

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 03-Oct-2022

Revision Number 1

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

1.1. Product identifier

Product Name ETHOCEL™ Standard 10 Ethylcellulose Industrial Grade

Product Code(s) 48254

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

Recommended use Processing aid
Coating
Filler
Binder
Thickening agent
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 number | 112 (Europe) |
|------------------------------------|--------------|

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
No information 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 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

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 light yellow |
| Odour | Odourless to mild |
| Odour 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 | None known |

| | | |
|---|-------------------|-------------------------------|
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| 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 |
| Dynamic viscosity | No data available | None known |
| 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

No information available

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. |
| 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 | Not expected |
| 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 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 Not regulated

Name

| | |
|------------------------------------|----------------|
| 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

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

Mixture Based on data available for ingredients

| Chemical name | CAS No | WGK Classification (AwSV) |
|----------------|-----------|---------------------------|
| Ethylcellulose | 9004-57-3 | 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).

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

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

Mexico: 01-800-681-9531

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

Turkey: 90-212-7055340

Ukraine: 380-947101374

United Kingdom: 44-870-8200418 and 44-2038073798

Revision date

03-Oct-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