

Material Safety Data Sheet

According to EC directive 2001/58/EC

Product name:	Aka-Resin	Page:	1/5
Last revised date:	20-06-2008	Print date:	20-04-2005
Art.-no.:	8510 - 8520	Template:	1.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name:	Aka-Resin		
Application:	Epoxy resin	Container size:	1 l, 5 l
Supplier:	AKASEL ApS Vanløse Sand 2 DK-4370 St. Merløse Tel +45 57 84 05 01 Fax +45 57 84 06 01		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name:	CAS-No.:	%:	Hazard classification:	Notes:
Bisphenol-A	025068-38-6	>50	Xi; R36/38, R43, N;R51/53	
Cresyl glycidyl ether	026447-14-3	<50	Mut.C.3; R68, Xi;R38, R43, N; R51/53	

3. HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitization by skin contact. Possible risks of irreversible effects.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Inhalation:	Move into fresh air and keep at rest if effects occur, consult a physician.
Skin contact:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Seek medical attention if symptoms occur or irritation persists. Wash clothing before reuse. Remove residues with soap and water.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.
Ingestion:	Do not induce vomiting. Give one glass (ca. 2.5 dL) of water or milk if available and transport to medical facility. Do not give anything by mouth to an unconscious person.
Note to Physician	If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration

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of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media:	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container if no risk is involved
Hazardous Combustion Products:	Under conditions of incomplete combustion or pyrolysis, phenolics and carbon oxides may be evolved. The thermal decomposition products therefore should be treated as potentially hazardous substances and appropriate precautions should be taken.
Protective equipment	Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear adequate personal protective equipment, see Section 8, EXPOSURE CONTROLS/PERSONAL PROTECTION.
Environmental precautions:	Contain liquid to prevent contamination of soil, surface water or ground water.
Methods for cleaning up:	use non-combustible absorbent material/sand and shovel into appropriate containers.

7. HANDLING AND STORAGE

Safe handling advice:	Avoid eye and skin contact. Avoid breathing vapours.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures:	Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure limits, including but not limited to enclosures, local ventilation, and dilution ventilation. Ensure eyewash station is available
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Respiratory equipment: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved airpurifying respirator.

Hand protection: Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms.

Eye protection: Risk of contact: Wear goggles/face shield

Skin protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, gloves, boots, apron, or full body-suit will depend on operation. Safety shower should be located in immediate work area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which cannot be decontaminated, such as shoes, belts and watchbands, should be removed and disposed of properly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light transparent liquid
Odour:	none
pH:	not applicable
Boiling point:	decomposes prior to boiling
Flash point:	121 deg.C (ASTM D93)
Flammable limits:	Lower > 1.6 vol%, Upper <3.6 vol%
Relative density:	1.11 – 1.16 (Water = 1.0)
Solubility:	<1 %wt (25 deg.C).

10. STABILITY AND REACTIVITY

Stability:	Stable under normal handling and storage conditions
Conditions/ materials to avoid:	Acids. Amines. Bases. Oxidising agents. Mixture with these materials will result in a temperature and/or pressure increase.

11. TOXICOLOGICAL INFORMATION

Inhalation:	A single brief (minutes) inhalation exposure is not likely to cause adverse effects. Excessive inhalation exposure to vapours or aerosols may cause serious adverse effects.
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Skin contact: Brief contact may cause skin irritation with local redness. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response on covered skin (under clothing, gloves)..

Eye contact: May cause slight eye irritation. Corneal injury is unlikely.

Ingestion: Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.
The oral LD50 for rats is >2000 mg/kg. Ingestion may cause gastrointestinal irritation or ulceration.

12. ECOLOGICAL INFORMATION

Mobility: Resin: Partitioning from water to n-octanol is not applicable. For the minor component(s): Bioconcentration potential is low (BCF less than 100 or log Pow less than 3).

Degradability: Based on the stringent OECD test guidelines, this material can not be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Ecotoxicity: Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in most sensitive species). For the minor component(s): Acute LC50 for rainbow trout (*Onchorynchus mykiss*) is 7.5 mg/L. Acute EC50 for water flea *Daphnia magna* is 3.3 mg/L.

13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues according to agreement with local authorities.

14. TRANSPORT INFORMATION

Sea (IMDG):	Not regulated
Land (RID/ADR):	Not regulated
Air (ICAO/IATA):	Not regulated

15. REGULATORY INFORMATION

Labelling:

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R/S sentece(s):

Irritating to eyes and skin (R36/38).

May cause sensitisation by skin contact (R43).

Possible risk of irreversible effects (R68).

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53).

Avoid contact with skin (S24).

Wear suitable protective clothing, gloves and eye/face protection (S36/37/39).

Avoid release to the environment. Refer to special instructions/Safety data sheet (S61)..

16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.