

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: Bleached Eucalyptus Kraft Pulp
Product Use: Paper and Specialty Materials
Chemical Name: Cellulose Pulp
CAS Number: 65996-61-4
Manufacturer Name : Suzano
Address & Emergency phone number: See item 16.

2. HAZARD(S) IDENTIFICATION

Signal Word(s): **WARNING**

Product Classification (GHS)	Hazard Statement(s)	Pictogram
Combustible Dust (OSHA Defined Hazard)	If converted to smaller particles during processing, handling or by other means, may form combustible dust concentrations in air.	None

NOTE: This product is not hazardous in the form that it is shipped by the manufacturer but processing and converting during downstream applications that reduce particle size can pose potential hazards below:

Precautionary Statement(s): Caution should be taken when processing, shipping, handling and when using the product if dust is produced in a dry area. Avoid sparks, flames, or other ignition sources.

Ingredients of Unknown

Acute Toxicity (>1%): None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	EC #	Wt %
Pulp Cellulose (C ₆ H ₁₀ O ₅) _n	65996-61-4	265-995-8	90-95

4. FIRST-AID MEASURES

Eye:	Dust released may irritate eyes mechanically, causing redness and watering
Ingestion:	Not applicable under standard product application
Inhalation:	In case of inhaling dust, move to an area of fresh air. Seek medical assistance should constant irritation, severe coughing or trouble breathing occurs.
Skin Contact:	Does not apply for standard product application
Skin Absorption:	Not known and unlikely to be absorbed into skin
Symptoms or Effects:	Acute symptom from dust can cause eye irritation. Seek medical help if eye irritation persists and/or breathing difficulty occurs.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:	Water will extinguish cellulose that is on fire. Other extinguishing media may be used for preventing spread of fire.
Specific Hazardous Combustion Products:	Smoke, fine particulates, carbon monoxide, carbon dioxide
Protective Equipment Or Precautions for Firefighters:	Approved fire-fighting protective clothing and breathing protection equipment

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:	Maintain good housekeeping practices where product is stored and used to avoid excessive dust exposure that may lead to eye and inhalation irritation. Remove dust to prevent accumulation. Use dust mask and eye protection in poorly ventilated areas.
Methods and Materials for Containment:	Broom and vacuum dust collection

7. HANDLING AND STORAGE

Precautions:	Store in a dry, cool location away from sources of ignition, flames, and/or sparks. Use an approved face shield and gloves when cutting unitized wires
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to prevent injury when wires snap open. Each bale weighs 250 kg¹ and one unite (8 bales) weighs 2.0 metric tons. For handling purposes, bale wires should not be used as hooking point for transport and handling.

Safe Storage:

Units (8 bales) should be stacked on level ground, to prevent bales from falling over. Top units must straddle two of the lower units to improve stability. If units are damaged during transportation or handling, do not stack. Prolonged storage in humid conditions may cause bales to absorb moisture leading to change in shape rendering stacks unstable. Store in areas free of moisture and with adequate fire protection sprinkler systems.

¹ For flash pulp, each bale weighs 200 kg.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Exposure Limits	Agency	Description
Cellulose	PEL – TWA 5 mg/m ³	OSHA	Respirable Dust
	TLV – TWA 10 mg/m ³	ACGIH	Total Dust
	PEL – TWA 15 mg/m ³	OSHA	Total Dust

Appropriate Engineering

Controls: Use general mechanical and/or local exhaust ventilation system to minimize dust concentrations below guidelines

Personal Protective

Equipment (PPE):
Eyes: Use safety glasses or goggles when dust levels are elevated
Respiratory: Wear NIOSH approved dust mask and/or air purifying respirator when allowable exposure limits may exceeded.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

Protective Gloves: Wear gloves to prevent mechanical irritation from handling
Skin Protection: Outer garments may be desired in significantly dusty areas

Special Requirements: None

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Paper sheets, rolls, or bales – white in color.
Upper/Lower Explosive Limit: NAP
Odor: None
Vapor Pressure: NAP
Vapor Density (Air = 1): NAP

Relative Density: NAP
pH: NAP
Melting Point: NAP
Freezing Point: NAP
Solubility: < 1.0%
Boiling Point: NAP
Boiling Point Range: NAP
Flash Point: NAP
Evaporation Rate: NAP
Flammability: NAP
Partition Coefficient: NAP
Auto Ignition Temperature: 450° F / 232° C
Decomposition Temperature: NAP
Viscosity: NAP

10. STABILITY AND REACTIVITY

Stability: Unstable Stable
Hazardous Polymerization: May Occur Will Not Occur
Conditions to Avoid: NAP
Sensitivity to Static Discharge: NAP
Incompatibility: Avoid sources of ignition, sparks, flames
Reactivity: NAP
Hazardous Decomposition: Combustion by-products include carbon dioxide, carbon monoxide, and smoke fine particulates

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Eyes and inhalation from cellulose converted into dust form

Signs and Symptoms of Exposure:

Acute Health Hazards: Not applicable in purchased form. Dust may irritate eyes and cause mild irritation if inhaled.

Chronic Health Hazards: Cellulose dust has not been shown to produce significant disease or toxic effects when exposure limits are met. Cellulose is poorly soluble and has a low order of toxicity.

Carcinogenicity Listing: NTP: None
IARC: None

OSHA: None

Toxicity Data: Cellulose LC₅₀ (rats, inhalation) = 5,800 mg/m³/4 hours (source: Registry of Toxic Effects Chemical Substance (RTECS), National Institute for Occupational Safety and Health – provided by Canadian Center of Occupational Health and Safety, CCINFO, May 1995).

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data are available

Persistence and degradability: No data are available

Bioaccumulative Potential: No data are available

Mobility in Soil: Not expected to migrate into the groundwater or traverse significant distance from the release location

Other Adverse Effects: No data are available

13. DISPOSAL CONSIDERATIONS

Disposal Method: This product is not considered hazardous waste and may be disposed in a landfill or incinerated in accordance with local, state, and federal regulatory requirements.

14. TRANSPORT INFORMATION

Mode: Air, Land, Water – Cellulose is not regulated as a hazardous material by the U.S. Department of Transportation and Canadian Transportation of Dangerous Good (TDG). Cellulose is not listed as a hazardous material by IMDG or IATA. Cellulose is not listed as a dangerous good by the European Agreement concerning the international carriage of dangerous goods by road (ADR).

14. TRANSPORT INFORMATION (CONTINUED)

UN/NA Number: NAP

Proper Shipping Name: NAP

Hazard Class(es): NAP

Packing Group: NAP

Environmental Hazards: NAP

DOT Labels Required: NAP

Special Precautions: NAP

15. REGULATORY INFORMATION

TSCA:	Ingredients of this product are either listed on the Toxic Substance Control Act (TSCA) or are exempt from the TSCA inventory under 40 CFR 720.30
CERCLA:	This product does not contain ingredients which are subject to the requirements for reporting of CERCLA
DSL:	Cellulose is listed on the Canadian Domestic Substance List
European REACH:	This product contains less than 0.1% of any Substance of Very High Concern (SVHC) listed in REACH. Therefore, none of the REACH pre-registration, registration, notification and/or conditions of the restriction apply.
ENCS:	Cellulose is not listed or is exempt from Japanese Existing and New Chemical Substances List as regulated by the Ministry of International Trade and Industry.
OSHA:	Cellulose dust is a regulated hazard under the OSHA Hazard Communication Standard (29 CFR 1910.1200). The product shipped in its current form is not regulated as a OSHA hazardous chemical.
SARA 313 Information:	The product does not contain any chemical ingredient(s) with known CAS numbers that exceed the <i>de minimis</i> reporting levels established by SARA Title III, section 313 and 40 CFR section 372.

15. REGULATORY INFORMATION (CONTINUED)

SARA 311/312 Hazard

Category: This product has been reviewed according to the EPA Hazard Categories: promulgated under SARA Title III, Sections 3111 and 312 and is considered, under applicable definitions, to meet the following categories:

An immediate (acute) health hazard:	No
A delayed (chronic) health hazard:	No
A corrosive hazard:	No
A fire hazard:	No
A reactivity hazard:	No
A sudden release hazard:	No

WHMIS Classification: Not considered a controlled product

FDA:

Please contact your Suzano representative for regulatory information about FDA approvals.

16. OTHER INFORMATION

Date Prepared: 4/20/2018

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If any other information is needed, please contact our Technical Department at:

Email: pulpservices@suzano.com.br

In North America contact: Gwenael Vallantin
(gvallantin@suzanoeuropa.com)
SUZANO PULP AND PAPER AMERICA - 800 Corporate Drive - Suite 320 /Fort Lauderdale – USA

In Asia contact: Radar Zheng and/or Bill Bian
(radarzheng@suzanoasia.com / billbian@suzanoasia.com)
SUZANO PULP AND PAPER ASIA, 3202 United Plaza - 1468, West Nanjing Road/ Shanghai - China

In Europe contact: Jari Aittakari and/or Pascal Bernard
(jari.aittakari@suzanoeuropa.com/ pascal.bernard@suzanoeuropa.com)
SUZANO TRADE GMBH, Millenium Park 6, 6890 - Lustenau – Austria

Other Locations: Patrícia Pignaton
(pnunes@suzano.com.br)
Avenida Brigadeiro Faria Lima, 1355 – Pinheiros – São Paulo/Brazil
Phone: +55 27 32702965