

# Safety Data Sheet

## Paper Packaging Material

### 1. Product Identification

TRADE NAME: Corrugated packaging and displays

CHEMICAL NAME/CLASS: Cellulose Paper Packaging

MANUFACTURER'S NAME:

ADDRESS:

EMERGENCY PHONE:

BUSINESS PHONE:

### 2. Hazard Identification

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous as the result of downstream activities (e.g. cutting, processing) that reduces its particle size resulting in the potential hazards described below.

**Classification of the Substance or Mixture (OSHA HCS 2012): Combustible Dust**

**Signal Word:** WARNING

**Pictogram:** None

**Hazard Statement:** If converted to small particles during further processing, handling, or by other means, product may form combustible dust concentrations in air.

**Other Hazards:** Exposure to airborne paper dust may cause eye or respiratory tract irritation.

**Precautionary Statement(s):**

Prevention Statements: Caution should be taken in the processing, shipping, handling and use of these materials to prevent the generation and accumulation of combustible dust. Keep away from sparks, flame or other heat sources and take precautionary measures against static discharge.

**Ingredients of Unknown Acute Toxicity (>1%):** Not available

### 3. Composition/Information on Ingredients

Name	Product Identifier	% (w/w)
Cellulose	(CAS No) 65996-61-4	96 - 99
Corn Starch	(CAS No) 9005-25-8	1 - 4

#### 4. First Aid Measures

<b>Ingestion:</b>	Not likely to occur for product during normal use.
<b>Eye Contact:</b>	Paper 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. Seek medical attention if irritation persists.
<b>Skin Contact:</b>	Not anticipated for product in purchased form, wash with mild soap and water.
<b>Skin Absorption:</b>	Product is not absorbed through the skin.
<b>Inhalation:</b>	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.
<b>Chronic Symptoms:</b>	None expected under normal use.
<b>Note to Physician:</b>	No special advice, treat symptomatically.

#### 5. Fire-Fighting Measures

<b>Flash Point (Method Used):</b>	Not available for finished product.
<b>Autoignition Temperature:</b>	450 °F
<b>Special Fire and Explosion Hazards:</b>	Processing paper product may release cellulose fibers into the air. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion. Keep dust levels to a minimum and follow applicable regulations. Reference NFPA standards 654, 69 and the NFPA Fire Protection Handbook for guidance.
<b>Reactivity:</b>	Hazardous reactions will not occur under normal conditions.
<b>Extinguishing Media:</b>	Ordinary Combustible. Use water, dry chemical, carbon dioxide or foam as appropriate for surrounding fire.
<b>Precautionary Measures for Fire: Protection during Firefighting</b>	Exercise caution when fighting any paper fire. Do not enter fire area without proper protective equipment, including respiratory protection.
<b>Hazardous Combustion Products:</b>	Carbon oxides (CO, CO <sub>2</sub> ), fine particulates.

#### 6. Accidental Release Measures

**Steps to be Taken In Case Material Is Released or Spilled:** Contain and collect as any solid. Sweep or vacuum for recovery and disposal. Avoid cleaning with compressed air or other methods that can generate airborne dust. Maintain good housekeeping to avoid dust accumulation. Use NIOSH approved filtering face piece respirator ("dust mask") where ventilation is not possible and exposure limits may be exceeded.

#### 7. Handling and Storage

**Precautions to be Taken in Handling and Storage:** Keep products in a cool, dry place away from open flame and other sources of ignition. Paper dust may pose a combustible dust hazard. Minimize dust generation and accumulation. Maintain good housekeeping to avoid accumulation of paper dust on exposed surfaces.

## 8. Exposure Control Measures, Personal Protection

### Exposure Limits/Guidelines:

Name	CAS#	Percent	Agency	Exposure Limits	Comments
Cellulose	65996-61-4	96-99	OSHA	PEL-TWA 15 mg/m <sup>3</sup>	Total dust
			OSHA	PEL-TWA 5 mg/m <sup>3</sup>	Respirable dust
			ACGIH	TLV®-TWA 10 mg/m <sup>3</sup> Cellulose	Total dust
Corn Starch	9005-25-8	1-4	OSHA	PEL-TWA 15 mg/m <sup>3</sup>	Total dust
			OSHA	PEL-TWA 5 mg/m <sup>3</sup>	Respirable dust
			ACGIH	TLV®-TWA 10 mg/m <sup>3</sup>	Total dust

### Appropriate Engineering Controls

#### Eye Protection:

Emergency eye wash stations should be provided for potential eye irritation.

#### Ventilation:

Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

#### Dust Generation:

Avoid creating or accumulating paper dust.  
Proper grounding procedures to avoid static electricity should be followed.  
Use explosion-proof electrical equipment where required.  
Utilize explosion vents or suppression systems on exhaust ventilation and material transport systems involved in handling paper dust as required by national and local regulations.  
Observe all other national and local regulations as required.

### Personal Protective Equipment

#### Protective Clothing:

Not required for normal use.

#### Hand Protection:

Not required for normal use.

#### Eye Protection:

In case of excessive dust production, tight fitting safety glasses or safety goggles are recommended to avoid irritation

#### Skin and Body Protection:

Not required for normal conditions of use, the use of work gloves can prevent mechanical irritation or paper cuts.

#### Respiratory Protection:

Use NIOSH-approved filtering face piece respirator ("dust mask") if airborne dust levels exceed exposure limits.

#### Work and Hygiene Practices:

Clean up areas where cellulose dust settles to avoid excessive accumulation of this combustible material. Minimize compressed air for cleaning or other practices that generate high airborne-dust concentrations.

## 9. Physical/Chemical Properties

<b>Physical Description:</b>	Converted paper products: corrugated and solid fiber
<b>Physical State:</b>	Solid
<b>Boiling Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Freezing Point:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Flash Point:</b>	Not applicable
<b>Lower Flammability Limit:</b>	Not applicable
<b>Upper Flammability Limit:</b>	Not applicable
<b>Oil-water Distribution Coefficient:</b>	Not applicable
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Solubility in Water (% by weight):</b>	Not applicable
<b>Specific Gravity:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Vapor Pressure (mm Hg):</b>	Not applicable
<b>Viscosity:</b>	Not applicable
<b>% Volatile by Volume:</b>	Not applicable

## 10. Stability and Reactivity

<b>Reactivity:</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical Stability:</b>	Stable in normal conditions
<b>Hazardous polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Not applicable
<b>Incompatible Materials:</b>	Open flame or other ignition sources
<b>Hazardous Decomposition Products:</b>	Combustion products include: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ) and fine particulate.

## 11. Toxicological Information

<b>Likely Routes of Exposure:</b>	Inhalation and eyes.
<b>Acute Toxicity Data:</b>	Not available for product in purchased form.
<b>LD50 and LC 50 Data:</b>	Not available
<b>Carcinogenicity (NTP, IARC, OSHA):</b>	Not classified
<b>Mutagenicity:</b>	Not classified
<b>Teratogenicity:</b>	Not classified
<b>Reproductive Toxicity:</b>	Not classified
<b>Target Organ Toxicity:</b>	Not classified
<b>Acute Health Hazards:</b>	Paper dust may be a mechanical irritant to the eyes and cause obstruction in the nasal passages.
<b>Chronic Health Hazards:</b>	Not expected under normal use
<b>Skin Corrosion/Irritation:</b>	Data is not available.
<b>Serious Eye Damage/Irritation:</b>	Data is not available.
<b>Respiratory or Skin Sensitization:</b>	Data is not available.
<b>Symptoms after Inhalation:</b>	Irritation to the respiratory tract
<b>Symptoms after Skin Contact:</b>	None expected under normal use
<b>Symptoms after Eye Contact:</b>	Mechanical irritation
<b>Chronic Symptoms:</b>	None expected under normal use

## 12. Ecological Information

**Environmental Toxicity:** Not available.

## 13. Disposal Considerations

**Waste Disposal Method:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

## 14. Transport Information

Not regulated as a hazardous material for transport by the U.S. Department of Transportation.

Not listed as a hazardous material in Canadian (TDG) regulations.

Not listed as a hazardous material for IATA.

Not listed as a hazardous material for IMDG.

## 15. Regulatory Information

**TSCA:** All ingredients of this product are either listed on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

**WHMIS Classification:** Not considered a controlled product.

## 16. Additional Information

**Date Prepared:**

**Date Revised:**      **Prepared By:**

### **Disclaimer:**

Manufacturer provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose and use in compliance with all applicable laws and standards. Manufacturer will not be liable for claims relating to any party's use of or reliance on information and data contained herein.