# SAFETY DATA SHEET



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 19-Dec-2022 Revision Number 1

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

### 1.1. Product identifier

Product Name METHOCEL™ K15M S Hydroxypropyl Methylcellulose

Product Code(s) 370539

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

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.

## 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

Emergency Telephone See section 16 for more information

Emergency Telephone - §45 - (EC)1272/2008		
Poison control centre phone	112 (Europe)	
number		

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH208 - Contains Ethanedial May produce an allergic reaction.

## 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**

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hydroxypropyl methylcellulose 9004-65-3	95 - 100	REACH Exempt	1	-	-	1	-
Ethanedial 107-22-2	0.1 - <1	01-211946173 3-37	(605-016-00-7) 203-474-9	Acute Tox. 5 (H303) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Muta. 2 (H341) STOT SE 3 (H335)	-	-	-

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

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg		Inhalation LC50 - 4 hour - vapour - mg/L	
Ethanedial 107-22-2	200	12700	No data available	= 2.44 mg/L(Rat)4 h	No data available

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

General advice When in doubt or if symptoms are observed, get medical advice.

**Inhalation** IF INHALED: Remove person to fresh air and keep comfortable for breathing. If

experiencing respiratory symptoms: Call a POISON CENTER or doctor.

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. If skin irritation occurs: Get medical

advice/attention.

Ingestion 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

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Get medical

attention if irritation or other symptoms occur.

### 4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

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.

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

Specific hazards arising from the

chemical

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.

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). Use personal

protection recommended in Section 8. Sweep up to prevent slipping hazard.

## 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.

# 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

ı	Chemical name	European Union	United Kingdom	France	Spain	Germany TRGS
Ī	Ethanedial	-	-	-	TWA: 0.1 mg/m <sup>3</sup>	-
	107-22-2				Sen+	
Ī	Dust, non-specific	-	-	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-
	·			TWA: 5 mg/m <sup>3</sup>	TWA: 3 mg/m <sup>3</sup>	

Chemical name	Italy MDLPS	Portugal	Netherlands	Finland	Denmark
Ethanedial	-	TWA: 0.1 mg/m <sup>3</sup>	-	TWA: 0.02 mg/m <sup>3</sup>	Ceiling: 0.2 ppm
107-22-2		Sensitizer dermal			Ceiling: 0.5 mg/m <sup>3</sup>
Dust, non-specific	-	TWA: 10 mg/m <sup>3</sup>	-	-	-

Chemical name	Italy MDLPS	Portugal	Netherlands	Finland	Denmark
		TWA: 3 mg/m <sup>3</sup>			

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Ethanedial 107-22-2	-	-	-	-	STEL: 0.3 mg/m <sup>3</sup>
Dust, non-specific	-	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 20 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

Chemical name	Belgium	Sweden	Croatia	Turkey
Ethanedial 107-22-2	TWA: 0.1 mg/m <sup>3</sup>	-	-	-
Dust, non-specific	TWA: 3 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	-	-	-

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

Appearance Powder
Physical state Solid

Colour White to off-white Odour Odourless

Odour threshold No information available

Property Values Remarks • Method

5 - 8 aqueous solution Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo 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 None known

Flammability Limit in Air

Not applicable to Solids

370539 - METHOCEL™ K15M S Hydroxypropyl Revision date 19-Dec-2022 Methylcellulose

Upper flammability or explosive

limits

Lower flammability or explosive No data available

limits

Vapour pressureNo data availableNone knownRelative vapour densityNo data availableNone knownRelative densityNo data availableNone known

No data available

Bulk density
No data available
Liquid Density
No data available

Water solubilityNo data availablepartly solubleSolubility(ies)No data availableNone known

Partition coefficient No data available bioconcentration : None known

Autoignition temperature170 °CKey literature references and sources for dataDecomposition temperature140Differential Scanning Calorimetry (DSC)

Decomposes on heating

Kinematic viscosity

No data available

None known

**Dynamic viscosity** No data available Solid

Particle characteristics

Particle Size Not applicable
Particle Size Distribution Not applicable

9.2. Other information

Molecular weight > 1000

9.2.1. Information with regards to physical hazard classes

Not applicable

Explosive properties No data available.

9.2.2. Other safety characteristics None known

Sensitivity to mechanical impact No

# 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. Information on hazard classes as defined in Regulation (EC) No 1272/2008

### **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. May cause allergy or asthma

symptoms or breathing difficulties if inhaled.

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

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.

Numerical measures of toxicity

Component Information Classification based on data available for ingredients

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydroxypropyl methylcellulose	>4000 mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	-
Ethanedial	= 200 mg/kg (Rat)	= 12700 mg/kg ( Rabbit )	= 2.44 mg/L (Rat)4 h

Hydroxypropyl methylcellulose 9004-65-3

Eye irritation Not expected Skin irritation Not expected Not expected Respiratory irritation Not expected Sensitisation Reproductive effects Not expected **Mutagenic effects** Not expected **Systemic Toxicity** Not expected Not expected Carcinogenicity

Teratogenicity Not expected

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

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

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethanedial 107-22-2	EC50: >500mg/L (72h, Desmodesmus subspicatus) EC50: >500mg/L (96h, Desmodesmus subspicatus) EC50: <=348.59mg/L (96h, Pseudokirchneriella subcapitata)	LC50: =215mg/L (96h, Pimephales promelas)	<u>-</u>	EC50: =404mg/L (48h, Daphnia magna)

### 12.2. Persistence and degradability

Persistence and degradability Based on data available for ingredients.

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

## 12.3. Bioaccumulative potential

Bioaccumulative potential Based on data available for ingredients

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

**Component Information** Based on data available for ingredients

Chemical name	Partition coefficient			
Ethanedial	-1			
107-22-2				

### 12.4. Mobility in soil

Mobility in soil 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 9004-65-3	The substance is not PBT / vPvB
Ethanedial 107-22-2	The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

### 12.7. Other adverse effects

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
14.2 Extended Proper Shipping
Name
Name

Name

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated
 Not applicable

14.6 Special Precautions for Users

Special Provisions None

### **IMDG**

14.1UN number or ID numberNot regulated14.2EPNMNot regulated14.3Transport hazard class(es)Not regulated14.4Packing groupNot regulated14.5Environmental hazardsNot applicable

14.6 Special Precautions for Users

Special Provisions None

14.7 Maritime transport in bulk No information available

according to IMO instruments

RID

**14.1 UN number 14.2 Extended Proper Shipping**Not regulated Not regulated

Name

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special Precautions for Users

Special Provisions None

ADR

14.1 UN number or ID numberNot regulated14.2 UN proper shipping nameNot regulated14.3 Transport hazard class(es)Not regulated14.4 Packing groupNot regulated14.5 Environmental hazardsNot 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

National regulations

France Occupational Illnesses (R-463-3, France) Based on data available for ingredients

Water hazard class (WGK) Based on data available for ingredients

Mixture Based on data available for ingredients

Chemical name	CAS No	WGK Classification (AwSV)
Ethanedial	107-22-2	Klasse (class) 1

### 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).

International Inventories: Based on data available for ingredients

Chemical name	AICS	DSL/NDSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS
Ethanedial 107-22-2	Х	Х	Х	Х	Х	Х	Х

## 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: 385-17776920Republic: 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:

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: 38-618888016Africa: 0-800-983-611: 34-931768545: 46-852503403: 41-435082011: 90-212-7055340: 380-947101374 Kingdom: 44-870-8200418 and

44-2038073798

Revision date 19-Dec-2022

Reason for revision \*\*\*Indicates updated section

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

#### **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**