




	Gusmer Enterprises, Inc.®		Issue Date: 05/19/15
			Version: 1.0
SAFETY DATA SHEET FORM			
Product Identifier:		Gusmer Cellu-Stack® Filters with Glass & Acrylic	
Section 1 - PRODUCT and COMPANY IDENTIFICATION			
<p>1.1 Product Identifier Product Name: Gusmer Cellu-Stack® Filters with Glass & Acrylic Product Code(s): 12XXX1330AO, 12XXX1330GO Chemical Name: Mixture Synonyms: Cellu-Stack®</p> <p>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.</p> <p>1.3 Details of the supplier of the safety data sheet Manufacturer/Distributor: Gusmer Enterprises, Inc.</p> <p>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</p> <p>1.4 Emergency telephone number Medical Emergency: 911 Chemical Emergency: (800) 424-9300</p>			
Section 2 - HAZARDS IDENTIFICATION			
<p>2.1 Classification of the substance or mixture: Not considered a hazardous material when used in its normal state and use. This product does not release respirable dust when used in its normal state and uses; however this product does contain man-made vitreous (silicate) fibers, which is considered a hazard by inhalation. GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Carcinogenicity (Category 2)</p> <p>2.2 Label Elements Hazard Pictogram(s):  Signal Word: Warning</p> <p>Hazard Statements: Suspected of causing cancer by inhalation.</p> <p>Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/ container to an approved waste disposal plant.</p> <p>2.3 Emergency Overview Appearance/Odor: White to buff colored filter media with white talc-filled polypropylene edge seals, natural polypropylene spacers, natural and synthetic rubber gaskets. Generally odorless Other Hazards: Warning: This product does not release respirable dust when used in its normal state and uses; however this product does contain man-made vitreous fibers, which are considered a hazard by inhalation. NTP has classified inhalation of man-made vitreous fibers as reasonably anticipated to be a human carcinogen.</p>			
Section 3 - COMPOSITION / INFORMATION on INGREDIENTS			
Ingredient(s)	Common Name & Synonyms	Percentage	CAS No.
Cellulose Pulp	Kraft Pulp, Cotton Linter Pulp	80-90%	65996-61-4
Man-made vitreous (silicate) fibers w/ random orientation w/ alkaline oxide & alkali earth content > 18% by wt.	NA	7-9%	NA
Acrylic Copolymer	NA	1-3%	24980-62-9
FDA Approved resin binders and additives		< 2%	NA
Note: Polypropylene components are not included as they are not considered hazardous in a molded form.			
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. Use moisture renewing lotions if dryness occurs.		
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:	Dust may cause abrasive irritation to eyes.		
Skin Contact:	Prolonged skin contact may cause dryness.		
Inhalation:	Dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. See section 11 for additional information.		
Ingestion:	Not applicable for product in purchased form.		
Chronic Effects:	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects		
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			
<p>5.1 Extinguishing Media Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</p> <p>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. Silicon Oxides</p> <p>5.3 Advice for firefighters As in any fire, wear NIOSH-approved self contained breathing apparatus and appropriate protective clothing.</p> <p>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.</p>			
Section 6 - ACCIDENTAL RELEASE MEASURES			
<p>6.1 Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes. 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.</p> <p>6.2 Environmental precautions None, discharge in accordance with federal, state and local laws.</p> <p>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.</p>			
Section 7 - Handling and Storage			
<p>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</p> <p>7.2 Conditions for safe storage, including any incompatibilities Store in cool, dry place away from open flame and other sources of ignition.</p> <p>See Section 8 for OSHA permissible exposure limit(s)</p>			
Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION			
8.1 Control parameters			
	OSHA PEL¹	ACGIH²	NIOSH REL³
Cellulose (C₆H₁₀O₅)_n	PEL-TWA 15 mg/m ³ Total Dust (PNOR) ¹ PEL-TWA 5 mg/m ³ Respirable Dust (PNOR) ¹	TLV-TWA 10 mg/m ³ Total Dust Not Established	REL-TWA 10 mg/m ³ Total Dust REL-TWA 5 mg/m ³ Respirable Dust
Man-made vitreous (silicate) fibers w/ random orientation w/ alkaline oxide & alkali earth content > 18% by wt.	PEL-TWA 15 mg/m ³ Total Dust PEL-TWA 5 mg/m ³ Respirable Dust Voluntary TWA = 1 f/cc, Respirable fibers, under a voluntary health and safety partnership program.	Not Established TLV - TWA 1 fiber/cm ³ Respirable fraction	REL-TWA 5 mg/m ³ Total Dust REL-TWA 3 fibers/cm ³ Respirable Dust
<p>Notes: 1. OSHA particulate not otherwise regulated (PNOR)</p>			
8.2 Exposure controls			
Engineering Controls:	<p>Normal Handling Conditions</p> <p>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.</p> <p>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.</p>		
Respiratory Protection:	<p>If dust levels are suspected to be over PEL, wear a NIOSH approved N95 or greater respirator.</p>		
Eye Protection:	<p>ANSI Z87+ approved dust goggles or safety glasses, if necessary, to avoid eye irritation.</p>		
Skin Protection:	<p>Cover skin with clothing and/or gloves if skin dryness or irritation occurs.</p>		
General Hygiene:	<p>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.</p>		

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Section 9 - PHYSICAL and CHEMICAL PROPERTIES				
9.1 Information on basic physical and chemical properties				
Physical State:	Solid			
Color:	White to buff colored filter media with white talc-filled polypropylene edge seals, natural polypropylene spacers, natural and synthetic rubber gaskets.			
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):	upper: No Data Available	lower: No Data Available		
Explosive Limits:	LEL: No Data Available	UEL: No Data Available		
Vapor Pressure:	No Data Available			
Vapor Density:	No Data Available			
Relative Density:	No Data Available			
Solubility(ies):	No Data Available			
Partition Coefficient (n-octanol/water):	No Data Available			
Auto-ignition Temperature:	about 765°F (407°C)			
Decomposition:	Cellulose and polypropylene components will degrade at temperatures >400°F (204°C).			
Oxidizing Properties:	No Data Available			
Viscosity:	No Data Available			
Kst: Cellulose dust explosibility: (*Kst dry = >200 and <300 bar m/s)				
Section 10 - STABILITY and REACTIVITY				
10.1 Reactivity No Data Available				
10.2 Chemical stability Stable under recommended storage conditions.				
10.3 Possibility of hazardous reactions None				
10.4 Conditions to avoid Avoid open flame, sparks and other sources of ignition.				
10.5 Incompatible materials 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.			
	Toxicity Test	Exposure Route	Dose	Observed Effect
Acute Toxicity: <i>Cellulose</i>	LD 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:	May cause irritation through mechanical abrasion.			
Serious Eye Damage/Eye Irritation:	Product dust or powder may cause mechanical eye irritation			
Respiratory or Skin Sensitization:	Acute: Exposure to dust may cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible. Chronic: Prolonged exposure to the dust may cause wheezing, chest tightness, productive cough nasal irritation and symptoms of chronic respiratory disease. Dust may also induce asthmatic reactions via an allergic mechanism, particularly in individuals who are predisposed to developing allergies.			
STOT - Single Exposure:	No Data Available			
STOT - Repeated Exposure:	May cause damage to lungs through prolonged or repeated exposure.			
Aspiration Hazard:	No Data Available			
11.2 Further Information				
Mutagenicity:	No Data Available			
Productive Toxicity:	No Data Available			
Carcinogenicity:	Man-made vitreous fibers are suspected of causing cancer by inhalation			
IARC:	3 - Group 3: Not classifiable as to its carcinogenicity to humans (synthetic vitreous fibers)			
NTP:	Reasonably anticipated to be a human carcinogen			

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Section 12 - ECOLOGICAL INFORMATION			
12.1 Toxicity No Data Available 12.2 Persistence and degradability Non-biodegradable material, inert material 12.3 Bioaccumulative potential Little Potential to bioaccumulate. 12.4 Mobility in soil No Data Available 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 TSCA: Listed CERCLA: Not listed 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 California Prop. 65 Components: WARNING! This product contains a chemical known to the State of California to cause cancer.			
Section 16 - OTHER INFORMATION			
Product Codes/Number(s): Gusmer Cellu-Stack® Filters with Glass & Acrylic Item Numbers: 12XXXX1330AO, 12XXXX1330GO Prepared By: Gusmer Enterprises, Inc. Name of Preparer: Eric Anderson Title: Safety, Compliance & GMP Manager Date: 5/19/2015			
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GHS Hazard Warning Label			
<div style="border: 1px solid black; padding: 10px;"> <p>Gusmer Cellu-Stack® Filters with Glass & Acrylic</p>  <p>Warning: Suspected of causing cancer by inhalation.</p> <p>Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. IF exposed or concerned: Get medical advice/attention. Store locked up, dispose of contents/ container to an approved waste disposal plant.</p> <p>Gusmer Enterprises Inc. 81 M St. Fresno, CA 93721 (559) 485-2692 1401 Ware Street, Waupaca, WI 54981 (715) 258-5525 CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD</p> <p style="text-align: right;">V1.0</p> </div>			