

Printing date 12/15/2005

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\* **1 Identification of substance**

· Product details

- Trade name: **Akepox 5010 Component B**
- Article number: 10685, 10686, 10684, 10687
- Application of the substance / the preparation Epoxy resin adhesive
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH      Tel. +49(0)911-642960  
Lechstrasse 28      Fax. +49(0)911-644456  
D 90451 Nürnberg      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:

cycloaliphatic polyamines	25-50%
C; R 21/22-34-43	

CAS: 100-51-6	Benzyl alcohol	12.5-25%
EINECS: 202-859-9	Xn; R 20/22-43	
EU Number: 603-057-00-5		

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

**3 Hazards identification**

- Hazard description: C Corrosive
- Information pertaining to particular dangers for man and environment: 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.  
Harmful in contact with skin and if swallowed.  
Causes burns.  
May cause sensitization by skin contact.
- 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 = 3  
Fire = 1  
Reactivity = 0
- HMIS-ratings (scale 0 - 4) Health = 3  
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.  
Call a doctor immediately.

**5 Fire fighting measures**

- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- 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 (NOx)
- 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 penetrate the ground/soil.  
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: Pick up mechanically.  
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.  
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.
- Breathing equipment:
- Protection of hands: Protective gloves
- Material of gloves Butyl rubber, BR

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| <ul style="list-style-type: none"> <li>· <u>Penetration time of glove material</u></li> <li>· <u>Eye protection:</u></li> <li>· <u>Body protection:</u></li> </ul> | <p>Nitrile rubber, NBR<br/>Fluorocarbon rubber (Viton)<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.<br/>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.<br/>Tightly sealed goggles<br/>Protective work clothing</p> |
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## 9 Physical and chemical properties

### · General Information

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| <ul style="list-style-type: none"> <li>· <u>Form:</u></li> <li>· <u>Color:</u></li> <li>· <u>Odor:</u></li> <li>· <u>Change in condition</u></li> <li>· <u>Melting point/Melting range:</u></li> <li>· <u>Boiling point/Boiling range:</u></li> <li>· <u>Flash point:</u></li> <li>· <u>Ignition temperature:</u></li> <li>· <u>Auto igniting:</u></li> <li>· <u>Danger of explosion:</u></li> <li>· <u>Vapor pressure at 20°C (68°F):</u></li> <li>· <u>Density at 20°C (68°F):</u></li> <li>· <u>Solubility in / Miscibility with Water:</u></li> </ul> | <p>Pasty<br/>Structurally viscous<br/>Colorless<br/>Opaque<br/>Amine-like<br/>Undetermined.<br/>205°C (401°F)<br/>101°C (214°F)<br/>435°C (815°F)<br/>Product is not selfigniting.<br/>Product does not present an explosion hazard.<br/>0.1 hPa (0 mm Hg)<br/>~ 1.15 g/cm<sup>3</sup><br/>Partly soluble.</p> |
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## 10 Stability and reactivity

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| <ul style="list-style-type: none"> <li>· <u>Thermal decomposition / conditions to be avoided:</u></li> <li>· <u>Dangerous reactions</u></li> <li>· <u>Dangerous products of decomposition:</u></li> </ul> | <p>No decomposition if used according to specifications.<br/>Strong exothermic reaction with acids.<br/>Corrosive gases/vapors</p> |
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## 11 Toxicological information

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| <ul style="list-style-type: none"> <li>· <u>Acute toxicity:</u></li> <li>· <u>Primary irritant effect:</u></li> <li>· <u>on the skin:</u></li> <li>· <u>on the eye:</u></li> <li>· <u>Sensitization:</u></li> <li>· <u>Additional toxicological information:</u></li> </ul> | <p>Caustic effect on skin and mucous membranes.<br/>Strong caustic effect.<br/>Sensitization possible through skin contact.<br/>The product shows the following dangers according to internally approved calculation methods for preparations:<br/>Harmful<br/>Corrosive<br/>Irritant<br/>Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.</p> |
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## 12 Ecological information

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| <ul style="list-style-type: none"> <li>· <u>General notes:</u></li> </ul> | <p>Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.</p> |
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Water hazard class 1 (Self-assessment): slightly hazardous for water

**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 cycloaliphatic polyamine
- 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. (cycloaliphatic polyamines)
- Maritime transport IMDG:
- IMDG Class: 8
- UN Number: 2735
- Label: 8
- Packaging group: III
- EMS Number: F-A,S-B
- Marine pollutant: No
- Proper shipping name: Polyamines, liquid, corrosive, n.o.s., contains cycloaliphatic polyamine
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 8
- UN/ID Number: 2735
- Label: 8
- Packaging group: III
- Proper shipping name: Polyamines, liquid, corrosive, n.o.s., contains cycloaliphatic polyamine

**15 Regulations**

- Sara
- Section 355 (extremely hazardous substances):  
None of the ingredient is listed.
- Section 313 (Specific toxic chemical listings):  
None of the ingredients is listed.
- 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.

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- Chemicals known to cause developmental toxicity:  
None of the ingredients is listed.
- Cancerogenity categories  
· EPA (Environmental Protection Agency)  
None of the ingredients is listed.
- IARC (International Agency for Research on Cancer)  
None of the ingredients is listed.
- NTP (National Toxicology Program)  
None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)  
None of the ingredients is listed.
- MAK (German Maximum Workplace Concentration)  
None of the ingredients is listed.
- 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.
- Product related hazard informations: The product has been classified and marked in accordance with directives on hazardous materials.
- Hazard symbols: C Corrosive
- Hazard-determining components of labelling: cycloaliphatic polyamines
- Risk phrases: Harmful in contact with skin and if swallowed.  
Causes burns.  
May cause sensitization by skin contact.
- Safety phrases: Keep locked up and out of the reach of children.  
Avoid contact with skin and eyes.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point  
Wear suitable protective clothing, gloves and eye/face protection.  
In case of accident or if you feel unwell, seek medical advice immediately.
- National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

**\* 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
- \* Data compared to the previous version altered.

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