KRAFT PULP (BLEACHED)

SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Substance
Product Name: KRAFT PULP (BLEACHED)

Synonyms: BLEACHED KRAFT PULP; FLUFF PULP; PAPER FLUFF; PULP; CELLULOSE PULP

Intended Use of the Product
Used to produce printing and writing papers, tissue and toweling, packaging, and absorbent hygiene products.

Name, Address, and Telephone of the Responsible Party
Company
International Paper
6400 Poplar Avenue
Memphis, TN 38197
Tel.: 901-419-4848

Emergency Telephone Number
Emergency Number : 1-800-424-9300 (North America)/ 1-703-527-3887 (International)
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER

SECTION 2: HAZARDS IDENTIFICATION

This product is not hazardous in the form in which it is shipped by the manufacturer but may become hazardous by downstream activities (e.g., slitting, cutting, pulverizing) that reduce its particle size. Those hazards are described below.

Classification of the Substance or Mixture
Classification (GHS-US)
Combustible Dust

Label Elements
GHS-US Labeling
Signal Word (GHS-US) : Warning
Hazard Statements (GHS-US) : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

Other Hazards
Exposure to dust from further processing this product may aggravate pre-existing eye, skin, or respiratory conditions.

Unknown Acute Toxicity (GHS-US): Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose pulp</td>
<td>(CAS No) 65996-61-4</td>
<td>100</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

Skin Contact: Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if a large amount is swallowed.

Most Important Symptoms and Effects Both Acute and Delayed
General: Not expected to present a significant hazard under anticipated conditions of normal use.
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Inhalation: Dust from this product may cause irritation to the respiratory tract.
Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.
Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.
Ingestion: If a large quantity has been ingested: may cause gastrointestinal irritation.
Chronic Symptoms: None expected under normal conditions of use.

Indication of Any Immediate Medical Attention and Special Treatment Needed
if you feel unwell, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam, water spray.
Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture
Fire Hazard: Combustible Dust.
Explosion Hazard: When processed, may create a dust explosion hazard in 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.
Reactivity: Hazardous reactions will not occur under normal conditions.

Advice for Firefighters
Precautionary Measures Fire: Exercise caution when fighting any paper fire.
Firefighting Instructions: Use water spray or fog for cooling product containers.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Carbon oxides (CO, CO₂).

Reference to Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Avoid unnecessary contact with dust on skin, eyes, or clothing. Avoid breathing (dust). Avoid creating dusty conditions whenever feasible.
For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Environmental Precautions
Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up
For Containment: Dry sweeping can contain spilled product. Avoid generation of dust during clean-up of spills. Use only non-sparking tools.
Methods for Cleaning Up: For dust use explosion proof vacuum during cleanup, with appropriate filter, do not mix with other materials. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Avoid generation of dust during clean-up of spills.

Reference to Other Sections
See Section 8. Exposure controls and personal protection. Concerning disposal elimination after cleaning, see Section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Additional Hazards When Processed: Accumulation and dispersion of dust generated from this product with an ignition source can cause a combustible dust explosion, keep dust levels to a minimum and follow applicable regulations.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
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Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Avoid creating or spreading dust generated from this product. Use explosion-proof electrical, lighting, ventilating equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep/Store away from direct sunlight, incompatible materials, heat, hot surfaces, sparks, open flames, and other ignition sources.


Specific End Use(s)

Used to produce printing and writing papers, tissue and toweling, packaging, and absorbent hygiene products.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Cellulose (9004-34-6)</th>
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</thead>
<tbody>
<tr>
<td><strong>Control Parameters</strong></td>
</tr>
<tr>
<td><strong>Exposure Controls</strong></td>
</tr>
</tbody>
</table>
| **Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential dust exposure. Avoid creating or spreading dust generated from this product. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits. Power equipment should be equipped with proper dust collection devices. Ensure all national/local regulations are observed.
| **Personal Protective Equipment:** Not applicable for product in purchased form. Safety glasses. Dust formation: dust mask.
| **Materials for Protective Clothing:** Not required for normal conditions of use.
| **Hand Protection:** Not required for normal conditions of use.
| **Eye Protection:** In case of excessive dust production, safety goggles are recommended.
| **Skin and Body Protection:** Not required for normal conditions of use.
| **Respiratory Protection:** Use NIOSH-approved dust mask if dust has the potential to become airborne.
| **Environmental Exposure Controls:** For solid product or dust do not allow the product to be released into the environment.
| **Consumer Exposure Controls:** Do not eat, drink or smoke if dust is generated during further processing.

Environmental Exposure Controls:

For solid product or dust do not allow the product to be released into the environment.

Consumer Exposure Controls:

Do not eat, drink or smoke if dust is generated during further processing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

| Physical State       : Solid |
| Appearance           : White |
Odor: Odorless
Odor Threshold: Not available
pH: Not available
Evaporation Rate: Not available
Melting Point: Not available
Freezing Point: Not available
Boiling Point: Not available
Flash Point: Not available
Auto-ignition Temperature: Not available
Decomposition Temperature: Not available
Flammability (solid, gas): Not available
Lower Flammable Limit: Not available
Upper Flammable Limit: Not available
Vapor Pressure: Not available
Relative Vapor Density at 20 °C: Not available
Relative Density: Not available
Specific Gravity: Not available
Solubility: Insoluble in water.
Partition Coefficient: N-octanol/water: Not available
Viscosity: Not available
Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge: Static discharge could act as an ignition source.
LEL: Not available
Molecular weight: (162.14)x
Molecular formula: (C₆H₁₀O₅)x

SECTION 10: STABILITY AND REACTIVITY
Reactivity: Hazardous reactions will not occur under normal conditions.
Chemical Stability: Stable under recommended handling and storage conditions (see section 7).
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: Direct sunlight. Heat, hot surfaces, sparks, open flames, and other ignition sources. Incompatible materials.
Hazardous Decomposition Products: Thermal decomposition generates carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects - Product
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not classified
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: Dust from this product may cause irritation to the respiratory tract.
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Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Ingestion: If a large quantity has been ingested: gastrointestinal irritation.
Chronic Symptoms: None expected under normal conditions of use.

**Information on Toxicological Effects - Ingredient(s)**

LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rabbit</th>
<th>LC50 Inhalation Rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose (9004-34-6)</td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 2000 mg/kg</td>
<td>&gt; 5800 mg/m³ (Exposure time: 4 h)</td>
</tr>
</tbody>
</table>

**SECTION 12: ECOLOGICAL INFORMATION**

Toxicity: No additional information available.
Persistence and Degradability: Not available.
Bioaccumulative Potential: Not available.
Mobility in Soil: Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

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

**SECTION 14: TRANSPORT INFORMATION**

In Accordance with DOT: Not regulated for transport.
In Accordance with IMDG: Not regulated for transport.
In Accordance with IATA: Not regulated for transport.
In Accordance with TDG: Not regulated for transport.

**SECTION 15: REGULATORY INFORMATION**

US Federal Regulations
All ingredients of this product are either listed on the TSCA inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

US State Regulations

<table>
<thead>
<tr>
<th>Cellulose (9004-34-6)</th>
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<tbody>
<tr>
<td>U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

Canadian Regulations

<table>
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<tr>
<th><strong>KRAFT PULP (BLEACHED)</strong></th>
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<tbody>
<tr>
<td>WHMIS Classification Uncontrolled product according to WHMIS classification criteria</td>
</tr>
</tbody>
</table>

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.
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SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 05/26/2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Combustible Dust</th>
<th>If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.</th>
</tr>
</thead>
</table>

NFPA Health Hazard : 0 – Dust exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.
NFPA Fire Hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

HMIS III Rating
Health : 0 Minimal Hazard - No significant risk to health
Flammability : 2 Moderate Hazard
Physical : 0 Minimal Hazard

Party Responsible for the Preparation of This Document
International Paper
6400 Poplar Avenue
Memphis, TN 38197
Tel.: 901-419-4848

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SDS NA International Paper
KRAFT PULP (BLEACHED)

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.