

SAFETY DATA SHEET



Crosslinker

1. Identification of the substance/preparation and of the company/undertaking

Product Name and/or Code : **Crosslinker**
Manufacturer : BonaKemi AB
Box 210 74
SE-200 21 MALMÖ
SWEDEN
+46-(0)40-38 55 00
Product Use : Hardener

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC Number	Classification
1-Aziridinepropanoic acid, 2-methyl-, 2-ethyl-2-[[3-(2-methyl-1-aziridinyl)-1-oxopropoxy]methyl ester See Section 16 for the full text of the R Phrases declared above	64265-57-2	25-50	264-763-3	Carc. Cat. 3; R40 Xi; R38, 41 R43

* Occupational Exposure Limit(s), if available, are listed in Section 8

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Carc. Cat. 3; R40
Xi; R38, 41
R43

4. First aid measures

First-Aid measures

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Eye Contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

- Extinguishing Media** : Recommended: alcohol resistant foam, CO₂, powders, water spray.
Not to be used : waterjet.
- Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

6. Accidental release measures

- Personal Precautions** : Due to the organic solvents content of the preparation:
Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

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7. Handling and storage

- Handling** : Due to the organic solvents content of the preparation:
- Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
- In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
- Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Put on appropriate personal protective equipment (see Section 8).
- Never use pressure to empty : container is not a pressure vessel. Always keep in containers of same material as the original one.
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep away from heat and direct sunlight.
- Due to the organic solvents content of the preparation:
Keep away from: OXIDISING AGENTS, strong alkalis, strong acids.
No smoking. Prevent unauthorised access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Do not empty into drains..

8. Exposure controls/personal protection

- Engineering measures** : Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.
- Occupational Exposure Limits** : Not available.
- Personal protective equipment**
- Respiratory system** : If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.
- Skin and body** : Personnel should wear protective clothing.
- Hands** : For prolonged or repeated handling, use gloves: nitrile, neoprene, latex rubber.
- Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.
- Eyes** : Use safety eyewear designed to protect against splash of liquids.
- Environmental exposure control**
Do not allow to enter drains or watercourses.

9. Physical and chemical properties

- Physical state** : Liquid.
- Odour** : Not available.
- Colour** : Clear. Yellowish.
- Flash point** : Closed cup: >100°C (212°F). (Setaflash.)
- pH** : Not available.
- Specific gravity** : 1.04 (Water = 1)
- Solubility** : Soluble in cold water, hot water.

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous Decomposition Products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials in order to avoid strong exothermic reactions: OXIDISING AGENTS, strong alkalis, strong acids.

11. Toxicological information

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details.

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

Contains (1-Aziridinepropanoic acid, 2-methyl-, 2-ethyl-2-[[3-(2-methyl-1-aziridiny)-1-oxopropoxy]methyl]-1,3-propanediyl ester). May produce an allergic reaction.

12. Ecological information

There are no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

13. Disposal considerations

Do not allow to enter drains or watercourses.
Dispose of according to all federal, state and local applicable regulations.

European Waste Catalogue (EWC) : 08 01 11

Hazardous Waste : The classification of the product may meet the criteria for a hazardous waste

14. Transport information

Land - Road/Railway

UN number : Not regulated.

Sea

UN number : Not regulated.

Marine pollutant : No.

Air

UN number : Not regulated.

Inland waterways

UN number : Not regulated.

15. Regulatory information

EU Regulations : The product is labelled as follows, in accordance with local regulations:

Hazard symbol(s) :



Harmful

Crosslinker

- Risk Phrases** : R40- Limited evidence of a carcinogenic effect.
R38- Irritating to skin.
R41- Risk of serious damage to eyes.
R43- May cause sensitisation by skin contact.
- Safety Phrases** : S2- Keep out of the reach of children.
S24- Avoid contact with skin.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28- After contact with skin, wash immediately with plenty of water.
S37/39- Wear suitable gloves and eye/face protection.
S46- If swallowed, seek medical advice immediately and show this container or label.
S60- This material and its container must be disposed of as hazardous waste.
- Contains** : 1-Aziridinepropanoic acid, 2-methyl-,
2-ethyl-2-[[3-(2-methyl-1-aziridinyl)-1-oxopropoxy]methyl]-1,3-propanediyl ester

Other EU regulations

- Tactile warning of danger** : Yes, applicable.
EC Statistical Classification (Tariff Code) : 32089091

16. Other information

- CEPE Classification** : 2
Full text of R phrases referred to in Sections 2 and 3 - Europe : R40- Limited evidence of a carcinogenic effect.
R38- Irritating to skin.
R41- Risk of serious damage to eyes.
R43- May cause sensitisation by skin contact.

- Date of issue** : 2005-07-11.

Notice to Reader

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product : it is not to be considered as a guarantee of the products properties.

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