

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

BERMOCOLL EM7000FQ

Version 5 Revision Date 03/29/2019 Print Date 03/03/2020 US / Z8

1. IDENTIFICATION

Product name : BERMOCOLL EM7000FQ

Product Use Description : Specific use(s): Rheological modification

Company : Nouryon Chemicals AG

Performance Additives Industriestrasse 17a Sempach Station 6203

CH

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2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	powder
Color	off-white
Odor	odorless
Hazard Summary	
	Risk of dust explosion.

GHS Classification

Combustible dust

GHS label elements

Signal Word : Warning

Hazard Statements : If small particles are generated during further processing,

handling or by other means, may form combustible dust

concentrations in air.

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

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OSHA		ponent of this product present at leve 0.1% is on OSHA's list of regulated of				
NTP	: No com equal to	 No component of this product present at levels greater than of equal to 0.1% is identified as a known or anticipated carcinogen by NTP. 				

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture No hazardous ingredients : Mixture

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 and shoes.

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. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during fire fighting / 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 : Carbon oxides

Special protective equipment

for fire-fighters

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

Further information : Standard procedure for chemical fires.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

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Emergency measures on

accidental release

: Follow safe handling advice and personal protective

equipment recommendations.

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.

Reference to other sections : For disposal considerations see section 13.

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/sparks/open flames/hot surfaces. 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

Exposure Guidelines

Components	CAS-No.	Value		Control parameters	Update	Basis	Form of exposure
Dust		TWA		50 Million particles per cubic foot	2011-07-01	OSHA Z-3	total dust
	Further information		a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1. mppcf X 35.3 = million particles per cubic meter = particles per c.c				
Dust		TWA		15 mg/m3	2011-07-01	OSHA Z-3	total dust
	Further information		d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table Z-1.				

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Dust		TWA		5 mg/m3	2011-07-01	OSHA Z-3	respirable fraction
	Further information	:	listed	l inert or nuisance dus d specifically by substa e as the Particulates N	ance name are co	vered by this lim	t, which is the
Dust		TWA		15 Million particles per cubic foot	2011-07-01	OSHA Z-3	respirable fraction
	Further information	:	a: Based on impinger samples counted by light-field techniques. d: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by this limit, which is the same as the Particulates Not Otherwise Regulated (PNOR) limit in Table 2. mppcf X 35.3 = million particles per cubic meter = particles per c.c				organic, not it, which is the imit in Table Z-

ACGIH: American Conference of Governmental Industrial Hygienists

BEI: Biological Exposure Index

MAC: Maximum Allowable Concentration

NIOSH: National Institute for Occupational Safety and Health

OEL: Occupational exposure limit.

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

Eye/face protection : Safety glasses

Hand protection : Glove material: For prolonged or repeated contact use

protective gloves.

: Glove material: Protective gloves complying with EN 374.

Respiratory protection : No personal respiratory protective equipment normally

required.

In the case of dust, vapor or aerosol formation use respirator

with an approved filter.

Half mask with a particle filter P2 (EN 143)

Hygiene measures : General industrial hygiene practice.

Environmental exposure controls

General advice : No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : powder

Color : off-white

Odor : odorless

Odor Threshold : No data available

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Safety data

pH : < 6.5 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) : Not classified as a flammability hazard

May form combustible dust concentrations in air during

processing, handling or other means.

Flammability (liquids) : Not applicable

Lower explosion limit : 30 g/m3

Upper explosion limit : No data available

Vapor pressure : Not applicable

Relative vapor 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

Autoignition 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.

Viscosity, dynamic : 6,000 - 8,000 mPa.s at 20 °C

pH 7 at 1% solution.

Viscosity, kinematic : No data available

Dust explosion class : St2

Dust deflagration index (Kst) : > 200 - 300 m.b_/s

Explosive properties : No data available

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Minimum ignition energy : > 10 mJ

Oxidizing properties : The substance or mixture is not classified as oxidizing.

This material 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.

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

Acute toxicity : Not classified based on available information.

Skin corrosion/irritation : Not classified based on available information.

Serious eye damage/eye

irritation

Not classified based on available information.

Respiratory or skin

sensitization

information.
Skin sensitization: Not classified based on available

Respiratory sensitization: Not classified based on available

information.

Germ cell mutagenicity : Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity : Not classified based on available information.

STOT-single exposure : Not classified based on available information.

STOT-repeated exposure : Not classified based on available information.

Aspiration hazard : Not classified based on available information.

Potential Health Effects

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Inhalation : Product dust may be irritating to respiratory system.

Skin : Product dust may be irritating to skin.

Eyes : Product dust may be irritating to eyes.

Ingestion : Not expected to be irritating.

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : No information available.

Toxicology Assessment

Further information : No further data available.

Test result

Acute oral toxicity : LD50: > 5,000 mg/kg

Species: Rat

Read-across (Analogy)

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

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)

Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

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Mobility : No data available

Biodegradability : Result: Not readily biodegradable.

Further information on ecology

Biochemical Oxygen : No data available

Demand (BOD)

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

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 Regulations

ADR

Not regulated as a dangerous good

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good

TDG

Not regulated as a dangerous good

NOM-002-SCT

Not regulated as a dangerous good

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15. REGULATORY INFORMATION

Notification status

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 : YES. On the inventory, or in compliance with the inventory **ENCS** ISHL YES. On the inventory, or in compliance with the inventory : YES. On the inventory, or in compliance with the inventory KECI **PICCS** YES. On the inventory, or in compliance with the inventory **IECSC** YES. On the inventory, or in compliance with the inventory YES. On the inventory, or in compliance with the inventory TCSI

TSCA : YES. All chemical substances in this product are either listed on the

TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviations, see section 16.

TSCA list

TSCA 5(a)(2) : No substances are subject to a Significant New Use Rule.
TSCA 12(b) : No substances are subject to TSCA 12(b) export notification

requirements.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Z8: This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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16. OTHER INFORMATION

Full text of other abbreviations

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3

Mineral Dusts

OSHA Z-3 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS -Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC -New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

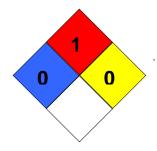
HMIS Classification : Health Hazard: 0

Chronic Health Hazard: /

Flammability: 2 Physical hazards: 0

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



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Notification status explanation

REACH 1907/2006 (EU)

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
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)

TCSI Taiwan Chemical Substance Inventory (TCSI)

TSCA United States TSCA Inventory

Further information

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The information in this material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the c ontext of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old,call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

The information provided in this Material 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.