



SAFETY DATA SHEET

Gusmer Cellulose Filter Sheet with Natural DE & Perlite

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.

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
Diatomaceous Earth, Natural	TWA Total Dust (80 mg/m ³)/(%SiO ₂)	Not Established	5 mg/m ³
	Not Established	Not Established	Not Established
Perlite, expanded	PEL-TWA 15 mg/m ³ Total Dust (PNOR) ¹	Not Established	REL-TWA 5 mg/m ³ Respirable Dust
	PEL-TWA 5 mg/m ³ Respirable Dust (PNOR) ¹	Not Established	REL-TWA 10 mg/m ³ Total 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.



SAFETY DATA SHEET

Gusmer Cellulose Filter Sheet with Natural DE & Perlite

Section 9 - PHYSICAL and CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State:	Solid		
Color:	White to buff 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	
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):	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

Avoid open flame, sparks and other sources of ignition. Products containing silica may react violently with hydrofluoric acid and strongly basic solutions.

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.

Acute Toxicity:	Toxicity Test	Exposure Route	Dose	Observed Effect
<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: 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: Not classified as a carcinogen by OSHA, NTP, or IARC in their reviews.

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

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.



SAFETY DATA SHEET

Gusmer Cellulose Filter Sheet with Natural DE & Perlite

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, Natural appears on the EPA TSCA inventory list.**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:**

 **WARNING:** This product can expose you to Crystalline Silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Section 16 - OTHER INFORMATION

Product Number(s):

CSF Filter Sheet Series Item Number(s): CSFXC

Prepared By: Gusmer Enterprises, Inc.**Name of Preparer:** Eric Anderson**Title:** Director of Safety & Product Compliance**Date:** 5/25/2023

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.

GHS Hazard Warning Label

No Hazard Warning Label Required:

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