
Water:	Not miscible or difficult to mix.
· <u>Viscosity:</u>	
Dynamic:	Not determined.
Kinematic:	Not determined.
· <u>Solvent content:</u>	
Organic solvents:	11.5 %
Solids content:	84.7 %
· <b>Other information</b>	No further relevant information available.

\* **10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- 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.  
Reacts with strong oxidizing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Corrosive gases/vapors

\* **11 Toxicological information**

- **Information on toxicological effects**
- Acute toxicity:

· <u>LD/LC50 values that are relevant for classification:</u>		
<b>ATE (Acute Toxicity Estimates)</b>		
Oral	LD50	1376 mg/kg
Dermal	LD50	3019 mg/kg
Inhalative	LC50/4 h	26.9 mg/l

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<b>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</b>		
Oral	LD50	1030 mg/kg (rat)
	NOAEL-Werte	>250 mg/kg (rat)
Dermal	LD50	1840 mg/kg (rabbit)
		>2000 mg/kg (rat)
Inhalative	LC50/4 h	(rat)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1040 mg/kg (mouse)
		1040 mg/kg (rabbit)
		1620 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4h	>4178 mg/m3 (rat)
	LC50/8h	1000 ppm (rat)
	LC50/4 h	> 1000 mg/l (rat)
	LC50/48h	360 mg/l (daphnia magna)
		645 mg/l (goo)
<b>25154-52-3 nonylphenol</b>		
Oral	LD50	200-2000 mg/kg (rat)
Dermal	LD50	2031 mg/kg (rabbit)
<b>108-95-2 phenol</b>		
Oral	LD50	300 mg/kg (mouse)
		317 mg/kg (rat)
Dermal	LD50	630 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

· <u>IARC (International Agency for Research on Cancer)</u>	
108-95-2 phenol	3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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**12 Ecological information****· Toxicity****· Aquatic toxicity:****2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

EC50/24h	44 mg/l (daphnia magna)
LC 0/96h	70 mg/l (piscis)
EC10/18h	1120 mg/l (pseudomonas putida)
EC50/48h	23 mg/l (daphnia magna) (OECD TG 202)
NOEC/21d	3 mg/l (daphnia magna)
EC50/72h	37 mg/l (green alge) (EG 88/302)
	50 mg/l (Scenedesmus subspicatus)
LC50/96h	110 mg/l (Brachydanio rerio) (EG 84/449)

**100-51-6 Benzyl alcohol**

EC50/24h	55-400 mg/l (daphnia magna)
EC50/96h	640 mg/l (Scenedesmus pluvialis)
EC50	21°0 mg/l (BES) (OECD 209)
	79 mg/l (Scenedesmus quadricauda)
EC10/16h	658 mg/l (pseudomonas putida)
EC50/48h	230 mg/l (daphnia magna) (OECD 202)
EC0	640 mg/l (Scenedesmus quadricauda)
EC50/16h	658 mg/l (pseudomonas putida)
EC50/30min	71.4 mg/l (Photobac. phosphoreum)
	400 mg/l (pseudomonas putida)
IC5/96h	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 (Iepomis macrochirus)
	460 mg/l (Pimephales promelas)

**25154-52-3 nonylphenol**

EC50/96h	>0.1 mg/l (Pimephales promelas)
EC50/48h	>0.01 mg/l (daphnia magna)
NOEC	0.007 mg/kg (pimephales promelas)
NOEC/21d	0.024 mg/l (daphnia magna)
EC50/72h	>0.1 mg/l (Scenedesmus subspicatus)
LC50/96h	0.14-0.27 mg/l (Pimephales promelas)

**108-95-2 phenol**

EC50/24h	21 mg/l (BO)
EC50/96h	61.1 mg/l (green alge)
EC50/48h	3.1 mg/l (daphnia magna)
LC50/96h	8.9 mg/l (Oncorhynchus mykiss)

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

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- Mobility in soil No further relevant information available.
- **Ecotoxicological 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.
- **Uncleaned packagings:**
- Recommendation: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- Recommended cleansing agent: Alcohol  
acetone

\* **14 Transport information**

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

- **Transport hazard class(es)**

- DOT
- 
- Class 8 Corrosive substances
- Label 8

- ADR
- 
- Class 8 (C7) Corrosive substances

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· <u>Label</u>	8
· <u>IMDG, IATA</u>	
	
· <u>Class</u>	8 Corrosive substances
· <u>Label</u>	8
· <b>Packing group</b>	
· DOT, ADR, IMDG, IATA	III
· <b>Environmental hazards:</b>	
· <u>Marine pollutant:</u>	No
· <b>Special precautions for user</b>	Warning: Corrosive substances
· <u>Danger code (Kemler):</u>	80
· <u>EMS Number:</u>	F-A,S-B
· <u>Segregation groups</u>	Alkalis
· <u>Stowage Category</u>	A
· <u>Segregation Code</u>	SG35 Stow "separated from" acids.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <u>DOT</u>	
· <u>Quantity limitations</u>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <u>ADR</u>	
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <u>IMDG</u>	
· <u>Limited quantities (LQ)</u>	5L
· <u>Excepted quantities (EQ)</u>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, M-PHENYLENEBIS(METHYLAMINE)), 8, III

**15 Regulatory information**· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· Sara· Section 355 (extremely hazardous substances):

108-95-2 phenol

· Section 313 (Specific toxic chemical listings):

25154-52-3 nonylphenol

108-95-2 phenol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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## · 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.

· Carcinogenicity categories

## · EPA (Environmental Protection Agency)

108-95-2 phenol

D, I

· TLV (Threshold Limit Value established by ACGIH)

108-95-2 phenol

A4

· 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.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS05 GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine  
 nonylphenol  
 Formaldehyde, polymer with 1,3-phenylenebis(methylamine) and phenol  
 Benzyl alcohol  
 m-phenylenebis(methylamine)  
 Aminosilane

· 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.  
 H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

P260 Do not breathe vapours.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P405 Store locked up.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- National regulations:
- Information about limitation of use: Employment restrictions concerning young persons must be observed.  
Employment restrictions concerning pregnant and lactating women must be observed.
- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- VOC USA 200.0 g/l / 1.67 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 SDS: Laboratory
- Contact: Dieter Zimmermann  
Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de
- Date of preparation / last revision 04/03/2017 / 3
- 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 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
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - BEI: Biological Exposure Limit
  - Acute Tox. 3: Acute toxicity – Category 3
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Muta. 2: Germ cell mutagenicity – Category 2
  - Repr. 2: Reproductive toxicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2