

# SAFETY DATA SHEET



## Crosslinker

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

**Product Name and/or Code** : **Crosslinker**  
**Manufacturer** : BonaKemi Limited  
1 Radian Court  
Davy Avenue  
Knowlhill  
Milton Keynes  
MK5 8PJ  
England  
Tel. 01908-399 740  
**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-aziridiny)-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 irregular breathing, or 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 recognized 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 this container or label. Keep person warm and at rest. Do not induce vomiting.

### 5. Fire-fighting measures

**Extinguishing Media** : Recommended: alcohol resistant foam, CO<sub>2</sub>, 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 vapor 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 sewers, inform the appropriate authorities in accordance with local regulations.

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

## 7. Handling and storage

- Handling** : Due to the organic solvents content of the preparation:
- Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.
- In addition, the product should be used only 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 made from the 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: OXIDIZING AGENTS, strong alkalis, strong acids.  
No smoking. Prevent unauthorized access. Containers that 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 vapors 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, but should 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

<b>Physical state</b>	: Liquid.
<b>Odor</b>	: Not available.
<b>Color</b>	: Clear. Yellowish.
<b>Flash point</b>	: Closed cup: >100°C (212°F). (Setaflash.)
<b>pH</b>	: Not available.
<b>Specific gravity</b>	: 1.04 (Water = 1)
<b>Solubility</b>	: 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 to prevent strong exothermic reactions: OXIDIZING AGENTS, strong alkalis, strong acids.

## 11. Toxicological information

There is 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 solvent vapor concentrations 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 the kidneys, liver and central nervous system. Symptoms and signs include headaches, 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. If splashed in the eyes, the liquid may cause irritation and reversible damage.

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

## 12. Ecological information

There is 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

**Risk Phrases** :

R40- Limited evidence of a carcinogenic effect.  
R38- Irritating to skin.  
R41- Risk of serious damage to eyes.  
R43- May cause sensitization 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

### National regulations

## 16. Other information

**CEPE Classification** : 2

**Full text of R phrases referred to in Sections 2 and 3 - United Kingdom (UK)** : R40- Limited evidence of a carcinogenic effect.  
R38- Irritating to skin.  
R41- Risk of serious damage to eyes.  
R43- May cause sensitization by skin contact.

**Date of issue** : 2005-07-27.

### Notice to Reader

*The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It always is the responsibility of the user to take all necessary steps to fulfill the demands set out 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 a guarantee of the product's properties.*

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