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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 2

1. Identification		
Product identifier		
Product Name	METHOCEL™ 228 S Hydroxypropyl Methylcellulose	
Product Code(s)	11044123	
Recommended use of the chem	ical and restrictions on use	
Recommended use	Industrial	
Restrictions on use	None under normal use conditions	
Details of the supplier of the saf	iety 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): +1 703-74 Toll Free: 1-800-424-9300	41-5970	
2. Hazard(s) identification	on	
<u>Classification</u>		
Combustible dust	Yes	
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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

<u>Mixture</u>

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.	
Indication of any immediate medica	al 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 chemical	Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.	
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). 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).

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/m ³ total dust	-
	particles, recommended	TWA: 5 mg/m ³ 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

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Appearance	Powder
Physical state	Solid
Color	White to off-white mild
Odor	No information available
Odor threshold	No information available

Property	Values
рН	No data available
Melting point / freezing point	No data available
Initial boiling point and boiling rang	eNo data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor pressure	No data available
Relative vapor density	No data available
	No data available
Relative density	
Water solubility	No data available
Solubility/icc)	No data available
Solubility(ies) Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Other information	
Explosive properties	No data available
Oxidizing properties	No information available
Molecular weight	> 1000

Remarks • Method

None known None known OCC (closed cup) None known May form combustible dust concentrations in air None known

None known None known soluble Key literature references and sources for data None known bioconcentration : None known No data available None known None known None known

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	
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	Slow biodegradation	No bioaccumulation potential
9004-65-3		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
IATA	Not regulated
IMDG	Not regulated

15. Regulatory information

International Inventories

Based on data available for ingredients

Chemical name	AICS	DSL/NDSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS
Hydroxypropyl methylcellulose 9004-65-3	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	US TSCA active/inactive designation
Hydroxypropyl methylcellulose	9004-65-3	Present	Active

<u>SARA 313</u>

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).

<u>CERCLA</u>

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

Revision date

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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