

Material Safety Data Sheet

According to EC directive 2001/58/EC

Product name:	Aka-Clear, Liquid	Page:	1/5
Last revised date:	20-11-2008	Print date:	20-11-2008
Art.-no.:	8610	Template:	1.0

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

Product name:	Aka-Crylic, Liquid		
Application:	Embedding	Container size:	500 ml
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

The product contains: Methylmethacrylat

Chemical name:	CAS-No.:	%:	Hazard classification:	Notes:
Methylmethacrylat	80-62-6	<100	F;Xi, R 11, 36/37/38, 43	-

3. HAZARDS IDENTIFICATION

The product is highly flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an open flame. Risk of burst of containers from strong exotherm reaction by uncontrolled polymerisation.

Man: Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain. The liquid may irritate the skin, the eyes and the respiratory tract.

4. FIRST-AID MEASURES

Burns:	Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Optimal temperature for flushing water is 16°C
Inhalation:	Move into fresh air and keep at rest
Skin contact:	Remove contaminated clothes and rinse skin thoroughly with water and soap.
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.

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Ingestion: Immediately rinse mouth and drink plenty of water. If uncomfortable:
Seek hospital and bring along these instructions

5. FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container if no risk is involved

Specific hazards: The product is flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an open flame

Protective equipment Use air-supplied respirator during fire fighting

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Do not smoke or use open fire or other sources of ignition. Avoid inhalation of vapours and contact with skin and eyes.

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

Methods for cleaning up: Absorb spillage with non-combustible, absorbing material.

7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial hygiene practices.

Technical measures: Do not smoke or use open fire or other sources of ignition

Technical precautions: Local exhaust is recommended

Technical measures for safe storage: Flammable and Combustible Liquids Code, should be followed for all storage and handling. Consult local fire codes for additional storage information.

Storage conditions: Protect container against physical damage. Detached or outside storage is preferred. Inside storage should be in approved flammable liquids storage room or cabinet. All ignition sources should be eliminated.

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.

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Respiratory equipment: Ensure eyewash station is available
In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with gas filter, type A2

Hand protection: Wear protective gloves. Risk of contact: Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Consult the glove supplier to find the most suitable gloves.

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

Skin protection: Wear protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent liquid

Odour: Methacrylate

pH: Not relevant

Boiling point: >100°C

Flash point: 13°C

Flammable limits: Lower > 1.1 vol%, Upper <12.5 vol%

Relative density: 1.8 (Air = 1.0)

Solubility: Low soluble in water.

10. STABILITY AND REACTIVITY

Stability: The product has been stabilized

Conditions/ materials to avoid: Avoid heat, exposure to sun contact with strong oxidizers, excessive heat, sparks or open flame.
Contact with peroxide or other oxidizing agents, heavy metals and azo agents may result in a violent exothermic reaction.

Hazardous decomposition products: Not expected to decompose under normal conditions.

11. TOXICOLOGICAL INFORMATION

Inhalation: LC50 29.8 mg/l 7093 ppm

Skin contact: LD 50 >5000 mg/Kg.

Eye contact: Irritation.

Ingestion: LD 50 >5000 mg/Kg

Specific effects:

Carcinogenicity: None according to ingestion and inhalation experiments on dog, rat and mice.

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12. ECOLOGICAL INFORMATION

Degradability: The product is easy biodegradable 94%. OECD 301D
 Ecotoxicity: Fish LC50 >79 mg/l

13. DISPOSAL CONSIDERATIONS

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

Waste from residues: EWC-code: 20 01 13

Contaminated: Dispose of contaminated packings as residue.

14. TRANSPORT INFORMATION

UN-number:	1247	Proper shipping name:	Methyl methacrylate, monomer, stabilized,
Sea (IMDG):	Class: 3.3	PG: II	MP: No
	EmS: 3-07	MFAG: Subsection 4.2	
Land (RID/ADR):	Class: 3	Item: 3	Letter: b
Air (ICAO/IATA):	Class: 3	PG: II	

15. REGULATORY INFORMATION

Labelling:



16. OTHER INFORMATION

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