



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**AkzoNobel**  
Tomorrow's Answers Today

## BERMOCOLL EBS 431 FQ

Version 1

Revision Date 19.05.2009

Print Date 19.05.2009

GB / EN

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

Trade name : BERMOCOLL EBS 431 FQ  
Use of the Substance/Preparation : Rheological modification Water retention and stability

Company : Akzo Nobel Functional Chemicals AB  
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### 2. HAZARDS IDENTIFICATION

#### Risk advice to man and the environment

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

#### Additional risk and advice

Risk of dust explosion.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Remarks : No dangerous ingredients according to Directive 67/548/EEC.

### Non-hazardous substance

Chemical Name	CAS-No.	EC-No. / REACH Reg.-No.	Concentration [%]
Ethylhydroxyethyl cellulose	9004-58-4		60 - 100

## 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.

Inhalation : Remove to fresh air.  
Keep patient warm and at rest.  
Rinse nose and mouth with water.

Skin contact : Remove contaminated clothing.  
Rinse with water.

Eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.  
Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must

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be disposed of in accordance with local regulations.

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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : For personal protection see section 8.  
Avoid dust formation.
- Environmental precautions : Try to prevent the material from entering drains or water courses.  
No special environmental precautions required.
- Methods for cleaning up : Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

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## 7. HANDLING AND STORAGE

### Handling

- Advice on safe handling : For personal protection see section 8.  
No special handling advice required.  
Avoid creating dust.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.  
No sparking tools should be used.
- Dust explosion class : St1

### Storage

- Requirements for storage areas and containers : Keep in a dry place.  
Store at room temperature in the original container.  
Keep container tightly closed.
- Advice on common storage : No special restrictions on storage with other products.
- Other data : No decomposition if stored and applied as directed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure
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Components	CAS-No.	Value	Control	Update	Basis	Form of
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			parameters			exposure
Dust		TWA	4 mg/m <sup>3</sup>	1997-01-01	GB EH40	Total dust

STEL: Short term exposure limit  
TWA: Time Weighted Average (TWA)

## Engineering Controls

Provide appropriate exhaust ventilation at places where dust is formed.

## Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.  
In the case of dust or aerosol formation use respirator with an approved filter.  
Half mask with a particle filter P2 (EN 143).
- Hand protection : Glove material: For prolonged or repeated contact use protective gloves.  
Protective gloves complying with EN 374.
- Eye protection : Safety glasses
- Hygiene measures : General industrial hygiene practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

- Form : powder
- Colour : white
- Odour : odourless

### Safety data

- Flash point : not applicable
- Ignition temperature : 420 °C
- Lower explosion limit : 30 g/m<sup>3</sup>
- Upper explosion limit : not determined
- Minimum ignition energy : > 10 mJ
- Autoignition temperature : 120 °C
- Burning number : 5

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pH	:	5 - 8 at 0,5 % solution
Melting point/range	:	not applicable
Boiling point/boiling range	:	not applicable
Water solubility	:	Soluble, gel formation.
Viscosity, dynamic	:	1 700 - 2 400 mPa.s at 20 °C pH 7 at 1% solution.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Hazardous decomposition products	:	No hazardous decomposition products are known.
Thermal decomposition	:	Avoid elevated temperatures. At temperatures above ~100 °C the product will slowly decompose and dissolving qualities are impaired. At temperatures above 200 °C charring of the product will occur.
Hazardous reactions	:	Dust may form explosive mixture in air.  : Stable under normal conditions.

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## 11. TOXICOLOGICAL INFORMATION

### Product information

Inhalation	:	Product dust may be irritating to eyes, skin and respiratory system.
Skin	:	Product dust may be irritating to eyes, skin and respiratory system.
Eyes	:	Product dust may be irritating to eyes, skin and respiratory system.
Ingestion	:	Not irritating.

### Test result

Acute oral toxicity	:	LD50 rats Dose: > 10 000 mg/kg
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Irritation : Mildly irritating.  
Sensitisation : Not sensitizing.  
Method: (Magnusson-Kligman):

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## 12. ECOLOGICAL INFORMATION

### Product information

Ecotoxicity effects : The product does not contain any substance(s) considered as harmful or toxic to aquatic organisms  
Biodegradability : Not readily biodegradable.

### Test result

Toxicity to fish : LC50  
Species: fish  
Dose: > 100 mg/l  
Exposure time: 96 h

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## 13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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## 14. TRANSPORT INFORMATION

### ADR

Not dangerous goods

### IATA

Not dangerous goods

### IMDG\_EU

Not dangerous goods

### RID

Not dangerous goods

Not classified as dangerous in the meaning of transport regulations.

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## 15. REGULATORY INFORMATION

### Labelling according to EC Directives 1999/45/EC

Further information : The product does not need to be labelled in accordance with EC directives or respective national laws.

### Other regulations

Major Accident Hazard Legislation : 96/82/EC Update: 2003  
Directive 96/82/EC does not apply

Water contaminating class (Germany) : WGK 1 slightly water endangering

### Notification status

EINECS : y (positive listing)  
On the inventory, or in compliance with the inventory

TSCA : y (positive listing)  
On TSCA Inventory

AICS : y (positive listing)  
On the inventory, or in compliance with the inventory

DSL : y (positive listing)  
All components of this product are on the Canadian DSL list.

ENCS : y (positive listing)  
On the inventory, or in compliance with the inventory

KECI : y (positive listing)  
On the inventory, or in compliance with the inventory

PICCS : y (positive listing)  
On the inventory, or in compliance with the inventory

IECSC : y (positive listing)  
On the inventory, or in compliance with the inventory

: y (positive listing)  
On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

Further information : This product is to be considered as a preparation according to EU-legislation.

## 16. OTHER INFORMATION

PBT: Persistent, bioaccumulative and toxic according to 1907/2006/EC, Annex XIII. vPvB: Very persistent and very bioaccumulative according to 1907/2006/EC, Annex XIII. OEL: Occupational exposure limit Note: The above information is only given for substances that does not meet the classification criteria.

### Notification status explanation

EINECS	European Inventory of Existing Commercial Chemical Substances (EINECS)
TSCA	TSCA Inventory
AICS	Australia Inventory of Chemical Substances (AICS)
DSL	Domestic Substances List (DSL)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC) Industrial Safety and Health Law OEL

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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