

SAFETY DATA SHEET

according to the Hazardous Products Regulations

BERMOCOLL EM 7000 FQ

Version 4.4 Revision Date: 2023/12/07 CA / EN Date of last issue: 2019/03/29
Date of first issue: 2014/06/18

SECTION 1. IDENTIFICATION

Product name : BERMOCOLL EM 7000 FQ
Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : Nouryon Functional Chemicals LLC
Performance Additives
Address : 100 Matsonford Road, Building 1, Suite 500
Radnor PA 19087
United States
Telephone : (845) 276-8230
Telefax : (845) 277-1404
E-mail address : RegulatoryAffairs@nouryon.com
Emergency telephone number : 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 : Rheological modification

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Combustible dust : Category 1

GHS label elements

Signal word : Warning

Hazard statements : 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

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
2-(2-Methoxyethoxy)ethanol	2-(2-Methoxyethoxy)ethanol	111-77-3	>= 0.1 - < 1 *

* Actual concentration or concentration range is withheld as a trade secret

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SECTION 4. 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 and shoes.
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. |
| Most important symptoms and effects, both acute and delayed | : | The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
No hazards which require special first aid measures. |
| Notes to physician | : | Treat symptomatically. |
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SECTION 5. FIREFIGHTING MEASURES

- | | | |
|---|---|---|
| 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 |
| Further information | : | Standard procedure for chemical fires. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | | |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Avoid dust formation.
Evacuate personnel to safe areas.
Only qualified personnel equipped with suitable protective equipment may intervene.
Prevent unauthorised 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. |

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SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
No sparking tools should be used.
- 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.
- Conditions for safe storage : Keep in a dry place.
Store at room temperature in the original container.
Keep container tightly closed.
- Materials to avoid : No special restrictions on storage with other products.
- Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Dust 5 mg/m³
Value type (Form of exposure): TWA (Total dust)

Contains no substances with occupational exposure limit values.

Engineering measures : 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
Material : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses
Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder
Colour : off-white

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Odour	:	odourless
Odour Threshold	:	No data available
pH	:	< 6.5 Concentration: 0.5 %
Melting point/range	:	No data available
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Combustible Solids May form combustible dust concentrations in air.
Flammability (liquids)	:	Not applicable
Burning number	:	5
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	30 g/m ³
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Solubility(ies)		
Water solubility	:	Soluble, gel formation.
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	400 °C Method: EN 50281-2-1
		170 °C Method: EN 15188
Decomposition temperature	:	> 100 °C

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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
 Viscosity, dynamic : 6,000 - 8,000 mPa.s (20 °C)
 pH 7 at 1% solution.

Viscosity, kinematic : No data available

Explosive properties : No data available

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

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

Dust explosion class : St2

Minimum ignition energy : > 10 mJ

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Dust may form explosive mixture in air.

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

Incompatible materials : 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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

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

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Remarks: Read-across (Analogy)

Components:

2-(2-Methoxyethoxy)ethanol:

Acute oral toxicity : LD50 (Mouse): > 5,000 mg/kg
Remarks: Information taken from reference works and the literature.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg
Remarks: Information taken from reference works and the literature.

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 sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

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 component 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.

Reproductive toxicity

Not classified due to lack of data.

Components:

2-(2-Methoxyethoxy)ethanol:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

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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.

Further information

Product:

Remarks : Delayed and immediate effects and also chronic effects from short and long term exposure
As stated above in the summary of toxicological information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

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

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

Components:

2-(2-Methoxyethoxy)ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h
Remarks: Information taken from reference works and the literature.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Remarks: Information taken from reference works and the literature.

Toxicity to algae/aquatic plants : EC50 (algae): > 100 mg/l
Exposure time: 96 h
Remarks: Information taken from reference works and the literature.

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Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Biochemical Oxygen Demand (BOD) : Remarks: No data available

Components:

2-(2-Methoxyethoxy)ethanol:

Biodegradability : Result: Readily biodegradable.
Remarks: Information taken from reference works and the literature.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

2-(2-Methoxyethoxy)ethanol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0.47 (20 °C)

Mobility in soil

Product:

Mobility : Remarks: No data available

Components:

2-(2-Methoxyethoxy)ethanol:

Mobility : Remarks: Adsorption to the solid soil particles is not expected.

Other adverse effects

Product:

Additional ecological information : None known.

Components:

2-(2-Methoxyethoxy)ethanol:

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Results of PBT and vPvB assessment : This substance is not considered to be a PBT (Persistent, Bioaccumulation, Toxic) This substance is not considered to be vPvB (very Persistent nor very Bioaccumulating)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal 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

International Regulations

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.

National Regulations

TDG

Not regulated as a dangerous good

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

NPRI Components : Butylated hydroxytoluene
Ethylene glycol
2-(2-Methoxyethoxy)ethanol
Ethyl diglycol
2-Methoxyethanol
2-Ethoxyethanol

The components of this product are reported in the following inventories:

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

TSCA : On or in compliance with the active portion of the TSCA inventory

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AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
TECI	:	Not in compliance with the inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; 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; 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, Bioaccumu-

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lative 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; 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; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 2023/12/07
Date format : mm/dd/yyyy

This 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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