



Gusmer Enterprises, Inc.®

Issue Date: 05/11/15
Version: 1.0

SAFETY DATA SHEET FORM

Product Identifier:

Gusmer Cellulose Filter Sheet

Section 1 - PRODUCT and COMPANY IDENTIFICATION

1.1 Product Identifier

Product Name: Gusmer Cellulose Filter Sheet
 Product Code(s): 1120
 1305, 1310, 1315, 2315P, 1315BS, 1320, 2320P, 1325, 2325P, 1330, 2330P, 1330OT, 1335, 2335P, 1340, 2340P, 1345, 2345P, 1350, 2350P, 1355
 Filtermass (Special 29. 44, 200), Zetak Filtermass 125
 Chemical Name: Mixture
 Synonyms: Cellulose Filter Sheet

1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended Product Use: Filtration
 Uses Advised Against: To avoid exposure to airborne dust, do not damage or abrade filter material.

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)

This product, as shipped, is not regulated as an OSHA hazardous material when used in its normal state and use.

2.2 Label Elements

Hazard Pictogram(s): None Signal Word: NA
 Hazard Statements: NA Precautionary Statements: NA

2.3 Emergency Overview

Appearance/Odor: White to buff colored filter sheets, generally odorless.

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. Product as supplied and shipped does not constitute a dust hazard. 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	80%-100%	65996-61-4
FDA Approved resin binders and additives		< 3%	NA

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 anticipated to be irritating for product in purchased form, wash with mild soap and water.
 Inhalation: 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 applicable for product in purchased form.

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.

Chronic Effects: Not applicable

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No special advice, treat symptomatically.



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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.

5.3 Advice for firefighters

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

Product as supplied and shipped is highly unlikely to release sufficient cellulose dust to constitute a combustible dust explosion hazard. 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.

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.

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 (C₆H₁₀O₅)_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.

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Section 9 - PHYSICAL and CHEMICAL PROPERTIES																				
<p>9.1 Information on basic physical and chemical properties</p> <p>Physical State: Solid</p> <p>Color: White to buff colored filter sheet</p> <p>Odor: Generally Odorless</p> <p>Odor Threshold: None</p> <p>pH: No Data Available</p> <p>Melting / Freezing Point (Specify): No Data Available</p> <p>Initial Boiling Point & Boiling Range: No Data Available</p> <p>Flash Point: No Data Available</p> <p>Evaporation Rate: No Data Available</p> <p>Flammability (solid, gas): upper: No Data Available lower: No Data Available</p> <p>Explosive Limits: LEL: No Data Available UEL: No Data Available Kst: Cellulose dust >200 and <300 bar m/s</p> <p>Vapor Pressure: No Data Available</p> <p>Vapor Density: No Data Available</p> <p>Relative Density: No Data Available</p> <p>Solubility(ies): No Data Available</p> <p>Partition Coefficient (n-octanol/water): No Data Available</p> <p>Auto-ignition Temperature: No Data Available</p> <p>Decomposition: No Data Available</p> <p>Oxidizing Properties: No Data Available</p> <p>Viscosity: No Data Available</p>																				
Section 10 - STABILITY and REACTIVITY																				
<p>10.1 Reactivity No Data Available</p> <p>10.2 Chemical stability Stable under recommended storage conditions.</p> <p>10.3 Possibility of hazardous reactions None</p> <p>10.4 Conditions to avoid Avoid open flame, sparks and other sources of ignition.</p> <p>10.5 Incompatible materials Avoid open flame, sparks and other sources of ignition.</p> <p>10.6 Hazardous decomposition products Combustion products include carbon monoxide, carbon dioxide and fine particulate in the form of smoke.</p>																				
Section 11 - TOXICOLOGY INFORMATION																				
<p>11.1 Information on toxicological effects</p> <p>Toxicology Data: The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Acute Toxicity:</th> <th style="text-align: left;">Toxicity Test</th> <th style="text-align: left;">Exposure Route</th> <th style="text-align: left;">Dose</th> <th style="text-align: left;">Observed Effect</th> </tr> </thead> <tbody> <tr> <td rowspan="3" style="vertical-align: top;"><i>Cellulose</i></td> <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>> 5,000 mg/kg</td> <td>Not Available</td> </tr> <tr> <td>LD₅₀ (rabbit)</td> <td>Dermal</td> <td>> 2,000 mg/kg</td> <td>Not Available</td> </tr> </tbody> </table> <p>Skin Corrosion/Irritation: No Data Available</p> <p>Serious Eye Damage/Eye Irritation: No Data Available</p> <p>Respiratory or Skin Sensitization: No Data Available</p> <p>STOT - Single Exposure: No Data Available</p> <p>STOT - Repeated Exposure: No Data Available</p> <p>Aspiration Hazard: No Data Available</p> <p>11.2 Further Information</p> <p>Mutagenicity: No Data Available</p> <p>Productive Toxicity: No Data Available</p> <p>Carcinogenicity: Cellulose is not classified as a carcinogen by OSHA, NTP, or IARC in their reviews.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>			Acute Toxicity:	Toxicity Test	Exposure Route	Dose	Observed Effect	<i>Cellulose</i>	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
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Section 12 - ECOLOGICAL INFORMATION	
<p> 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 </p>	
Section 13 - DISPOSAL CONSIDERATIONS	
<p> Substance: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. </p>	
Section 14 - TRANSPORTATION INFORMATION	
<p> 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 </p>	
Section 15 - REGULATORY INFORMATION	
<p> 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. </p>	
Section 16 - OTHER INFORMATION	
<p> Product Number(s): 1100 Filter Sheet Series Item Numbers: 1120 1300 Filter Sheet Series Item Numbers: 1305, 1310, 1315, 2315P, 1315BS, 1320, 2320P, 1325, 2325P, 1330, 2330P, 1330OT, 1335, 2335P, 1340, 2340P, 1345, 2345P, 1350, 2350P, 1355 Special Filtermass Item Numbers: 29, 44, 200 Zetak Filtermass Item Number(s): 125 </p> <p> Prepared By: Gusmer Enterprises, Inc. Name of Preparer: Eric Anderson Title: Safety, Compliance & GMP Manager Date: 5/11/2015 </p>	
<p> 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. </p>	
<p> GHS Hazard Warning Label No Hazard Warning Label Required: Not considered a hazardous material when used in its normal state and use. </p>	