

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: United States of America

Revision date 07-Dec-2023 Revision Number 1

1. Identification

Product identifier

Product Name ETHOCEL™ Standard 45 Ethylcellulose Industrial Grade

Product Code(s) 48272

Recommended use of the chemical and restrictions on use

Recommended use Industrial

Restrictions on useNone under normal use conditions

Details of the supplier of the safety data sheet

Supplier Address

Nutrition & Biosciences USA 1, LLC 3490 Winton Place Rochester, New York 14623 USA

+ 1 800 255 6837 (General Information)

E-mail address

sds.genencor@iff.com

Emergency telephone number

Local (Washington DC): +1 703-741-5970

Toll Free: 1-800-424-9300

2. Hazard(s) identification

Classification

Combustible dust Yes

Label elements

Signal word: Warning

May form combustible dust concentrations in air

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other information

No information available.

3. Composition/information on ingredients

Substance

| Chemical name | Chemical name CAS No. | |
|----------------|-----------------------|----------|
| Ethylcellulose | 9004-57-3 | 95 - 100 |

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

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.

Most important symptoms and effects, both acute and delayed

Symptoms Get medical attention if irritation or other symptoms occur.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

5. Fire-fighting measures

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.

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.

Explosion data

Sensitivity to mechanical impact No.

Sensitivity to static discharge Yes

Special protective equipment for Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters'

fire-fighters protective clothing will provide adequate protection.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Dust deposits should not be allowed to accumulate on surfaces, as these may form an Personal precautions

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.

Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Dispose of Methods for containment

in accordance with local regulations.

Methods for cleaning up Use industrial vacuum cleaners approved for combustible dust and area electrical

classification.

7. Handling and storage

Precautions for safe handling

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

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).

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.

8. Exposure controls/personal protection

Control parameters

Exposure Limits Based on data available for ingredients

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------|-------------------------------------|---|------------|
| Dust, non-specific | TWA: 10 mg/m ³ inhalable | TWA: 15 mg/m³ total dust | - |
| | particles, recommended | TWA: 5 mg/m³ respirable | |
| | TWA: 3 mg/m ³ respirable | fraction | |
| | particles, recommended | (vacated) TWA: 15 mg/m ³ total | |
| | | dust | |
| | | (vacated) TWA: 5 mg/m ³ | |
| | | respirable fraction | |
| | | TWA: 15 mppcf respirable | |
| | | fraction | |
| | | TWA: 50 mppcf total dust | |

Appropriate engineering controls

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

Individual protection measures, such as 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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Powder
Physical state Solid

Color White to light yellow

Odor Odorless

Odor threshold No information available

Property Values Remarks • Method

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownInitial boiling point and boiling rangeNo data availableNone knownFlash pointNo data availableCC (closed cup)Evaporation rateNo data availableNone known

Flammability (solid, gas)

No data available

May form combustible dust concentrations in air

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownRelative vapor densityNo data availableNone knownRelative densityNo data availableNone knownWater solubilityNo data availableinsolubleSolubility(ies)No data availableNone known

Partition coefficient No data available bioconcentration: None known

Autoignition temperature No data available Key literature references and sources for data Does

not ignite before melting

Not applicable to Solids

Decomposition temperatureNo data availableNone knownKinematic viscosityNo data availableNone knownDynamic viscosityNo data availableSolid

Other information

Explosive properties No data available
Oxidizing properties No information available

Molecular weight > 1000

10. Stability and reactivity

Reactivity Not expected.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

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

Incompatible materials Keep away from heat, flames and sparks.

Hazardous decomposition products No hazardous decomposition products known.

11. Toxicological information

Information on likely routes of exposure

Product Information

Acute toxicity

InhalationNo information or data specific to the product on this toxicological (health) effect is available.Eye contactNo information or data specific to the product on this toxicological (health) effect is available.Skin contactNo information or data specific to the product on this toxicological (health) effect is available.IngestionNo 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 sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.

Numerical measures of toxicity

Component InformationBased on data available for ingredients

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------|------------------|----------------------|-----------------|
| Ethylcellulose | >5000mg/kg (Rat) | >5000 mg/kg (Rabbit) | - |
| 9004-57-3 | | | |

Ethylcellulose 9004-57-3

Eye irritationNot expectedSkin irritationNot expectedRespiratory irritationNot expectedSensitizationNot expected

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

Not expected **Mutagenic effects Systemic Toxicity** Not expected Carcinogenicity Not expected Teratogenicity Not expected

12. Ecological information

Ecotoxicity Based on data available for ingredients

Persistence and degradability Based on data available for ingredients.

Bioaccumulative potential Based on data available for ingredients.

| Chemical name | Biodegradation | Bioaccumulation/Accumulation |
|----------------|---------------------------|------------------------------|
| Ethylcellulose | Not readily biodegradable | No bioaccumlution potential |
| 9004-57-3 | | Molecular weight >1,000 |

Mobility in soil No information available. Other adverse effects No information available.

13. Disposal considerations

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.

14. Transport information

DOT Not regulated

Not regulated <u>IATA</u>

Not regulated **IMDG**

15. Regulatory information

International Inventories Based on data available for ingredients

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

US Federal Regulations

TSCA

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device is not subject to the notification requirements of the United States of America regulation 40 CFR 720.

| Chemical name | CAS No. | US TSCA Inventory listing | |
|----------------|-----------|---------------------------|-------------|
| | | | designation |
| Ethylcellulose | 9004-57-3 | Present | Active |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Based on data available for ingredients

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

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Revision Number

Revision Note ***Indicates updated data since last publication.

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