



Letter of Acknowledgement

Title: Safety Data Sheet- J. Rettenmaier USA KeyCel® Powdered Cellulose

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Approved By: Peterson, Cathy

Version 2
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Section 1- Identification-

KeyCel® Powdered Cellulose

Description: Cellulose from the fibrous parts plants
Applicable to: KeyCel® Powdered Cellulose KC200CT
Supplier: J. Rettenmaier USA Schoolcraft, MI 49087
Phone: 269-679-2340
Recommended Use: Professional use as a food grade ingredient
Restrictions on Use: None

Section 2- Hazard(s) Identification

GHS Pictogram: N/A

WARNING: May form combustible dust concentrations in the air.

Cellulosic fibers are considered a nuisance dust. Material is combustible but will not readily ignite.

HMIS Rating: Health- 0; Reactivity- 0; Flammability- 1; Personal Protection- E

NFPA Rating: Health- 0; Flammability- 1; Reactivity- 0; Special- None

The material does not require registration in accordance with REACH, Annex IV and V.

Section 3- Composition/Information on Ingredients

Dietary fiber made from the fibrous parts plants

CAS Number: 9004-34-6

EC- Number (EINECS/ELINCS): Does Not Apply

Dangerous Ingredients: None

Section 4- First Aid Measures

General:

When symptoms persist or if in doubt, seek immediate professional medical advice. Chronic exposure may lead to dermatitis or respiratory sensitization.

Following Inhalation:

May irritate respiratory system. Persons with respiratory problems should avoid breathing dust. Use NIOSH approved respiratory mask for nuisance dust. For overexposure- remove to fresh air

Skin contact:

For broken or sensitive skin wear protective gloves. Wash dust from skin with soap and water.



Eye Contact: May irritate eyes. Wear protective glasses or goggles. Carefully and thoroughly flush from eyes with eye bath or water.

Ingestion: First aid measures normally not required for incidental ingestion. Ingestion of larger amounts or material may result in vomiting or diarrhea. Treat symptomatically.

Self-protection for first responders: None

Section 5- Fire Fighting Measures

Suitable Extinguishing Techniques: Apply water, foam, CO₂, Dry chemical powder

Special Firefighting Procedures: Wear self contained breathing apparatus

Chemical Hazards From Fire: Thermal decomposition may produce CO and CO₂. Hazardous polymerization will not occur.

Section 6- Accidental Release Measures

Emergency Procedures: None

Protective Equipment: Skin, eye, ingestions controls (Section 4)

Method of Clean-Up: Collect mechanically avoiding excessive dust generation. Sweeping should be avoided to prevent the formation of dust clouds and static electricity discharge (ignition source).

Disposal: Dispose of in solid waste landfill in accordance with all applicable federal, state and local regulations.

Section 7- Handling & Storage

Handling: Material is combustible. In case of open handling, use devices with built-in aspiration where possible.

Measures to Prevent Dust Accumulation: Explosive dust/air mixtures may form. Provide sufficient ventilation. Provide local aspiration where dust is likely to occur. Accumulated dust should be immediately vacuumed.

Storage: Material is combustible. Do not store near heat or open flame.
Store in original packaging. Keep dry.
Material is stable for two years when stored under these conditions.

Section 8- Exposure Controls



NIOSH REL:	TWA 10 mg/m ³ (Total) TWA 5 mg/m ³ (resp)
OSHA PEL:	TWA 15 mg/m ³ (Total) TWA 5 mg/m ³ (resp)
Engineering Controls	Adequate ventilation and local aspiration
Respiratory Protection:	NIOSH approved respiratory mask for nuisance dust
Eye Protection:	Protective glasses or goggles
Hand / Skin Protection:	No special hand protection required. Barrier gloves or protective clothing should be used to minimize contact with sensitive skin.

Section 9- Physical and Chemical Properties

Physical State:	Solid- Fibrous Powder
Color:	White
Odor:	Neutral
Thermal Decomposition:	Approximately 200°C
Auto-Ignition:	Approximately 500°C
pH:	Neutral to slightly acidic (5.0 – 7.5)
Melting point/melting range:	Does Not Apply
Boiling point / boiling range:	Does Not Apply
Flash Point:	Undetermined
Flammability:	Combustible but will not readily ignite
Explosion Hazard:	Explosive dust/air mixtures can form
Lower Explosion Limit:	Approximately 30 g/m ³
Upper Explosion Limit:	Undetermined
Oxidizing Characteristics:	Non-oxidizing
Vapor Pressure:	Does Not Apply
Vapor Density:	Does Not Apply
Density:	100-500 grams/Liter
Solubility in Water:	Insoluble in water
Solubility in Oil:	Insoluble in oil

Section 10- Stability and Reactivity

Conditions to Avoid:	Exposure to temperatures near or above 200°C Exposure to open flames
Materials to Avoid:	None
Hazardous Decomposition Products:	Thermal decomposition may produce CO and CO ₂

Section 11- Toxicological Information

Acute Toxicity:	No acute toxicity
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Chronic Exposure:	May lead to dermatitis or respiratory sensitization.
Specific Symptoms in Lab Animals:	Does Not Apply
Routes of Exposure / Symptoms:	Skin- may irritate sensitive skin Eyes- may irritate eyes Respiratory- may irritate respiratory system
Cancer, Mutagenicity, Reproductive Toxicity:	Not listed as a carcinogen. No current National Toxicology Program, IARC or OSHA involvement currently recorded. Not listed on the State of California Proposition 65 list of chemicals known to the State to cause cancer or reproductive toxicity.

Section 12- Ecological Information

Physical/Chemical Elimination

Material is insoluble in water. Remove from water mechanically.

Biodegradation:

Material will not biodegrade under conditions of typical current wastewater treatment technology.

PBT, vPvBT Assessment:

Material does not meet the criteria for classification as Persistent Bioaccumulative Toxic Chemical (PBT) or very Persistent very Bioaccumulative Toxic Chemical (vPvBT) under REACH regulations.

Harmful Effects:

No known harmful effects. Negative ecological effects are not expected.

Section 13- Disposal Considerations

Appropriate Disposal:

Dispose of in solid waste landfill in accordance with all applicable federal, state and local regulations.

Section 14- Transport Information

All Transports:

No limitations, special markings not required

Section 15- Regulatory (USA)

SARA Title III

Section 311 Hazard Categories (40CFR 370)- None
Material does not contain any toxic chemical subject to reporting under the requirements of Section 313- Reportable Ingredients

Toxic Substances Control Act (TSCA)

Cellulose 9004-34-6 is on TSCA List as an existing

J. RETTENMAIER USA LP



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chemical in US commerce. It is not subject to TSCA Pre-Market Notification requirements. There are no limitations on manufacture or use.

Canada Domestic Substance List (DSL)

Cellulose (CAS 9004-34-6) appears on the Canada Environmental Protection Agency Domestic Substance List (DSL).

State of California Proposition 65:

Not on the list of chemicals known to the State to cause cancer or reproductive toxicity.

Section 16- Other Information

Document Information:

Refer to document header