

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

BERMOCOLL CCA 612

Version 2

Revision Date 30.09.2011

Print Date 13.10.2011

GB / EN

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

1.1 Product identifier

Trade name

: BERMOCOLL CCA 612

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

Use of the

: Specific use(s):

Rheological modification

Substance/Mixture

Water retention and stability

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

efax

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.

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

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)

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

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 : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

of Very High Concern for

Authorisation

Non-hazardous substance

| Chemical Name | CAS-No. EC-No. REACH No. | Concentration [%] | |
|-----------------------------|--------------------------------|-------------------|--|
| Ethylhydroxyethyl cellulose | 9004-58-4 | 80 - 100 | |

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.

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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

: 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

for firefighters

Further information

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

: 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

: Do not flush into surface water or sanitary sewer system.

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.

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/sparks/open flames/hot surfaces. - No

smoking.

Dispose of rinse water in accordance with local and national

regulations.

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.

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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

: Keep in a dry place.

areas and containers

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

Specific use(s)

: No information available.

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/m3 | 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

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General advice

: Do not flush into surface water or sanitary sewer system.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Form

: powder

Colour

: off-white

Odour

: odourless

Odour Threshold

: no data available

Safety data

pН

: 6 - 9 at 0.5 % solution

Melting point/range

: no data available

Boiling point/boiling range

: not applicable

Flash point

: not applicable

Ignition temperature

: 420 °C

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

Solubility in other solvents

: no data available

Water solubility

: Soluble, gel formation.

Partition coefficient: n-

octanol/water

: no data available

Autoignition temperature

: 120 °C

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

5,500 - 7,500 mPa.s at 20 °C

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pH 7 at 1% solution.

Viscosity, kinematic

: no data available

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.

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

: Keep away from open flames, hot surfaces and sources of

ignition.

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

: > 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.

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.

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Ingestion

: Not irritating.

Toxicology Assessment

Further information

: No further data available.

11.1 Information on toxicological effects

Test result

Acute oral toxicity

: LD50: > 5,000 mg/kg

Species: rat

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

: None known.

12.1 Toxicity

Test result

Toxicity to fish

: LC50: > 100 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)
The value is estimated from tests on similar products.

Toxicity to daphnia and other

aquatic invertebrates.

: EC50: > 100 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

The value is estimated from tests on similar products.

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

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persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Product information:

Biochemical Oxygen

: no data available

Demand (BOD)

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.

14. TRANSPORT INFORMATION

14.1 UN number

ADR : Not dangerous goods RID : Not dangerous goods IMDG : Not dangerous goods IATA : Not dangerous goods

14.2 Proper shipping name

ADR : Not dangerous goods RID : Not dangerous goods IMDG : Not dangerous goods IATA : Not dangerous goods

14.3 Transport hazard class

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.4 Packing group

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.5 Environmental hazards

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.6 Special precautions for user

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

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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 2 water endangering

Notification status

CH INV

: y (positive 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

: y (positive listing)

On the inventory, or in compliance with the inventory

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.

Further information

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

15.2 Chemical Safety Assessment

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: not required

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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

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 ISHL Japan. ENCS - Existing and New Chemical Substances Inventory

KECI

Japan. ISHL - Inventory of Chemical Substances (METI) Korea. Korean Existing Chemicals Inventory (KECI)

PICCS

Philippines Inventory of Chemicals and Chemical Substances

3

(PICCS)

IECSC

China. Inventory of Existing Chemical Substances in China (IECSC)

Further information

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