

SAFETY DATA SHEET

according to the Global Harmonized System and GB standard

BERMOCOLL E230X

Version 2

Revision Date 25.03.2011

Print Date 18.05.2015

CN / EN

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Information

Trade name : BERMOCOLL E230X

Use of the Substance/Mixture : Specific use(s): Rheological modification
Water retention and stability

Company : AKZO NOBEL CHEMICALS
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2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

Other hazards which do not result in classification

Risk of dust explosion.
No further data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

Hazardous substance

Chemical Name	CAS-No.	Classification	Concentration [%]
Sodium chloride	7647-14-5	Acute Tox. 5; H303	>= 1 - < 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

Non-hazardous substance

Chemical Name	CAS-No.	Concentration [%]
Methylethylhydroxyethyl cellulose	9032-42-2	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.

Notes to physician

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

5. FIREFIGHTING MEASURES

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

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

Further information : Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid dust formation.

Environmental precautions : No special environmental precautions required.

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

Additional advice : For personal protection see section 8.

7. HANDLING AND STORAGE

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 : St2

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Dust		TWA	4 mg/m3		GBZ 2.1-2007	Total dust
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STEL: Short term exposure limit

TWA: Time Weighted Average

Appropriate 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 :
Protective gloves complying with EN 374.

Eye/face protection : Safety glasses

Hygiene measures : General industrial hygiene practice.

Environmental exposure controls

General advice : No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

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

Safety data

pH : 6 - 8 at 0.5 % solution
Melting point/range : No data available
Boiling point/boiling range : not applicable
Flash point : not applicable
Ignition temperature : 400 °C
Method: EN 50281-2-1
Evaporation rate : not applicable
Flammability (solid, gas) : No data available
Lower explosion limit : 30 g/m³
Upper explosion limit : No data available
Vapour pressure : not applicable
Relative vapour density : not applicable
Relative density : No data available

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Water solubility	: Soluble, gel formation.
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 170 °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	: 6,000 - 9,000 mPa.s at 20 °C pH 7 at 1% solution.
Viscosity, kinematic	: No data available
Dust explosion class	: St2
Explosive properties	: No data available
Minimum ignition energy	: > 10 mJ
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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

10. STABILITY AND REACTIVITY

Conditions to avoid	: Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid	: None known.
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.
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Dust may form explosive mixture in air.

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.

Test result

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

TOXICOLOGY DATA FOR THE COMPONENTS:

Test result

Component: Sodium chloride

- Acute oral toxicity : LD50: 3,000 mg/kg
Species: rat

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

- Additional ecological information : None known.

Test result

Ecotoxicity effects

- 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)

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Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Result: Not readily biodegradable.

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

COMPONENTS:

Test result

Component: Sodium chloride

Ecotoxicity effects

Toxicity to daphnia and other aquatic invertebrates : EC50: 1,000 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Bioaccumulation : not applicable

Mobility : Medium: Soil
No data available

Biodegradability : Result: No data available

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

International regulation

IATA-DGR

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Further information for transport

Not classified as dangerous in the meaning of transport regulations.

National Regulations

Not regulated as a dangerous good

15. REGULATORY INFORMATION

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

Law on Prevention and Control of Environment Pollution by Solid Waste

National regulatory information

16. OTHER INFORMATION

Full text of H-Statements

H303 : May be harmful if swallowed.

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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