

according to the OSHA Hazard Communication Standard

BERMOCOLL FLOW

 Version
 Revision Date:
 US / Z8
 Date of last issue: 12/22/2020

 1.2
 07/31/2023
 Date of first issue: 07/01/2019

SECTION 1. IDENTIFICATION

Product name : BERMOCOLL FLOW

Manufacturer or supplier's details

Company name of supplier : Nouryon Surface Chemistry LLC

Address : 100 Matsonford Road, Building 1, Suite 500

Radnor PA 19087

US

Telephone : (800) 906-9977

Telefax : (312) 544-7188

E-mail address

Emergency telephone : CANUTEC: +1 613-996-6666 CHEMTREC: +1 800-424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Thickening agent

Rheological modification

SECTION 2. HAZARDS IDENTIFICATION

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

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.

Other hazards

Dust can form an explosive mixture in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture



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Components

No hazardous ingredients

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.

SECTION 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

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 fire-fighters

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 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

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

smokina.

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

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



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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

particulates

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 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, vapor or aerosol formation use 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

Color : light yellow



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Odor : odorless

Odor 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 during

processing, handling or other means.

Flammability (liquids) : Not applicable

Burning number : 5

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

30 g/m3

Vapor pressure : Not applicable

Relative vapor 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

Autoignition temperature : > 788 °F / > 420 °C



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Method: Auto-ignition of a dust cloud according to EN 50281-

2-1

> 842 °F / > 450 °C

Method: Auto-ignition of a 5mm dust layer according to EN

50281-2-1

248 °F / 120 °C Method: EN 15188

Decomposition temperature : $> 212 \, ^{\circ}\text{F} / > 100 \, ^{\circ}\text{C}$

Avoid elevated temperatures. At temperatures above ~100 °C

the product will slowly decompose and dissolving qualities are

impaired.

Viscosity

Viscosity, dynamic : 350 - 700 mPa.s (68 °F / 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 explosion class : St1

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.



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Thermal decomposition : > 100 °C

Avoid elevated temperatures. At temperatures above ~100 °C the product will slowly decompose and dissolving qualities are

impaired.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.

Product:

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

Method: Calculation method

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.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient 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.

STOT-single exposure

Not classified due to lack of data.



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STOT-repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

Further information

Product:

Remarks : No further data available.

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)

Persistence and degradability

Product:

Biodegradability : Result: Not readily biodegradable.

Biochemical Oxygen

Demand (BOD)

: Remarks: No data available

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Product:

Mobility : Remarks: No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82



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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).

Additional ecological

information

None known.

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.

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

regulations.



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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).

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

California Prop. 65

WARNING: This product can expose you to chemicals including 2-Methoxyethanol, 2-Ethoxyethanol, Ethylene glycol, 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

TSCA : All substances listed as active on the TSCA inventory



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AIIC		:	On the in	nventory, or in compliance with the inventory
DSL		:	All compo	onents of this product are on the Canadian DSL
ENCS		:	On the in	eventory, or in compliance with the inventory
ISHL		:	On the in	eventory, or in compliance with the inventory
KECI		:	On the in	eventory, or in compliance with the inventory
PICCS	3	:	On the in	eventory, or in compliance with the inventory
IECSC		:	On the in	eventory, or in compliance with the inventory
NZIoC	;	:	On the in	eventory, or in compliance with the inventory
TECI		:	On the in	eventory, 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



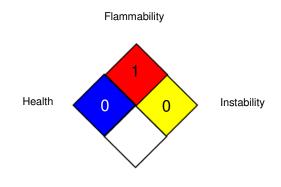
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NFPA 704:



Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

CAL PEL : California permissible exposure limits for chemical

contaminants (Title 8, Article 107)

CAL PEL / PEL : Permissible exposure limit

OSHA Z-3 : 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



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(Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation 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

see user defined free text

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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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