Gusmer Enterprises, Inc.®

Issue Date: 02/21/20
Version: 1.0

SAFETY DATA SHEET FORM

Cellu-Flo Milled Fiber Filter Aid

Section 1 - PRODUCT and COMPANY IDENTIFICATION

1.1 Product Identifier

Product Name: Cellu-Flo Milled Fiber Filter Aid
Product Code(s): CFDEX-25LB, CF-Dexter, CF-Fiber Media, CLR-128, CLR-138, CLR-156, CLR-236 SL-138, SL-156, SL-299

Chemical Name: Cellulose Pulp
Synonyms: Cellulose Filter Aids

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	1401 Ware Street, Waupaca, WI 54981 USA
Telephone Number:	(01)(559) 485-2692 [USA] (product info)	(01)(715) 258-5525 [USA] (product info)
Hours of Operation:	Monday - Friday 8:00am-5:00pm PST	Monday - Friday 8:00am-5:00pm CST

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.
Prevent dust accumulations to minimize explosion hazard.
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 dusts during handling and processing and related combustibility hazards and controls.

The primary health hazard posed by this product is thought to be due to exposure to cellulose dusts (reference "Section 8" below).
Cellulose dust may aggravate pre-existing respiratory conditions or allergies.

Section 3 - COMPOSITION / INFORMATION on INGREDIENTS

Ingredient(s)	Common Name & Synonyms	Percentage	CAS No.
Cellulose Pulp	Kraft Pulp, Cotton Linter Pulp, Wood Fiber	100%	65996-61-4

Section 4 - FIRST AID MEASURES

4.1 Description of the first aid measures

Eye Contact: Dust may 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.
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.

Acute Effects: Transitory upper respiratory tract irritation.
Chronic Effects: Not applicable

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

As in any fire, wear NIOSH-approved self contained breathing apparatus and appropriate protective clothing.

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_{st} dry = >200 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_{st} the maximum rate of pressure rise is used to calculate the *K_{st} value; an internationally recognized index used to classify dust explosibility.

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Section 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Sweep or vacuum up for recovery and disposal. Avoid creating dusty conditions 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.
Other precautions: 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 limit(s)

Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

	OSHA PEL[1]	ACGIH[2]	NIOSH REL[3]
Cellulose ($C_6H_{10}O_5)_n$	PEL-TWA 15 mg/m^3 Total Dust (PNOR)[1]	TLV-TWA 10 mg/m^3 Total Dust	REL-TWA 10 mg/m^3 Total Dust
	PEL-TWA 5 mg/m^3 Respirable Dust (PNOR)[1]	Not Established	REL-TWA 5 mg/m^3 Respirable Dust

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

8.2 Exposure controls

Normal Handling Conditions

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

Physical State:	Fluffy powder		
Color:	White		
Odor:	Generally Odorless		
Odor Threshold:	None		
pH:	No Data Available		
Melting / Freezing Point (Specify):	No Data Available		
Initial Boiling Point & Boiling Range:	No Data Available		
Flash Point:	No Data Available		
Evaporation Rate:	No Data Available		
Flammability (solid, gas):	Combustible Solid	upper: No Data Available	lower: No Data Available
Explosive Limits:	LEL: No Data Available	UEL: No Data Available	Kst: Cellulose dust >200 and <300 bar m/s
Vapor Pressure:	No Data Available		
Vapor Density:	No Data Available		
Relative Density:	No Data Available		
Solubility(ies):	Insoluble		
Partition Coefficient (n-octanol/water):	No Data Available		
Auto-ignition Temperature:	400°F - 500°F		
Decomposition	No Data Available		
Oxidizing Properties:	No Data Available		
Viscosity:	No Data Available		

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.

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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.

	Toxicity Test	Exposure Route	Dose	Observed Effect
Acute Toxicity:				
Cellulose	LC_{50} (rat)	Inhalation	5,800 mg/m^3	Not Available
	LD_{50} (rat)	Oral	> 5,000 mg/kg	Not Available
	LD_{50} (rabbit)	Dermal	> 2,000 mg/kg	Not Available

Skin Corrosion/Irritation: No Data Available

Serious Eye Damage/Eye Irritation: No Data Available

Respiratory or Skin Sensitization: No Data Available

STOT - Single Exposure: No Data Available

STOT - Repeated Exposure: No Data Available

Aspiration Hazard: No Data Available

11.2 Further Information

Mutagenicity: No Data Available

Productive Toxicity: No Data Available

Carcinogenicity: Cellulose is not classified as a 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 arid 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

Product Number(s):

CF Series Item Numbers: CFDEX-25LB, CF-Dexter, CF-Fiber Media,
CLR Series Item Numbers: CLR-128, CLR-138, CLR-156, CLR-236
SL Series Item Numbers: SL-138, SL-156, SL-299

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Date: 2/21/2020

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GHS Hazard Warning Label

Cellu-Flo Fiber Filter Aid

Warning: May form combustible dust concentrations in air.

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CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD