



## SAFETY DATA SHEET FORM

## Cellu-Flo RW-40 &amp; RW-100 Filter Aid

## Section 1 - PRODUCT and COMPANY IDENTIFICATION

## 1.1 Product Identifier

Product Name: Cellu-Flo RW 40 Filter Aid  
Cellu-Flo RW 100 Filter Aid  
Product Code(s): RW40  
RW100

Chemical Name: Powdered Cellulose  
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	Dietary fiber made from the fibrous parts plants	100%	9004-34-6

## 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<sub>st</sub> 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<sub>st</sub> the maximum rate of pressure rise is used to calculate the \*K<sub>st</sub> value; an internationally recognized index used to classify dust explosibility.



## SAFETY DATA SHEET FORM

## Cellu-Flo RW-40 &amp; RW-100 Filter Aid

## 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**

Material is combustible. In case of open handling, use respiratory protection. Explosive dust/air mixtures may form. Provide sufficient ventilation. Provide local aspiration where dust is likely to occur. Accumulated dust should be immediately vacuumed.

**7.2 Conditions for safe storage, including any incompatibilities**

Material is combustible. Do not store near heat or open flame. Store in original packaging. Keep dry. Material is stable for five years when stored under these conditions.

See Section 8 for OSHA permissible exposure limit(s)

## Section 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

**8.1 Control parameters**

Cellulose (C<sub>6</sub>H<sub>10</sub>O<sub>5</sub>)<sub>n</sub>

OSHA PEL<sup>1</sup>

PEL-TWA 15 mg/m<sup>3</sup> Total Dust (PNOR)<sup>1</sup>

PEL-TWA 5 mg/m<sup>3</sup> Respirable Dust (PNOR)<sup>1</sup>

ACGIH<sup>2</sup>

TLV-TWA 10 mg/m<sup>3</sup> Total Dust

Not Established

NIOSH REL<sup>3</sup>

REL-TWA 10 mg/m<sup>3</sup> Total Dust

REL-TWA 5 mg/m<sup>3</sup> 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: 392°F

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.



## SAFETY DATA SHEET FORM

## Cellu-Flo RW-40 &amp; RW-100 Filter Aid

## 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
<b>Acute Toxicity:</b> Cellulose	LC <sub>50</sub> (rat)	Inhalation	5,800 mg/m <sup>3</sup>	Not Available
	LD <sub>50</sub> (rat)	Oral	> 5,000 mg/kg	Not Available
	LD <sub>50</sub> (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):** RW40  
RW100

**Prepared By:** Gusmer Enterprises, Inc.

**Name of Preparer:** Eric Anderson

**Title:** Corporate Safety & Regulatory Manager

**Date:** 8/19/2019

**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

## Cellu-Flo RW-40 &amp; RW-100 Filter Aid

**Warning:** May form combustible dust concentrations in air.

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**