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MATERIAL SAFETY DATA SHEET

SECTION I: PRODUCT IDENTIFICATION

Product/Material: --- **Powdered Cellulose/Cellulose**

Commercial name: --- **Vitacel/ARBOCEL®**

CAS # (Cellulose): --- 9004-34-6

ACGIH TLV:---5 mg/m³ OSHA:--Total dust 15 mg/m³

HMS rating:

Health: --- 0 Flammability: --- 1

Reactivity: --- 0 Personal protection: --- "E"

SECTION II: HAZARDOUS INGREDIENTS

Cellulosic based fibers are considered a Nuisance Dust (HE19) and should be controlled as described under section VIII. Not listed as a carcinogen. No National Toxicology Program, IARC or OSHA involvement currently recorded. Listed under TSCA chemical inventory.

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point (°F): --- Not applicable.

Vapor pressure (mm Hg): --- Not applicable.

Vapor density: --- Not applicable.

Solubility in water: --- Insoluble.

Specific gravity (H₂O = 1): --- Variable. Dependent on wood species and moisture content

Reactivity in water: --- Not applicable. Density: --- approx. 1.5g/cm³. Melting point: --- Not applicable.

Appearance and odor: --- Finely divided or fibrous material depending on product. White or gray in color depending on product. No discernable odor.

SECTION IV: FIRE AND EXPLOSION DATA

Ignition temperature: --- approx. 932⁰F

Thermic decomposition: approx. 392⁰F

Extinguishing media: --- water, foam, CO₂, dry chemical powder.

Flammable limits: LEL --- not applicable. UEL --- not applicable.

Special fire fighting procedures: --- none.

Unusual fire and explosion hazards: --- none.

SECTION V: PHYSICAL HAZARDS (REACTIVITY)

Stability: --- Stable.

Conditions & Materials to avoid: ---- Products are organic and combustible.

Avoid extreme heat and open flame.

Hazardous decomposition products: --- Thermal Decomposition may produce CO and CO₂. Hazardous polymerization will not occur.

SECTION VI: HEALTH HAZARDS

Material is primarily a Nuisance dust to be controlled as described in section VIII. See physician if severe.

Routes of entry: --- Inhalation, ingestion and skin contact.

Effects of Overexposure: --- May irritate eyes and respiratory system. Remove to fresh air. Persons with respiratory problems should avoid breathing dust. In case of eye contact flush with copious amounts of water. Ingestion may cause vomiting or diarrhea. In case of broken skin, wear gloves. Wash dust from skin with soap and water. Chronic exposure may lead to dermatitis or respiratory sensitization.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions in handling and storage: --- **Do not store near heat or flame.** Store in original packaging and keep dry.

In case of spill: --- sweep or vacuum spills for recovery or disposal.

Waste Disposal: --- Dispose off in landfill as non-hazardous refuse in accordance with federal, state and local regulations.

SECTION VIII: CONTROL MEASURES

Respiratory protection: --- Use NIOSH approved respiratory mask for nuisance dust.

Eye protection: ---- Use goggles or safety glasses.

Hand protection: --- Wear gloves if skin is broken.

Other protective clothing: --- None.

Ventilation: --- Normal and adequate ventilation.

Work/Hygienic practices: Standard hygienic practices.