



SAFETY DATA SHEET

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

Revision date 12-Sep-2023

Revision Number 1

1. Identification

Product identifier

Product Name METHOCEL™ 856 Hydroxypropyl Methylcellulose

Product Code(s) 6026044

Recommended use of the chemical and restrictions on use

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.

Restrictions on use None 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 | CAS No | Weight-% |
|-------------------------------|-----------|----------|
| Hydroxypropyl methylcellulose | 9004-65-3 | 90 - 95 |

*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. |
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Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Note to physicians | Treat 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 | Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition |

| | |
|--|--|
| chemical | 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 fire-fighters | Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection. |

6. Accidental release measures

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. |
|----------------------|---|

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. |

7. Handling and storage

Precautions for safe handling

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

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|--------------------|--|
| 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 particles, recommended TWA: 3 mg/m ³ respirable particles, recommended | TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (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 off-white |
| Odor | Odorless |
| Odor 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 | May form combustible dust concentrations in air |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | No data available | None known |

| | | |
|---------------------------|--------------------------|-------------------------------|
| Relative vapor density | No data available | None known |
| Relative density | No data available | None known |
| Water solubility | No data available | soluble |
| 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 | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| 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 | None known based on information supplied. |

11. Toxicological information

Information on likely routes of exposure

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 sensitization | 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

Based on data available for ingredients

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|---------------------|------------------------|-----------------|
| Hydroxypropyl methylcellulose 9004-65-3 | >4000 mg/kg (Rat) | >5000 mg/kg (Rabbit) | - |

Hydroxypropyl methylcellulose 9004-65-3

| | |
|------------------------|--------------|
| Eye irritation | Not expected |
| Skin irritation | Not expected |
| Respiratory irritation | Not expected |
| Sensitization | Not expected |
| Reproductive effects | Not expected |
| Mutagenic effects | Not expected |
| 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 |
|--|---------------------|---|
| Hydroxypropyl methylcellulose 9004-65-3 | Slow biodegradation | No bioaccumulation potential 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

IATA Not regulated

IMDG Not regulated

15. Regulatory information

International Inventories Based on data available for ingredients

| Chemical name | AICS | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS |
|---|------|----------|---------------|------|-------|------|-------|
| Hydroxypropyl methylcellulose 9004-65-3 | X | X | - | X | X | X | X |

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 | US TSCA active/inactive designation |
|-------------------------------|-----------|---------------------------|-------------------------------------|
| Hydroxypropyl methylcellulose | 9004-65-3 | 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/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

Revision date 12-Sep-2023

Revision Number 1

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