

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

1 Identification

· Product identifier

- Trade name: **Akepox 2040 Component B**
- Article number: 10611, 10606, 10622, 0
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Epoxy resin adhesive

· 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

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



GHS05 Corrosion

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



GHS07

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.



Harmful

Harmful if swallowed.



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 be treated immediately, as it may otherwise cause badly curing wounds.

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.

(Contd. on page 2)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 1)

· Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **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
m-phenylenebis(methylamine)
Aminosilane

· Hazard statements H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

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.

· **Classification system:**

· NFPA ratings (scale 0 - 4)

3	0	0
HEALTH	FIRE	REACTIVITY
*3	0	0

Health = 3
Fire = 0
Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	FIRE	REACTIVITY
*3	0	0

Health = *3
Fire = 0
Reactivity = 0

· **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.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 2)

· Dangerous components:		
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%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol ☠ Xn R20/22 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<12.5%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) ☠ C R35; ☠ Xn R20/22; ☠ Xi R43 R52/53 ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317	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%
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: 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%

· 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.
- 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%); 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

(Contd. on page 4)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 3)

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

- Breathing difficulty
- Headache
- Dizziness
- Dizziness
- Coughing
- Nausea
- Danger of impaired breathing.

· Danger
 · 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 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.

· 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.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 4)

- **Reference to other sections**
 - Dispose contaminated material as waste according to item 13.
 - Ensure adequate ventilation.
 - 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 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:

100-51-6 Benzyl alcohol

WEEL Long-term value: 10 ppm

1477-55-0 m-phenylenebis(methylamine)

REL Ceiling limit value: 0.1 mg/m³
Skin

TLV Ceiling limit value: 0.1 mg/m³
Skin

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

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 5)

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 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 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.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS


Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 6)

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 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:

<u>Form:</u>	Pasty
<u>Color:</u>	Yellowish
<u>Odor:</u>	Characteristic

· pH-value: Not applicable

· Change in condition

<u>Melting point/Melting range:</u>	Undetermined.
<u>Boiling point/Boiling range:</u>	100 °C (212 °F)

· Flash point: Not applicable.

· 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:

<u>Lower:</u>	1.2 Vol %
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· Vapor pressure: Not determined.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 7)

· Density at 20 °C (68 °F):	1.67 g/cm ³ (13.936 lbs/gal)
· Specific gravity at 20 °C (68 °F):	1.67 g/cm ³ (13.936 lbs/gal)
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic:	Not determined. Not applicable
Kinematic:	Not determined. Not applicable
· Solvent content:	
Organic solvents:	6.9 %
Solids content:	37.1 %
· Other information	No further relevant information available.

10 Stability and reactivity· **Reactivity**· 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:

· LD/LC50 values that are relevant for classification:

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)

25154-52-3 nonylphenol

Oral	LD50	200-2000 mg/kg (rat)
Dermal	LD50	2031 mg/kg (rabbit)

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.

(Contd. on page 9)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 8)

- 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)

14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	2B
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)
LC50/96h	110 mg/l (Brachydanio rerio) (EG 84/449)
NOEC/21d	3 mg/l (daphnia magna)

25154-52-3 nonylphenol

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

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- Bioaccumulative potential No further relevant information available.
- 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.

(Contd. on page 10)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 9)

· **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

· Label

8

· IMDG, IATA· Class

8 Corrosive substances.

· Label

8

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

III

· **Environmental hazards:**· Marine pollutant:

No

(Contd. on page 11)

USA

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 10)

<ul style="list-style-type: none"> · Special precautions for user · <u>Danger code (Kemler):</u> · <u>EMS Number:</u> · <u>Segregation groups</u> 	<p>Warning: Corrosive substances 80 F-A,S-B Alkalis</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN2735, Polyamines, liquid, corrosive, n.o.s. (Isophoronediamine, m-phenylenebis(methylamine)), 8, III</p>

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- Sara

· <u>Section 355 (extremely hazardous substances):</u>	
108-95-2	phenol

· <u>Section 313 (Specific toxic chemical listings):</u>	
108-95-2	phenol

· <u>TSCA (Toxic Substances Control Act):</u>	
All ingredients are listed.	

· Proposition 65

· <u>Chemicals known to cause cancer:</u>	
None of the ingredients is listed.	

· <u>Chemicals known to cause reproductive toxicity for females:</u>	
None of the ingredients is listed.	

· <u>Chemicals known to cause reproductive toxicity for males:</u>	
None of the ingredients is listed.	

· <u>Chemicals known to cause developmental toxicity:</u>	
None of the ingredients is listed.	

- Cancerogenity categories

· <u>EPA (Environmental Protection Agency)</u>		
7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
108-95-2	phenol	D, I

· <u>TLV (Threshold Limit Value established by ACGIH)</u>		
14807-96-6	Talc (Mg3H2(SiO3)4)	A4
108-95-2	phenol	A4

· <u>MAK (German Maximum Workplace Concentration)</u>		
14807-96-6	Talc (Mg3H2(SiO3)4)	3B
108-95-2	phenol	3B

· <u>NIOSH-Ca (National Institute for Occupational Safety and Health)</u>	
None of the ingredients is listed.	

· <u>OSHA-Ca (Occupational Safety & Health Administration)</u>	
None of the ingredients is listed.	

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

(Contd. on page 12)

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/22/2014

Reviewed on 01/22/2014

Trade name: Akepox 2040 Component B

(Contd. of page 11)

· Hazard pictograms

GHS05 GHS07 GHS08

· Signal word

Danger

· Hazard-determining components of labeling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine
 nonylphenol
 m-phenylenebis(methylamine)
 Aminosilane

· Hazard statements

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 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:

· 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

116.2 g/l / 0.97 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:**

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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

(Contd. on page 13)

USA

Safety Data Sheet
acc. to OSHA HCS

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Trade name: Akepox 2040 Component B

(Contd. of page 12)

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