

Printing date 07/07/2003

Reviewed on 07/07/2003

1 Identification of substance· Product details· Trade name: **Akepox 1000 Component B**· Article number: 10674, 10675· Application of the substance / the preparation Reaction resin· Manufacturer/Supplier: AKEMI Erich Höntsch GmbH
Lechstrasse 28
D 90451 NürnbergTel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de· Information department: Laboratory**2 Composition/Data on components**· Chemical characterization· Description: Mixture of the substances listed below with nonhazardous additions.· Dangerous components:

CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine	50-100%
EINECS: 220-666-8		
EU Number: 612-067-00-9		

CAS: 100-51-6	benzyl alcohol	25-50%
EINECS: 202-859-9		
EU Number: 603-057-00-5		

CAS: 103-83-3	benzyl dimethylamine	2.5-10%
EINECS: 203-149-1		
EU Number: 612-074-00-7		

· Additional information: For the wording of the listed risk phrases refer to section 16.**3 Hazards identification**· Hazard description: Corrosive· Information pertaining to particular dangers for man and environment: Harmful by inhalation, in contact with skin and if swallowed.
Causes burns.
May cause sensitization by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment· Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.· NFPA ratings (scale 0 - 4) Health = 2

Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4) Health = 2

Fire = 1

Reactivity = 0

4 First aid measures· General information: Immediately remove any clothing soiled by the product.· 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: Clean with water and soap. If possible, also wash with polyethylene glycol 400.· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.· After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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5 Fire fighting measures

- Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards caused by the material, its products of combustion or resulting gases: 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 (NO_x)
- Protective equipment: Wear fully protective suit.
Wear self-contained 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

- Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
Do not allow to penetrate the ground/soil.
- Measures for cleaning/collecting: 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.

7 Handling and storage

- Handling:
- Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- Storage class: 8

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components 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.
- Additional information: The lists that were valid during the creation were used as basis.
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.

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|---|--|
| <ul style="list-style-type: none"> · <u>Breathing equipment:</u> · <u>Protection of hands:</u> · <u>Eye protection:</u> · <u>Body protection:</u> | <p>Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
 Do not inhale gases / fumes / aerosols.
 Not necessary if room is well-ventilated.
 Plastic gloves
 Tightly sealed goggles
 Protective work clothing</p> |
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9 Physical and chemical properties

· General Information

<u>Form:</u>	Fluid
<u>Color:</u>	Light yellow
<u>Odor:</u>	Amine-like

· Change in condition

<u>Melting point/Melting range:</u>	Undetermined.
<u>Boiling point/Boiling range:</u>	Undetermined.

- | | |
|--|---|
| · <u>Flash point:</u> | > 100°C (> 212°F) |
| · <u>Ignition temperature:</u> | > 300°C (> 572°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> | |
| <u>Lower:</u> | 1.2 Vol % |
| <u>Upper:</u> | 13.0 Vol % |
| · <u>Vapor pressure at 20°C (68°F):</u> | 0.3 hPa (0 mm Hg) |
| · <u>Density at 20°C (68°F):</u> | ~ 0.98 g/cm ³ |
| · <u>Solubility in / Miscibility with Water:</u> | Slightly soluble. |
| · <u>Viscosity:</u> | |
| <u>Dynamic at 20°C (68°F):</u> | 20 mPas |

10 Stability and reactivity

- | | |
|--|---|
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used according to specifications. |
| · <u>Dangerous reactions</u> | Strong exothermic reaction with acids. |
| · <u>Dangerous products of decomposition:</u> | Corrosive gases/vapors |

11 Toxicological information

- Acute toxicity:
- LD/LC50 values that are relevant for classification:

100-51-6 benzyl alcohol

Oral LD50 1230 mg/kg (rat)

Dermal LD50 2000 mg/kg (rbt)

- Primary irritant effect:

- | | |
|-------------------------|--|
| · <u>on the skin:</u> | Caustic effect on skin and mucous membranes. |
| · <u>on the eye:</u> | Strong caustic effect. |
| · <u>Sensitization:</u> | No sensitizing effects known. |

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· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

· Product:

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

· DOT regulations:

· Hazard class:

8

· Identification number:

UN2735

· Packing group:

III

· Proper shipping name (technical name): Polyamines, liquid, corrosive, n.o.s., contains isophoronediamine, benzyldimethylamine

· Label

8

· Land transport ADR/RID (cross-border):

· ADR/RID class:

8 (C7) Corrosive substances

· Danger code (Kemler):

80

· UN-Number:

2735

· Packaging group:

III

· Description of goods:

2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ISOPHORONEDIAMINE, BENZYLDIMETHYLAMINE)

· Maritime transport IMDG:

· IMDG Class:

8

· UN Number:

2735

· Label

8

· Packaging group:

III

· EMS Number:

F-A,S-B

· Marine pollutant:

No

· Propper shipping name:

Polyamines, liquid, corrosive, n.o.s., contains isophoronediamine, benzyldimethylamine

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class:

8

· UN/ID Number:

2735

· Label

8

· Packaging group:

III

· Propper shipping name:

Polyamines, liquid, corrosive, n.o.s., contains isophoronediamine, benzyldimethylamine

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