

# SAFETY DATA SHEET



## Retarder

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

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

### 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
Ethanol, 2-(2-ethoxyethoxy)- See Section 16 for the full text of the R Phrases declared above	111-90-0	2.5-10	203-91-97	Xi; R36

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

### 3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

### 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** : 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**
- : Keep container tightly closed.
- Avoid contact with skin and eyes. Avoid inhalation of vapors and spray mist.
- 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. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- 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**
- : Not applicable.
- Hands**
- : For prolonged or repeated handling, use gloves: nitrile.
- 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

- Physical state**
- : Liquid.
- Odor**
- : Not available.
- Color**
- : Clear.
- Flash point**
- : Not available.
- pH**
- : Not available.
- Specific gravity**
- : 1 (Water = 1)
- Solubility**
- : Partially 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.

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.

## 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 12

**Hazardous Waste** : To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

## 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** : This preparation is not classified as dangerous according to the EC Directive 88/379/EEC.

**Risk Phrases** : This product is not classified according to the EU regulations.

**Additional Warning Phrases** : Safety Data Sheet available for professional user on request.

**EC Statistical Classification (Tariff Code)** : 32089091

## 16. Other information

**CEPE Classification** : 8

**Full text of R phrases referred to in Sections 2 and 3 - Europe** : R36- Irritating to eyes.

**Date of issue** : 2006-01-25.

### 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.*

