

	Gusmer Enterprises, Inc.[®]	Issue Date: 05/11/15 Version: 1.0	
SAFETY DATA SHEET FORM			
Product Identifier:		Gusmer Cellulose Carbon Filter Sheet with Flux Calcined DE	
Section 1 - PRODUCT and COMPANY IDENTIFICATION			
<p>1.1 Product Identifier</p> Product Name: Gusmer Cellulose Carbon Filter Sheet with Flux Calcined DE Product Code(s): 1640DC EO20 SSBJ3 Chemical Name: Mixture Synonyms: Cellulose Filter Sheet			
<p>1.2 Relevant identified uses of the substance or mixture and uses advised against</p> Intended Product Use: Filtration Uses Advised Against: To avoid exposure to airborne dust, do not damage or abrade filter material.			
<p>1.3 Details of the supplier of the safety data sheet</p> 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	
<p>1.4 Emergency telephone number</p> Medical Emergency: 911 Chemical Emergency: (800) 424-9300			
Section 2 - HAZARDS IDENTIFICATION			
<p>2.1 Classification of the substance or mixture:</p> 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 crystalline silica (CS), which is considered a hazard by inhalation. GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Carcinogenicity (Category 1A) Specific target organ toxicity - repeated exposure, inhalation (Category 1)			
<p>2.2 Label Elements</p>			
Hazard Pictogram(s): 	Signal Word: Danger		
Hazard Statements: May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated exposure if inhaled.	Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. 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. Ventilation recommended.		
<p>2.3 Emergency Overview</p> Appearance/Odor: Black, carbon-impregnated filter sheets, generally odorless.			
<p>Other Hazards: Warning: This product does not release respirable dust when used in its normal state and uses; however this product does contain crystalline silica (CS), which is considered a hazard by inhalation. IARC has classified inhalation of CS as carcinogenic for humans. CS is listed by NTP as a known human carcinogen. Inhalation of CS is also a known cause of silicosis, a noncancerous lung disease.</p> <p>Activated carbon (especially when wet) can deplete oxygen from air in enclosed spaces, and dangerously low levels of oxygen may result. Prior to entering a confined space that contains or previously contained activated carbon, the space should be evaluated for oxygen and carbon monoxide concentrations, and any other hazards, by a qualified person.</p> <p>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.</p>			
Section 3 - COMPOSITION / INFORMATION on INGREDIENTS			
Ingredient(s)	Common Name & Synonyms	Percentage	CAS No.
Cellulose Pulp	Kraft Pulp, Cotton Linter Pulp	35-70%	65996-61-4
Activated Carbon	Charcoal Black	15-40%	7440-44-0
Diatomaceous Earth, Flux-Calcined	DE	10-20%	68855-54-9
Cristobalite	Silica Crystalline, Tridymite	≤ 10%	14464-46-1
Quartz	Silica, Crystalline Quartz	< 1%	14808-60-7
FDA Approved resin binders and additives		< 2%	NA

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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 of respirable dust containing silica may cause a progressive lung disease, silicosis and lung cancer. See section 11 for additional information. Ingestion: Not applicable for product in purchased form. Chronic Effects: Silicosis	
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: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable Extinguishing Media: DO NOT USE a solid water stream as it may scatter and spread fire. In the event of a fire, spreading large amounts of activated carbon is not recommended due to the risk of creating uncontrolled dust emissions.	
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	
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). Activated carbon explosibility: (*K _{st} 105 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 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.	
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)	



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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 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
Activated Carbon:	PEL-TWA 15 mg/m ³ Total Dust PEL-TWA 5 mg/m ³ Respirable Dust	TLV-TWA 10 mg/m ³ Total Dust TLV-TWA 3 mg/m ³ Respirable Dust	Not Established Not Established
Diatomaceous Earth, Flux-Calcined:	PEL-TWA 15 mg/m ³ Total Dust PEL-TWA 5 mg/m ³ Respirable Dust	Not Established Not Established	Not Established Not Established
Cristobalite:	TWA Total Dust = ½[(30mg/m ³)/(%SiO ₂ +2)] TWA Respirable Dust = ½[(10mg/m ³)/(%SiO ₂ +2)]	Not Established 0.025 mg/m ³ Respirable Dust	Not Established 0.05 mg/m ³ Respirable Dust
Quartz:	TWA Total Dust = ½[(30mg/m ³)/(%SiO ₂ +2)] TWA Respirable Dust = ½[(10mg/m ³)/(%SiO ₂ +2)]	Not Established 0.025 mg/m ³ Respirable Dust	Not Established 0.05 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:	Solid		
Color:	Black colored filter sheet		
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	Kst: Cellulose dust >200 and <300 bar m/s; Activated Carbon 105 bar m/s
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:	No Data Available		
Decomposition:	No Data Available		
Oxidizing Properties:	No Data Available		
Viscosity:	No Data Available		

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

Strong oxidizing agents, strong acids. 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: <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
<i>Activated Carbon</i>	LC50 (rat)	Inhalation	1h > 8.5mg/l	Not Available
	LD50 (rat)	Oral	> 2000 mg/kg	Not Available

Skin Corrosion/Irritation: No Data Available

Serious Eye Damage/Eye Irritation: No Data Available

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. Acute inhalation of high concentrations of respirable crystalline silica may cause acute silicosis.
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: Flux-Calcined diatomaceous earth (Kieselguhr) is composed of amorphous and crystalline silica. Respirable crystalline silica (cristobalite) is classified by the IARC and NTP as a known human carcinogen. Crystalline silica is only known to cause cancer when inhaled in a respirable form. It is not known to cause cancer by any other route of exposure.

IARC: 1 - Group 1: Carcinogenic to humans (Cristobalite)

IARC: 1 - Group 1: Carcinogenic to humans (Quartz)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Diatomaceous earth)

NTP: Known to be human carcinogen (Cristobalite)

NTP: Known to be human carcinogen (Quartz)

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

TSCA: Diatomaceous Earth and Cristobalite appear on the EPA TSCA inventory list.

CERCLA: Diatomaceous Earth is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.

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: Chronic Health Hazard

California Prop. 65 Components:

WARNING! This product contains crystalline silica, a chemical known to the State of California to cause cancer.

WHMIS Classification: Class D-2-A

WHMIS Ingredient Disclosure List: Silica, crystalline, cristobalite



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Section 16 - OTHER INFORMATION**Product Number(s):**

1600 Filter Sheet Series Item Numbers: 1640DC

Edible Oil Filter Media Series: EO20, SSBJ3

Prepared By: Gusmer Enterprises, Inc.**Name of Preparer:** Eric Anderson**Title:** Safety, Compliance & GMP Manager**Date:** 5/11/2015

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GHS Hazard Warning Label**Gusmer Cellulose Carbon Filter Sheet with Flux Calcined DE****DANGER:**

May cause cancer by inhalation.

Causes damage to lungs through prolonged or repeated exposure if inhaled

Obtain special instructions before use. Do not breathe dust.

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.

Ventilation recommended.

Gusmer Enterprises Inc.

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CONSULT SDS FOR ADDITIONAL INFORMATION ON HAZARD

V1.0