



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Canada

Revision date 28-Sep-2023

Revision Number 2

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

Product identifier

Product Name METHOCEL™ E19 Modified Cellulose Food Grade

Product Code(s) 309605

Recommended use of the chemical and restrictions on use

Recommended use Thickening agent
Binder
film
Processing aid
We recommend that you use this product in a manner consistent with the listed use. If your intended use is not consistent with the stated use, please contact your sales or technical service representative.

Details of the supplier of the safety data sheet

Supplier

Nutrition & Biosciences Canada Company
6925 Century Avenue, Suite 700
MISSISSAUGA ON L5N 7K2
CANADA***

E-mail address

sds.genencor@iff.com

Emergency telephone number

Local (Washington DC): +1 703-741-5970
Toll Free: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Combustible dust***

Yes***

Label elements

Emergency Overview

Signal word: Warning***

May form combustible dust concentrations in air***

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.***

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS No	Weight-%
Hydroxypropyl methylcellulose	9004-65-3	95 - 100

*The exact percentage (concentration) of composition has been withheld as a trade secret***

4. FIRST AID MEASURES

Description of first aid measures

General advice	When in doubt or if symptoms are observed, get medical advice.***
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.***
Skin contact	IF ON SKIN: Wash with plenty of water and soap. Get medical attention if irritation develops and persists.***
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.***
Ingestion	IF SWALLOWED: Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.***

Most important symptoms and effects, both acute and delayed

Get medical attention if irritation or other symptoms occur.***

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.***

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam. Dry powder. Water spray. Carbon dioxide (CO2).***

Unsuitable Extinguishing Media Keep product and empty container away from heat and sources of ignition. Do not use water jetstream.***

Special hazard

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.***

Hazardous combustion products Smoke production.***

Explosion data

Sensitivity to Mechanical Impact No.***

Sensitivity to Static Discharge Yes.***

Protective equipment and precautions for firefighters

Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.***

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Use personal protection recommended in Section 8. Sweep up to prevent slipping hazard.***

Environmental precautions

See Section 12 for additional Ecological Information. Clean contaminated objects and areas thoroughly observing environmental regulations.***

Methods and material for containment and cleaning up

Methods for containment Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Dispose of in accordance with local regulations.***

Methods for Cleaning Up Use industrial vacuum cleaners approved for combustible dust and area electrical classification.***

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid generation of dust and aerosols. Avoid contact with eyes, skin and clothing. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA- 654).***

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep/store only in original container. Keep container tightly closed in a dry and well-ventilated place.***

Incompatible Products None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Exposure guidelines Based on data available for ingredients.***

Chemical name	British Columbia	Alberta	Quebec	Ontario	ACGIH TLV
Dust, non-specific -	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³ inhalable particles, recommended TWA: 3 mg/m ³ respirable particles, recommended***

Appropriate engineering controls

Engineering Measures Ensure adequate ventilation. Avoid generation of dust and aerosols.***

Individual protection measures, such as personal protective equipment

Hand protection	Wear protective gloves.***
Eye/face protection	Wear safety glasses with side shields (or goggles).***
Skin and body protection	Wear protective gloves and protective clothing.***
Respiratory protection	If exposure limits are likely to be exceeded or if irritation or other symptoms are experienced, NIOSH/MSHA or EN 136 approved respiratory protection should be worn.***
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.***

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Powder
Physical state	Solid***
Color	White to off-white mild
Odor	No information available
Odor threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flash point	No data available	CC (closed cup)
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	May form combustible dust concentrations in air
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	soluble
Solubility(ies)	No data available	None known
Partition coefficient	No data available	bioconcentration : None known
Autoignition temperature	No data available	No data available.
Decomposition temperature	No data available	None known.
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

Other information

Explosive properties	No data available***
Oxidizing properties	No information available
Molecular weight	> 1000

10. STABILITY AND REACTIVITY

Reactivity

Not expected.***

Chemical stability

Stable under normal conditions.***

Possibility of hazardous reactions

None under normal processing.***

Conditions to avoid

Heat, flames and sparks. May form combustible dust concentrations in air.***

Incompatible materials

Keep away from heat, flames and sparks.***

Hazardous decomposition products

No hazardous decomposition products known.***

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity

Inhalation

No information or data specific to the product on this toxicological (health) effect is available.***

Eye contact

No information or data specific to the product on this toxicological (health) effect is available***

Skin contact

No information or data specific to the product on this toxicological (health) effect is available***

Ingestion

No information or data specific to the product on this toxicological (health) effect is available***

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Get medical attention if irritation or other symptoms occur.***

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.***

Germ cell mutagenicity

No information available.***

Carcinogenicity

No information available.***

Reproductive toxicity

No information available.***

STOT - single exposure

No information available.***

STOT - repeated exposure

No information available.***

Aspiration hazard

No information available.***

Numerical measures of toxicity

Component Information

Based on data available for ingredients

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydroxypropyl methylcellulose 9004-65-3	>4000 mg/kg (Rat)***	>5000 mg/kg (Rabbit)	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Based on data available for ingredients***

Persistence and degradability Based on data available for ingredients***

Chemical name	Biodegradation
Hydroxypropyl methylcellulose - 9004-65-3	Slow biodegradation***

Bioaccumulative potential Based on data available for ingredients.***

Chemical name	Bioaccumulation/Accumulation
Hydroxypropyl methylcellulose 9004-65-3	No bioaccumulation potential Molecular weight >1,000*****

Mobility in soil No information available.

Other adverse effects No information available***

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of wastes in an approved waste disposal facility. Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.***

Contaminated packaging Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.***

14. TRANSPORT INFORMATION

TDG Not regulated***

IATA Not regulated***

IMDG Not regulated***

15. REGULATORY INFORMATION

National Regulations

This safety data sheet complies with the requirements of:

This product is regulated by the Food and Drug Administration of Health Canada and is not subject to the WHMIS Requirements of the Hazardous Products Act and the Controlled Products Regulations Canadian WHMIS 2015

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR

16. OTHER INFORMATION

Revision date 28-Sep-2023

Revision Number 2

SDS sections updated ***Indicates updated data since last publication

Disclaimer

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.

End of Safety Data Sheet