SAFETY DATA SHEET FORM

Cellu-Flo Fiber Filter Aid

Section 1 - PRODUCT and COMPANY IDENTIFICATION

1.1 Product Identifier
   - Product Name: Cellu-Flo Fiber Filter Aid
   - Chemical Name: Cellulose Fiber Aid
   - Synonyms: Cellulose Pulp

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Intended Product Use: Filtration
   - Uses Advised Against: Practice good housekeeping practices, avoid generating excessive airborne dust.

1.3 Details of the supplier of the safety data sheet
   - Manufacturer/Distributor: Gusmer Enterprises, Inc.
     - Postal Address: 81 M Street, Fresno, CA 93721 USA
     - Telephone Number: (01)(559) 485-2692 (USA) (product info)
     - Hours of Operation: Monday - Friday 8:00am-5:00pm PST

1.4 Emergency telephone number
   - Medical Emergency: 911
   - Chemical Emergency: (800) 424-9300

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
   - GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
     - Combustible Dust

2.2 Label Elements
   - Hazard Pictogram(s):
   - None
   - Signal Word: Warning
   - Hazard Statements:
     - May form combustible dust concentrations in air.
     - Precautionary Statements:
       - Avoid heat, sparks, flames and other ignition sources.
       - Ventilation recommended.

2.3 Emergency Overview
   - Appearance/Odor: White, fluffy, odorless powder
   - Other Hazards:
     - Warning: Product may form combustible dust concentrations in air during processing. Specifically, in instances where product dust is suspended in air in sufficient concentrations and in proximity to an ignition source, users of this product should examine the potential to generate dust during handling and processing and related combustibility hazards and controls.

Section 3 - COMPOSITION / INFORMATION on INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Common Name &amp; Synonyms</th>
<th>Percentage</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose Pulp</td>
<td>Kraft Pulp, Cotton Linter Pulp, Wood Fiber</td>
<td>&gt;99%</td>
<td>65996-61-4</td>
</tr>
<tr>
<td>FDA Approved resin binders and additives (graded CLS-131, CLS-138 &amp; CLS-236 only)</td>
<td>&lt; 1%</td>
<td>NA</td>
<td></td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

4.1 Description of the first aid measures
   - Eye Contact: Do not mechanically irritate the eyes, resulting in redness or watering. Treat dust in eye as foreign object. Flush with water to remove dust particles. Get medical help if irritation persists.
   - Skin Contact: Not expected to be an irritant under normal use, wash with mild soap and water. May cause a dryness sensation and difficulty occurs.
   - Inhalation: Primary route of exposure. Excessive dust concentrations may cause unpleasant obstruction in the nasal passages. Remove to fresh air. Get medical help if persistent irritation, severe coughing or breathing difficulty occurs.
   - Ingestion: Not harmful if ingested.

4.2 Most important symptoms and effects, both acute and delayed
   - Eye Contact: Cellulose dust can cause eye irritation.
   - Skin Contact: Prolonged skin contact may cause dryness.
   - Inhalation: May cause unpleasant obstruction in the nasal passages.
   - Ingestion: Not applicable for product in purchased form.

4.3 Indication of any immediate medical attention and special treatment needed
   - Treatment: No special advice, treat symptomatically.

Section 5 - FIREFIGHTING MEASURES

5.1 Extinguishing Media
   - Suitable Extinguishing Media: Water or other extinguishing agents appropriate for fighting surrounding fires.

5.2 Special hazards arising from the substance or mixture
   - Products of combustion include carbon monoxide, carbon dioxide and fine particulate in the form of smoke. Cellulose dust is combustible, and under certain circumstances may represent an explosion hazard.

5.3 Advice for firefighters
   - Airborne dust may be explosive. Depending on airborne concentration, moisture content, particle diameter, surface area and exposure to an ignition source, airborne cellulose dust may ignite and burn with explosive force in a contained area.
   - Cellulose dust may similarly deflagrate (combustion without detonation like a supersonic explosion) if ignited in an open or loosely contained area. Cellulose dust explosibility: $K_a$ dry = 300 and <300 bar m/s. Caution should be taken in the processing, shipping, handling and use of these materials, particularly if they are in a dry state and dust is produced. Reference NFPA standards 654, 69 and the NFPA Fire Protection Handbook for guidance.

$K_a$, the maximum rate of pressure rise is used to calculate the $K_a$ value, an internationally recognized index used to classify dust explosibility.
SAFETY DATA SHEET FORM

Cellu-Flo Fiber Filter Aid

Issue Date: 08/16/19
Version: 4.0

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Swepv or vacuum up for recovery and disposal. Avoid creating dust levels whenever feasible. Maintain good housekeeping to avoid accumulation of cellulose dust on exposed surfaces. Use NIOSH approved filtering face piece respirator ("dust mask") and goggles where ventilation is not possible and exposure limits may be exceeded or for additional worker comfort. Use personal protective equipment. Minimize compressed air blowdown or other practices that generate high dust levels.

6.2 Environmental precautions
None, discharge in accordance with federal, state and local laws.

6.3 Methods and materials for containment and cleaning up
If large amounts of dust are generated, collect with vacuum or suppress with water spray and sweep up. Avoid generating excessive airborne dust. See Section 8 for appropriate personal protective equipment.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid generating excessive dust. If dust levels are suspected to be over PEL, wear a NIOSH approved N95 or greater respirator. Protect from excessive moisture. Maintain good housekeeping practices. See Section 8 for more information.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool, dry place away from open flame and other sources of ignition. See Section 8 for OSHA permissible exposure limits.

Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>Control Parameters</th>
<th>OSHA PEL</th>
<th>ACGIH</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose (C_{6}H_{10}O_{5})_{n}</td>
<td>PEL-TWA 15 mg/m³ Total Dust (PNOR)</td>
<td>TLV-TWA 10 mg/m³ Total Dust</td>
<td>Not Established</td>
</tr>
<tr>
<td></td>
<td>PEL-TWA 5 mg/m³ Respirable Dust (PNOR)</td>
<td>PEL-TWA 10 mg/m³ Total Dust</td>
<td>PEL-TWA 5 mg/m³ Respirable Dust</td>
</tr>
</tbody>
</table>

Notes:
1. PNOR particulate not otherwise regulated (PNOR)

8.2 Exposure controls

Engineering Controls:
If necessary use ventilation system to keep airborne dust concentration below permissible exposure limits. Ventilation to control dust should be considered where potential explosive concentrations and ignition sources are present. The design and operation of any exhaust system should consider the possibility of explosive concentrations of cellulose dust within the system. Ensure that exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or suppression systems designed and operated in accordance with applicable standards if the operating conditions justify their use.

Respiratory Protection:
If dust levels are suspected to be over PEL, wear a NIOSH approved N95 or greater respirator.

Eye Protection:
ANSI Z87+ approved dust goggles or safety glasses, if necessary, to avoid eye irritation.

Skin Protection:
Cover skin with clothing and/or gloves if skin dryness or irritation occurs.

General Hygiene:
Maintain good housekeeping practices, wash hands after handling, avoid direct eye contact. Clean up areas where cellulose dust settles to avoid excessive accumulation of this combustible material. Minimize compressed air blowdown or other practices that generate high airborne-dust concentrations.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Fluffy powder</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Generally Odorless</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting / Freezing Point (Specify)</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Initial Boiling Point &amp; Boiling Range</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Combustible Soli, upper: No Data Available, inner: No Data Available</td>
</tr>
<tr>
<td>Explosive Limits</td>
<td>LEL: No Data Available, UEL: No Data Available, Kat: Cellulose dust &gt;200 and &lt;300 bar m/s</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Solubility (es)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient (octanol/water)</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>400°F - 500°F</td>
</tr>
<tr>
<td>Decomposition</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

Section 10 - STABILITY AND REACTIVITY

10.1 Reactivity
Not expected under normal conditions of use.

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
Not expected under normal conditions of use.

10.4 Conditions to avoid
Avoid open flame, sparks and other sources of ignition. Avoid excessive dust generation.

10.5 Incompatible materials
Strong oxidizing agents. Avoid open flame, sparks and other sources of ignition.

10.6 Hazardous decomposition products
Combustion products include carbon monoxide, carbon dioxide and fine particulate in the form of smoke.
Section 11 - TOXICOLOGY INFORMATION

11.1 Information on toxicological effects
Toxicology Data:
The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

<table>
<thead>
<tr>
<th>Toxicity Test</th>
<th>Exposure Route</th>
<th>Dose</th>
<th>Observed Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC₅₀ (rat)</td>
<td>Inhalation</td>
<td>5,800 mg/m³</td>
<td>Not Available</td>
</tr>
<tr>
<td>LD₅₀ (rat)</td>
<td>Oral</td>
<td>&gt; 5,000 mg/kg</td>
<td>Not Available</td>
</tr>
<tr>
<td>LD₅₀ (rabbit)</td>
<td>Dermal</td>
<td>&gt; 2,000 mg/kg</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

No Data Available

11.2 Further Information

| Productive Toxicity: | No Data Available |
| Carcinogenicity: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP, or IARC in their reviews. |
| IARC: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC. |
| ACGIH: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| NTP: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. |
| OSHA: | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |

Section 12 - ECOLOGICAL INFORMATION

12.1 Toxicity
No Data Available

12.2 Persistence and degradability
Cellulose fiber slowly biodegrades in water (half life range 1 month - 1 year in freshwater and coastal seawater.)

12.3 Bioaccumulative potential
Not expected to bioaccumulate.

12.4 Mobility in soil
Cellulose fiber persists in and soil (landfills).

12.5 Other adverse effects
No Data Available

Section 13 - DISPOSAL CONSIDERATIONS
Substance:
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - TRANSPORTATION INFORMATION

| UN Number: | Not Applicable |
| Class: | Not Applicable |
| Proper Shipping Name: | Not Applicable |
| Packing Group: | Not Applicable |
| Marine Pollutant: | Not Applicable |
| Other Applicable Information: | Not Applicable |

Section 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| SARA 302: | No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA 313: | This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313. |
| SARA 311/312: | No SARA Hazards |
| California Prop. 65 Components: | This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm. |

Section 16 - OTHER INFORMATION

| Prepared By: | Gusmer Enterprises, Inc. |
| Name of Preparer: | Eric Anderson |
| Title: | Corporate Safety & Regulatory Manager |
| Date: | 8/16/2019 |

DISCLAIMER: While the information in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors or omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, we can accept no responsibility for any loss or damage caused by any person acting or refraining from acting as a result of this information.

Cellu-Flo Fiber Filter Aid Warning: May form combustible dust concentrations in air.

Gusmer Enterprises Inc.
811 M St. Fresno, CA 93722 (559) 485-2692
1401 Wore Street, Waupaca, WI 54981 (715) 258-5525
CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD

GUSMER ENTERPRISES INC
811 M St. Fresno, CA 93722 (559) 485-2692
1401 Wore Street, Waupaca, WI 54981 (715) 258-5525
CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD