

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

BERMOCOLL E 230 X

Version 3

Revision Date 19.06.2014

Print Date 29.06.2015

GB / EN

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name : BERMOCOLL E 230 X

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

Use of the Substance/Mixture	: Specific use(s):	Rheological modification Water retention and stability
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1.3 Details of the supplier of the safety data sheet

Company	: Akzo Nobel Functional Chemicals AB Stenunge Allé 3 SE 444 85 Stenungsund Sweden
Telephone	: +4630385000
Telefax	: +46303771257
E-mail address	: RegulatoryAffairs@akzonobel.com

1.4 Emergency telephone number

Emergency telephone number : AkzoNobel: +31 57 06 79211

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

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Risk of dust explosion.
No further data available.

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

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: not applicable

Non-hazardous substance

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

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

General advice : 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.

SECTION 5: FIREFIGHTING 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 firefighting / Specific hazards arising from the chemical : Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up / Methods for containment : Use an electrically protected vacuum cleaner.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Additional advice : For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Avoid creating dust.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid spillage on floor as the product can become very slippery when wet.

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

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.

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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 use(s)

Specific use(s) : No information available.

SECTION 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

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, vapour or aerosol formation use a 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 : No special environmental precautions required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form : powder

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Colour	: off-white
Odour	: odourless
Odour Threshold	: No data available

Safety data

pH	: 5.5 - 8 at 0.5 % solution
Melting point/range	: No data available
Boiling point/boiling range	: not applicable
Flash point	: not applicable
Ignition temperature	: 420 °C Method: EN 50281-2-1
Evaporation rate	: not applicable
Flammability (solid, gas)	: No data available
Lower explosion limit	: 30 g/m ³
Upper explosion limit	: No data available
Vapour pressure	: not applicable
Relative vapour density	: not applicable
Relative density	: No data available
Water solubility	: Soluble, gel formation.
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 120 °C Method: EN 15188
Burning number	: 5
Decomposition temperature	: > 100 °C 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.
Viscosity, dynamic	: 260 - 360 mPa.s at 20 °C pH 7 at 2 % solution.
Viscosity, kinematic	: No data available
Dust explosion class	: St1

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Explosive properties	: No data available
Minimum ignition energy	: > 10 mJ
Oxidizing properties	: The substance or mixture is 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.

SECTION 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

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition.
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10.5 Incompatible materials

Materials to avoid	: None known.
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10.6 Hazardous decomposition products

Hazardous decomposition products	: No hazardous decomposition products are known.
Thermal decomposition	: > 100 °C 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.

SECTION 11: TOXICOLOGICAL INFORMATION

Product information:

Hazard Summary

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

Toxicology Assessment

Further information	: No further data available.
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11.1 Information on toxicological effects

Test result

Acute oral toxicity : LD50: > 5,000 mg/kg
Species: rat
Read-across (Analogy)

SECTION 12: ECOLOGICAL INFORMATION**Product information:****Ecotoxicology Assessment**

Additional ecological information : None known.

12.1 Toxicity**Test result**

Toxicity to fish : LC50: > 100 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Read-across (Analogy)

12.2 Persistence and degradability**Product information:**

Biodegradability : Result: Not readily biodegradable.

Components : No information available.

12.3 Bioaccumulative potential**Product information:**

Bioaccumulation : Bioaccumulation is unlikely.

Components : No information available.

12.4 Mobility in soil**Product information:**

Mobility : No data available

Components : No information available.

12.5 Results of PBT and vPvB assessment**Product information:**

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components : No information available.

12.6 Other adverse effects**Product information:**

Biochemical Oxygen Demand (BOD) : No data available

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Components : No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 Proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

Major Accident Hazard : 96/82/EC
Legislation not applicable

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

Notification status

CH INV : YES. The mixture contains a polymer. The monomers for this polymer have been notified.
TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.
DSL : YES. All components of this product are on the Canadian DSL.
AICS : YES. On the inventory, or in compliance with the inventory
NZIoC : YES. On the inventory, or in compliance with the inventory
ENCS : YES. On the inventory, or in compliance with the inventory
ISHL : YES. On the inventory, or in compliance with the inventory
KECI : YES. On the inventory, or in compliance with the inventory
PICCS : YES. On the inventory, or in compliance with the inventory

IECSC : YES. 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.

15.2 Chemical Safety Assessment

Product information : not required

SECTION 16: OTHER INFORMATION

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

CH INV	Switzerland. New notified substances and declared preparations
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)

Further information

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