



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

Revision date 21-Nov-2023

Revision Number 1

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Name METHOCEL™ F4M Modified Cellulose Food Grade

Product Code(s) 12700433

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Industrial

Uses advised against None under normal use conditions

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Nutrition & Biosciences Netherlands B.V.  
Willem Einthovenstraat 4  
2342 BH Oegstgeest The Netherlands  
Tel.: +31 71 5686 168  
Fax: +31 71 5686 169

#### E-mail address

sds.genencor@iff.com

### 1.4. Emergency telephone number

United Kingdom Local (London): +44 20 3807 3798

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture** Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS)

### 2.2. Label elements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS)

#### Hazard statements

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS)

### 2.3. Other hazards

WARNING. May form combustible dust concentrations in air. The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

3.2 Mixtures Not applicable

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hydroxypropyl methylcellulose 9004-65-3	95 - 100	618-389-6	-	-	-	-	-

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59)

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General advice</b>	When in doubt or if symptoms are observed, get medical advice.
<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
<b>Eye contact</b>	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.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
<b>Ingestion</b>	IF SWALLOWED: Never give anything by mouth to an unconscious person. Drink plenty of water. Get medical attention if symptoms occur.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Get medical attention if irritation or other symptoms occur.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Note to doctors</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Foam. Dry powder. Water spray. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Keep product and empty container away from heat and sources of ignition. Do not use water jetstream.

**5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards arising from the chemical</b>	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
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**Hazardous combustion products** No information available.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** 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). Sweep up to prevent slipping hazard.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.3. 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.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Avoid generation of dust and aerosols. Avoid contact with eyes, skin and clothing. Minimise 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).

**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.

### 7.2. 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.

**7.3. Specific end use(s)**

**Specific use(s)**

See section 1 for more information.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

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

**Derived No Effect Level (DNEL) - Workers** No information available.

**Derived No Effect Level (DNEL) - General Public** No information available.

**8.2. Exposure controls**

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

**Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear protective gloves.

**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.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Powder
<b>Physical state</b>	Solid
<b>Colour</b>	White to off-white
<b>Odour</b>	Odourless
<b>Odour threshold</b>	No information available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>	No data available	None known
<b>Initial boiling point and boiling range</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	May form combustible dust concentrations in air
<b>Flammability Limit in Air</b>		Not applicable to Solids
<b>Upper flammability or explosive</b>	No data available	

limits		
Lower flammability or explosive limits	No data available	
Flash point	No data available	CC (closed cup)
Autoignition temperature	170 °C	Key literature references and sources for data
Decomposition temperature	140	Differential Scanning Calorimetry (DSC)
pH	5 - 8	aqueous solution
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	Solid
Water solubility	No data available	partly soluble
Solubility(ies)	No data available	None known
Partition coefficient	No data available	bioconcentration : None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No data available	
Oxidising properties	No information available	

**9.2. Other information**

Molecular weight > 1000

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reactivity Not expected.

**10.2. Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact No.  
Sensitivity to static discharge Yes.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Conditions to avoid Heat, flames and sparks. May form combustible dust concentrations in air.

**10.5. Incompatible materials**

Incompatible materials Keep away from heat, flames and sparks.

**10.6. Hazardous decomposition products**

Hazardous decomposition products No hazardous decomposition products known.

**SECTION 11: Toxicological information**

### 11.1. 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.
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#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitisation** 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.

**Other adverse effects** No information available.

#### Numerical measures of toxicity

**Component Information** Classification based on data available for ingredients

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

*Hydroxypropyl methylcellulose* 9004-65-3

<b>Eye irritation</b>	Not expected
<b>Skin irritation</b>	Not expected
<b>Respiratory irritation</b>	Not expected
<b>Sensitisation</b>	Not expected
<b>Reproductive effects</b>	Not expected
<b>Mutagenic effects</b>	Not expected
<b>Systemic Toxicity</b>	Not expected
<b>Carcinogenicity</b>	Not expected
<b>Teratogenicity</b>	Not expected

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Based on data available for ingredients.

**Predicted No Effect Concentration (PNEC)** No information available.

### 12.2. Persistence and degradability

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

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

### 12.3. Bioaccumulative potential

**Bioaccumulation** Based on data available for ingredients.

Chemical name	Bioaccumulation/Accumulation
Hydroxypropyl methylcellulose	No bioaccumulation potential Molecular weight >1,000

## Component Information

### 12.4. Mobility in soil

**Mobility in soil** No information available.

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** Based on data available for ingredients.

Chemical name	PBT and vPvB assessment
Hydroxypropyl methylcellulose	The substance is not PBT / vPvB

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste from residues/unused products** Dispose of wastes in an approved waste disposal facility. Dispose of contents and 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.

**SECTION 14: Transport information**

**IATA**

- 14.1 UN number or ID number Not regulated
- 14.2
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special Precautions for Users
- Special Provisions None

**IMDG**

- 14.1 UN number or ID number Not regulated
- 14.2
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special Precautions for Users
- Special Provisions None
- 14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

- 14.1 UN number Not regulated
- 14.2
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special Precautions for Users
- Special Provisions None

**ADR**

- 14.1 UN number or ID number Not regulated
- 14.2 UN proper shipping name Not regulated
- 14.3 Transport hazard class(es) Not regulated
- 14.4 Packing group Not regulated
- 14.5 Environmental hazards Not applicable
- 14.6 Special Precautions for Users
- Special Provisions None



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Named dangerous substances per COMAH Regulations 2015 (as amended)**

Not applicable

**The Ozone-Depleting Substances Regulations 2015**

Not applicable

**The Biocidal Products Regulations 2001 (as amended)**

Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**

Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)**

Not applicable

### International Inventories

Chemical name	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS
Hydroxypropyl methylcellulose 9004-65-3	X	X	-	X	X	X	X

### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

## SECTION 16: Other information

**Legend**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- AICS** - Australian Inventory of Chemical Substances

**Further information**

ATEX Directive 1999/92/EC, Workplace Requirements for Explosive Atmospheres  
ATEX Directive 94/9/EC, Equipment for use in Explosive Atmospheres

Telephone enquiry:

CHEMTREC NUMBERS

Belgium: 32-28083237: 359-32570104: 385-17776920 Republic: 420-228880039 :  
45-69918573: 372-6681294: 358-942419014: 33-975181407: 0800-181-7059:  
30-2111768478: 36-18088425: 354 539 0655: 000-800-100-7141 : 353-19014670:  
972-37630639: 39-0245557031: 371-66165504: 370-52140238 : 352-20202416: 389 2 551  
7456 : 01-800-681-9531 : 31-858880596 : 234 1 227 8883 : 48-223988029 :  
351-308801773: 40-37-6300026: 8-800-100-6346 Arabia: 966-8111095861 :  
421-233057972: 38-618888016 Africa: 0-800-983-611: 34-931768545: 46-852503403:  
41-435082011: 90-212-7055340: 380-947101374 Kingdom: 44-870-8200418 and  
44-2038073798

**Revision date**

21-Nov-2023

**Reason for revision**

\*\*\*Indicates updated section

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)**

**Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**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**