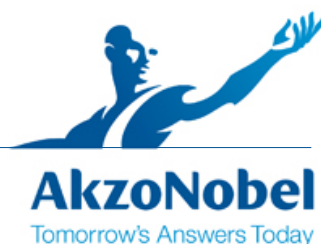


SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



BERMOCOLL EBM 8000

Version 1 Revision Date 10.03.2011 Print Date 10.03.2011 GB / EN

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : BERMOCOLL EBM 8000

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Specific use(s): Rheological modification

1.3 Details of the supplier of the safety data sheet

Company : Akzo Nobel Functional Chemicals AB
SE 444 85 Stenungsund
Sweden

Telephone : +4630385000
Telefax :
E-mail address : Regulatory.AffairsSE@akzonobel.com

1.4 Emergency telephone number

Emergency telephone number : +31 570679211 (Fax. +31 570679801)
Akzo Nobel Chemicals, Deventer, NL
China: 0532 83889090

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Risk advice to man and the environment

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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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.

2.3 Other hazards

Risk of dust explosion.

PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

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

Candidate List of Substances of Very High Concern for Authorisation

Candidate List of Substances of Very High Concern for Authorisation : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Non-hazardous substance

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
: No hazards which require special first aid measures.
- If inhaled : Remove to fresh air.
Keep patient warm and at rest.
Rinse nose and mouth with water.
- In case of skin contact : Remove contaminated clothing.
Rinse with water.
- In case of eye contact : Rinse with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No information available.

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5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting / Specific hazards arising from the chemical : 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.

5.3 Advice for firefighters

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 be disposed of in accordance with local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.
No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment : Sweep up and shovel.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Additional advice : For personal protection see section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
No special handling advice required.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Avoid creating dust.

Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.

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No sparking tools should be used.

Dust explosion class : St1

7.2 Conditions for safe storage, including any incompatibilities

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.

7.3 Specific end uses

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

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

STEL: Short term exposure limit

TWA: Time Weighted Average (TWA)

8.2 Exposure controls

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 : For prolonged or repeated contact use protective gloves.
Protective gloves complying with EN 374.

Eye protection : Safety glasses

Hygiene measures : General industrial hygiene practice.

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form	: powder
Colour	: Whitish.
Odour	: odourless
Odour Threshold	: no data available

Safety data

pH	: 6.5 at 1 % solution
Melting point	: not applicable
Boiling point	: not applicable
Flash point	: not applicable
Ignition temperature	: 420 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Lower explosion limit	: 30 g/m ³
Upper explosion limit	: not determined
Vapour pressure	: not applicable
Relative vapour density	: not applicable
Relative density	: no data available
Solubility in other solvents	: no data available
Water solubility	: Soluble, gel formation.
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: 120 °C
Decomposition temperature	: no data available
Viscosity, dynamic	: 7,000 - 9,000 mPa.s pH 7 at 1% solution.
Viscosity, kinematic	: no data available
Explosive properties	: Not explosive

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Minimum ignition energy : > 10 mJ
Oxidizing properties : Not classified as oxidizing.

9.2 Other information

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

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Chemical stability and Hazardous reactions : Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.
Thermal decomposition : no data available

11. TOXICOLOGICAL INFORMATION

Product information:

Hazard Summary

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.

Toxicology Assessment

Further information : No further data available.

11.1 Information on toxicological effects

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Test result

Acute oral toxicity : LD50: > 2,000 mg/kg
Species: rats
The value is estimated from tests on similar products.

12. ECOLOGICAL INFORMATION

Product information:

Ecotoxicology Assessment

Results of PBT assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Additional ecological information : The product does not contain any substance(s) considered as harmful or toxic to aquatic organisms

None known.

12.1 Toxicity

12.2 Persistence and degradability

Product information:

Biodegradability : Not readily biodegradable.

12.3 Bioaccumulative potential

Product information:

Bioaccumulation : Bioaccumulation is unlikely.

12.4 Mobility in soil

Product information:

Mobility : no data available

12.5 Results of PBT and vPvB assessment

Product information:

PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product information:

Biochemical Oxygen Demand (BOD) : no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contaminated packaging : Empty remaining contents.
Empty containers should be taken to local recyclers for disposal.

: Empty remaining contents.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

CH INV : n (Negative listing)
The mixture contains a polymer. The monomers for this polymer have been notified.

US.TSCA : y (positive listing)
All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

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

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

NZIoC : n (Negative listing)
On the inventory, or in compliance with the inventory

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ENCS	: y (positive listing) On the inventory, or in compliance with the inventory
ISHL	: n (Negative listing) Not 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

For explanation of abbreviation see section 16.

15.2 Chemical Safety Assessment

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Explanations for possible abbreviations mentioned in section 2

PBT	: PBT: Persistent, bioaccumulative and toxic.
vPvB	: vPvB: Very persistent and very bioaccumulative.
OEL	: OEL: Occupational exposure limit.

Notification status explanation

EINECS	European Inventory of Existing Commercial Chemical Substances (EINECS)
CH INV	Switzerland. New notified substances and declared preparations
US.TSCA	United States TSCA Inventory
DSL	Canadian Domestic Substances List (DSL)
AICS	Australia Inventory of Chemical Substances (AICS)
NZIoC	New Zealand. Inventory of Chemical Substances
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances (METI)
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC	China. Inventory of Existing Chemical Substances in China (IECSC)

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