



# 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 06-Oct-2023

Revision Number 3

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

### 1.1. Product identifier

**Product Name** ETHOCEL™ Standard 7 Ethylcellulose Industrial Grade  
**Product Code(s)** 47238  
**Pure substance/mixture** Mixture\*\*\*

### 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

+32 (0) 50 44 91 73\*\*\*

Emergency Telephone - §45 - (EC)1272/2008	
Europe	See section 16 for more information***
Poison control centre phone number	Italy: Telephone numbers of the main poison control centers (CAV) active 24/24h: CAV "Osp. Pediatrico Bambino Gesù", Piazza Sant'Onofrio 4, 00165 Roma, Tel. 0668593726 Az. Osp. Univ. Foggia, Via le Luigi Pinto 1, 71122 Foggia, Tel. 800183459 Az. Osp. "A. Cardarelli", Via A. Cardarelli 9, 80131 Napoli, Tel. 081-5453333 CAV Policlinico "Umberto I", Via le del Policlinico 155, 00161 Roma, Tel. 06-49978000 CAV Policlinico "A. Gemelli" Largo Agostino Gemelli 8, 00168 Roma, Tel. 06-3054343 Az. Osp. "Careggi" U.O. Tossicologia Medica, Largo Brambilla 3, 50134 Firenze, Tel. 055-7947819 CAV Centro Nazionale di Informazione Tossicologica, Via Salvatore Maugeri 10, 27100 Pavia, Tel. 0382-24444 Osp. Niguarda Ca' Granda, Piazza Ospedale Maggiore 3, 20162 Milano, Tel. 02-66101029 Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS 1, 24127 Bergamo, Tel. 800883300 Azienda Ospedaliera Integrata Verona, Piazzale Aristide Stefani 1, 37126 Verona, Tel. 800011858  Austria: +43 (0) 14064343

	Belgium: +32 (0) 70245245 Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 Cyprus: 1401 (only from within Cyprus) Czech Republic: +420 224 919 293 Denmark: +45 8212 1212 Estonia: +372 7943 794 Finland: +0800 147 111 (only from within Finland) France: + 33 (0)1 45 42 59 59 Germany: +49 (0) 55119240 Greece: +30 2107793777 Hungary: +36-80-201-199 Iceland: +543 1000 (only from within Iceland) Ireland: +353 (0) 18379964 Latvia: +371 67042473 Liechtenstein: +41 442 515 151 Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 Malta: +2122 4071 (only from within Malta) the Netherlands: +31 (0)88 755 8000 (only for medical professionals) Norway: +22 59 13 00 (only from within Norway) Poland: +48 (22) 6 19 08 97 Portugal: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: +386 (0) 1 522 50 50 Spain: +34 91 562 04 20 Sweden: +010-456 6700 (only from within Sweden for less urgent cases; urgent cases: 112) Switzerland: +41 442 515 151
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

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

### 2.2. Label elements

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

### 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-%	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)
Ethylcellulose 9004-57-3	95 - 100	No data available		-	-	-	-

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 - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Ethylcellulose 9004-57-3	>5000mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	No data available	No data available	No data available

## 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

**Symptoms** 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.

**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.

### **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

Chemical name	European Union	United Kingdom	France	Spain	Germany TRGS
Dust, non-specific	-	-	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-

Chemical name	Italy MDLPS	Portugal	Netherlands	Finland	Denmark
Dust, non-specific	-	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	-	-	-

Chemical name	Austria	Switzerland	Poland	Norway	Ireland
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	Greece
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

<b>Appearance</b>	Powder
<b>Physical state</b>	Solid***
<b>Colour</b>	White to light yellow
<b>Odour</b>	Odourless
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	5 - 8	aqueous solution
<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>Flash point</b>	No data available	CC (closed cup)
<b>Evaporation rate</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 limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Vapour pressure</b>	No data available	None known
<b>Relative vapour density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Water solubility</b>	No data available	Insoluble
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	bioconcentration : None known
<b>Autoignition temperature</b>	No data available	Key literature references and sources for data Does not ignite before melting
<b>Decomposition temperature</b>		Decomposes on heating
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>		Not applicable
<b>Particle Size Distribution</b>		Not applicable

### 9.2. Other information

<b>Softening point</b>	No data available
<b>Molecular weight</b>	> 1000

#### 9.2.1. Information with regards to physical hazard classes

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Explosive properties No data available.

<b>9.2.2. Other safety characteristics</b>	None known
<b>Sensitivity to mechanical impact</b>	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.

#### 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
Ethylcellulose	>5000mg/kg ( Rat )	>5000 mg/kg ( Rabbit )	-

*Ethylcellulose 9004-57-3*

Eye irritation	Not expected
Skin irritation	Not expected
Respiratory irritation	Not expected
Sensitisation	Not expected
Reproductive effects	NOAEL (No observed adverse effect level) 1,309 mg/kg Rat
Mutagenic effects	Not expected
Systemic Toxicity	Not expected
Carcinogenicity	Not expected
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.

**12.2. Persistence and degradability**

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

Chemical name	Biodegradation
Ethylcellulose 9004-57-3	Not readily biodegradable

**12.3. Bioaccumulative potential**

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



Chemical name	Bioaccumulation/Accumulation
Ethylcellulose 9004-57-3	No bioaccumulation potential Molecular weight >1,000

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

**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
Ethylcellulose 9004-57-3	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 Not regulated
- 14.2 Extended 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

**IMDG**

- 14.1 UN number or ID number Not regulated
- 14.2 EPNM 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

14.7 Maritime transport in bulk according to IMO instruments No information available

**RID**

14.1 UN number Not regulated

14.2 Extended 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

**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**

International Inventories: Based on data available for ingredients

Chemical name	AICS	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS
Ethylcellulose 9004-57-3	X	X	-	X	X	X	X

**National regulations**

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

Chemical name	CAS No	WGK Classification (AwSV)
Ethylcellulose	9004-57-3	Klasse (class) 1

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

**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).

**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/NDL** - 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

### Use CHEMTREC instead of Emergency Phone Number

Belgium: 32-28083237  
Bulgaria: 359-32570104  
Croatia: 385-17776920  
Czech Republic: 420-228880039  
Denmark: 45-69918573  
Estonia: 372-6681294  
Finland: 358-942419014  
France: 33-975181407  
Germany: 0800-181-7059  
Greece: 30-2111768478  
Hungary: 36-18088425  
Iceland: 354 539 0655  
India: 000-800-100-7141  
Ireland: 353-19014670  
Israel: 972-37630639  
Italy: 39-0245557031  
Latvia: 371-66165504  
Lithuania: 370-52140238  
Luxembourg: 352-20202416  
Macedonia: 389 2 551 7456  
Netherlands: 31-858880596  
Nigeria: 234 1 227 8883  
Poland: 48-223988029  
Portugal: 351-308801773  
Romania: 40-37-6300026  
Russia: 8-800-100-6346  
Saudi Arabia: 966-8111095861  
Slovakia: 421-233057972  
Slovenia: 38-618888016

South Africa: 0-800-983-611  
Spain: 34-931768545  
Sweden: 46-852503403  
Switzerland: 41-435082011  
Ukraine: 380-947101374  
United Kingdom: 44-870-8200418 and 44-2038073798\*\*\*

Revision date 06-Oct-2023

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**