# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard

# **BERMOCOLL E 230 FQ**

Version	Revision Date:	US / Z8	Date of last issue: 08/03/2023
5.2	11/23/2023		Date of first issue: 10/15/2014

#### **SECTION 1. IDENTIFICATION**

Product name	:	BERMOCOLL E 230 FQ			
Manufacturer or supplier's d	leta	ills			
Company name of supplier	:	Nouryon Functional Chemicals LLC Performance Additives			
Address	:	100 Matsonford Road, Building 1, Suite 500 Radnor PA 19087 US			
Telephone	:	(845) 276-8230			
Telefax	:	(845) 277-1404			
E-mail address	:	RegulatoryAffairs@nouryon.com			
Emergency telephone	:	24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424- 9300, CANUTEC-CANADA:1-613-996-6666<(>,<)>			
Recommended use of the chemical and restrictions on use					

Recommended use of the chemical and restrictions on us

Recommended use	:	Rheological modification
		Water retention and stability

## **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

g

Hazard Statements		If small particles are generated during further processing,
		handling or by other means, may form combustible dust
		concentrations in air.

#### Other hazards

Dust can form an explosive mixture in air.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

No hazardous ingredients

## **SECTION 4. FIRST AID MEASURES**

General advice

: No hazards which require special first aid measures.

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lf inha	aled		ent warm and at rest.			
In cas	In case of skin contact		Rinse nose and mouth with water. Remove contaminated clothing and shoes. Binse with water.			
In cas	In case of eye contact		Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.			
lf swa	If swallowed		Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.			
	important symptoms ffects, both acute and ed	: The symp	ions and effects are as expected from the hazards in section 2. No specific product related symptoms			
Notes	to physician		s which require special first aid measures. ptomatically.			
SECTION	5. FIRE-FIGHTING ME	ASURES				

# Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Specific hazards during fire fighting Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. Hazardous combustion products Carbon oxides Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Avoid dust formation. Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorized persons entering the zone.
Environmental precautions	:	No special environmental precautions required.
Methods and materials for containment and cleaning up	:	Use an electrically protected vacuum cleaner. Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

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	Advice on protection aga ire and explosion	is for	de appropriate exhaust ventilation at places where dust med. parking tools should be used.
Д	Advice on safe handling	Avoio Keep smok Avoio	ersonal protection see section 8. d creating dust. e away from heat/ sparks/ open flames/ hot surfaces. No king. d spillage on floor as the product can become very ery when wet.
C	Conditions for safe stora	Store	in a dry place. at room temperature in the original container. container tightly closed.
Ν	Materials to avoid		pecial restrictions on storage with other products.
	Further information on st age stability	or- : No de	ecomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m3 Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m3 Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and par- ticulates	10 mg/m3 Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL
	5 mg/m3 Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL
Contains no substances with oc	cupational exposure limit values.
Engineering measures :	Provide appropriate exhaust ventilation at places where dust is formed.

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	Personal protective equipme	ent		
	Respiratory protection	:	No personal respi required.	ratory protective equipment normally
			In the case of dus with an approved	
	Hand protection		Haif mask with a p	particle filter P2 (EN 143)
	Material	:	For prolonged or I	repeated contact use protective gloves.
	Eye protection Hygiene measures	:	Safety glasses General industrial	hygiene practice.
SEC	TION 9. PHYSICAL AND CHE	EMIC		3
	Appearance	:	powder	
	Color	:	off-white	
	Odor	:	odorless	
	Odor Threshold	:	No data available	9
	pH	:	< 6.5 Concentration: 0.	.5 %
	Melting point/range	:	No data available	9
	Boiling point/boiling range	:	Not applicable	
	Flash point	:	Not applicable	
	Evaporation rate	:	Not applicable	
	Flammability (solid, gas)	:	Combustible Soli	ds
			May form combu ssing, handling o	stible dust concentrations in air during proce- r other means.
	Flammability (liquids)	:	Not applicable	
	Burning number	:	5	
	Upper explosion limit / Upper flammability limit	:	No data available	9
	Lower explosion limit / Lower flammability limit	:	30 g/m3	
	Vapor pressure	:	Not applicable	

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	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	)
	Solubili Wat	ty(ies) er solubility	:	Soluble, gel form	ation.
	Solu	bility in other solvents	:	No data available	)
		n coefficient: n-	:	No data available	9
	octanol, Autoign	water ition temperature	:	> 788 °F / > 420 Method: Auto-ign 2-1	°C ition of a dust cloud according to EN 50281-
				> 842 °F / > 450 Method: Auto-ign 50281-2-1	°C ition of a 5mm dust layer according to EN
				248 °F / 120 °C Method: EN 1518	38
	Decom	position temperature	:		°C emperatures. At temperatures above ~100 °C lowly decompose and dissolving qualities are
	Viscosi Visc	ty osity, dynamic	:	260 - 360 mPa.s pH 7 at 2 % solut	
	Visc	osity, kinematic	:	No data available	)
	Explosi	ve properties	:	No data available	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Dust de	eflagration index (Kst)	:	< 200 m.b_/s	
	Dust ex	plosion class	:	St1	
	Minimu	m ignition energy	:	> 10 mJ	

# SECTION 10. STABILITY AND REACTIVITY

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C Po	eactivity hemical stability ossibility of hazardous reac- ons	: :		mal conditions. ommended storage conditions. cplosive mixture in air.
C	onditions to avoid		Keep away from ignition.	open flames, hot surfaces and sources of
In	compatible materials	: 1	None known.	
	azardous decomposition oducts	:	No hazardous de	composition products are known.
Τ <sup>΄</sup>	nermal decomposition	1		emperatures. At temperatures above ~100 °C lowly decompose and dissolving qualities are

## SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

## Product:

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

## Skin corrosion/irritation

Not classified due to lack of data.

#### Serious eye damage/eye irritation

Not classified due to lack of data.

#### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

## Germ cell mutagenicity

Not classified due to lack of data.

#### Carcinogenicity

Not classified due to lack of data.

- **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.

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NTP	<b>NTP</b> No ingredient of this product pre identified as a known or anticipa			at levels greater than or equal to 0.1% is carcinogen by NTP.	
-	oductive toxicity assified due to lack of da	ata.			
	STOT-single exposure Not classified due to lack of data.				
	STOT-repeated exposure Not classified due to lack of data.				
-	Aspiration toxicity Not classified due to lack of data.				
Furth	er information				
-	Product: Remarks : No further data available.				
<u>Produ</u>	<b>u<u>ct:</u></b> ty to fish	:	LC50 (Oncorhync Exposure time: 96 Remarks: Read-a		
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l s h	
			Remarks: Read-a	cross (Analogy)	
Persis	stence and degradabili	ty			
	Product: Biodegradability : Result: Not readily biodegradable.		v biodegradable.		
	emical Oxygen De- (BOD)	Dxygen De- : Remarks: No data available			
Bioac	cumulative potential				
<b>Produ</b> Bioace	<u>uct:</u> cumulation	:	Remarks: Bioaccu	imulation is unlikely.	

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Mobi	lity in soil				
Prod	uct:				
Mobil	Mobility		Remarks: No data available		
Othe	r adverse effects				
Produ	uct:				
Ozon	e-Depletion Potential	tection of Substanc Remarks tured with	n: 40 CFR Protection of Environment; Part 82 Pro- Stratospheric Ozone - CAA Section 602 Class I es This product neither contains, nor was manufac- a Class I or Class II ODS as defined by the U.S. Act Section 602 (40 CFR 82, Subpt. A, App.A + B).		
Additi matio	ional ecological infor- n	: None known.			
ECTION	13. DISPOSAL CONS	IDERATIONS			
Dispo	osal methods				
Conta	Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved w handling site for recycling or disposal.		ntainers should be taken to an approved waste		
ECTION	14. TRANSPORT INFO	ORMATION			
Interr	national Regulations				
UNR	-	s good			
1.4 T A	DOD				

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.

#### **Domestic regulation**

#### 49 CFR

Not regulated as a dangerous good Reportable Quantity : This product does not contain an environmentally hazardous substance per 49 CFR 172.101, Appendix A.

#### Special precautions for user

Remarks

: Not classified as dangerous in the meaning of transport regu-

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lations.

## SECTION 15. REGULATORY INFORMATION

## **CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust
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 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).

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

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

This product does not contain any priority pollutants related to the U.S. Clean Water Act

#### Maine Chemicals of High Concern

This product does not contain any chemicals that are listed as Maine Chemicals of High Concern.

#### California Prop. 65

WARNING: This product can expose you to chemicals including Ethylene glycol, 2-Methoxyethanol, 2-Ethoxyethanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

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TSCA		: All substa	ances listed as active on the TSCA inventory
AIIC		: On the in	ventory, or in compliance with the inventory
DSL		: All comp	onents of this product are on the Canadian DSL
ENCS		: On the in	ventory, or in compliance with the inventory
ISHL		: On the in	ventory, or in compliance with the inventory
KECI		: On the in	ventory, or in compliance with the inventory
PICCS	3	: On the in	ventory, or in compliance with the inventory
IECSC	;	: On the in	ventory, or in compliance with the inventory
NZIoC		: On the in	ventory, or in compliance with the inventory
TECI		: On the in	ventory, or in compliance with the inventory

## **TSCA** list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## SECTION 16. OTHER INFORMATION

# Further information

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NFPA	704:		HMIS® IV:		
	Flammability		HEALTH	/	0
			FLAMMABILITY		2
Healt		Instability	PHYSICAL HAZARD		0
	Special hazar	d	HMIS® ratings are based on a scale, with 0 representing min ards or risks, and 4 representi cant hazards or risks. The "*" a chronic hazard, while the "/" the absence of a chronic haza	nimal h ing sig repres ' repre	naz- gnifi- sents

## Full text of other abbreviations

CAL PEL

CAL PEL / PEL OSHA Z-3

- : California permissible exposure limits for chemical contaminants (Title 8, Article 107)
  - Permissible exposure limit
- : USA. Occupational Exposure Limits (OSHA) Table Z-3 Mineral Dusts

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of

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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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; 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

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: 11/23/2023

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

The information provided in this 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.

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