

## 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 07-Dec-2023 Revision Number 1

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

#### 1.1. Product identifier

Product Name ETHOCEL™ Standard 45 Premium Ethylcellulose

Product Code(s) 61043781

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

Recommended use Thickening agent

Binder

Processing aid Coating Filler

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.

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

See section 16 for more information

| Emergency Telephone - §45 - (E | =C)12 <i>72</i> /2008  |
|--------------------------------|--|
| Poison control centre phone    | ltaly:   |
| number                         | 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

## **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<br>registration<br>number | EC No (EU<br>Index No) | Classification<br>according to<br>Regulation<br>(EC) No.<br>1272/2008<br>[CLP] | Specific<br>concentration<br>limit (SCL) | M-Factor | M-Factor<br>(long-term) |
|-----------------------------|----------|---------------------------------|------------------------|--|--|----------|-------------------------|
| Ethylcellulose<br>9004-57-3 | 95 - 100 | No data<br>available            |                        | -  | -  | 1        | -                       |

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

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

container.

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: 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 |
|--------------------|-------------|---------------------------|-------------|---------|---------|
| 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: 10 mg/m <sup>3</sup>  |
|                    |         |             |        | TWA: 5 mg/m <sup>3</sup>   | TWA: 4 mg/m <sup>3</sup>   |
|                    |         |             |        | STEL: 20 mg/m <sup>3</sup> | STEL: 30 mg/m <sup>3</sup> |
|                    |         |             |        | STEL: 10 mg/m <sup>3</sup> | STEL: 12 mg/m <sup>3</sup> |

| Chemical name      | Belgium                   | Sweden | Croatia | Türkiye | 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.

Wear protective gloves and protective clothing. Skin and body protection

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

White to light yellow Colour Odourless to mild Odour Odour threshold No information available

Values Remarks • Method **Property** 

No data available None known pН Melting point / freezing point No data available None known Initial boiling point and boiling rangeNo data available None known No data available CC (closed cup) Flash point **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 No data available limits

Lower flammability or explosive No data available

limits

Vapour pressure No data available

None known Relative vapour density No data available None known Relative density No data available None known

**Bulk density** No data available **Liquid Density** No data available

Water solubility No data available Insoluble 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** None known Kinematic viscosity No data available None known Estimated

**Dynamic viscosity** 45 mPas

Particle characteristics Particle Size Not applicable **Particle Size Distribution** Not applicable

9.2. Other information

No data available Softening point

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.

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.

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**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

<u>Component Information</u> 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 irritationNot expectedSkin irritationNot expectedRespiratory irritationNot expectedSensitisationNot expected

Reproductive effects NOAEL (No observed adverse effect level) 1,309 mg/kg Rat

Mutagenic effectsNot expectedSystemic ToxicityNot expectedCarcinogenicityNot expectedTeratogenicityNot 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 | Not readily biodegradable |
| 9004-57-3      |                           |

## 12.3. Bioaccumulative potential

Bioaccumulative potential Based on data available for ingredients

| Chemical name  | Bioaccumulation/Accumulation |
|----------------|------------------------------|
| Ethylcellulose | No bioaccumlution potential  |
| 9004-57-3      | 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 | The substance is not PBT / vPvB |
| 9004-57-3      |                                 |

## 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 Not regulated Not regulated

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 Not regulated
14.2 Extended Proper Shipping 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 number
 14.2 UN proper shipping 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

## 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/ELIN<br>CS | ENCS | IECSC | KECL | PICCS |
|-----------------------------|------|----------|-------------------|------|-------|------|-------|
| Ethylcellulose<br>9004-57-3 | Х    | Х        | -                 | Х    | Х     | Х    | Х     |

## 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/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: 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 07-Dec-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

Revision date 07-Dec-2023

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**