

MATERIAL SAFETY DATA SHEET UNBLEACHED SOFTWOOD KRAFT PULP 1

	PRODUCT AND COMPANY IDENTIFICATION
Product name	: Unbleached Softwood Kraft Pulp (UKP)
Brand Names	: Celco Light Colour, Celco Low Kappa (Fiber cement grade).
Company Identification	: Celulosa Arauco y Constitución, S.A., Licancel Mill / Constitucion
	Mill Camina a llaga Km 2 Ligantán - VIII Bagián Chila / Avanida
	Camino a Iloca Km. 3, Licantén - VII Región, Chile / Avenido Mac-Iver 505, Constitución – VII Región, Chile
Telephone	56 - 75 - 2205000 / 56 - 71 - 2200800
Fax	: 56 - 75 - 2460028 / 56 - 71 - 2200804
Emergency Telephone Nu	umber : 56 – 75 – 2205155 (Chile)
SECTION 2. COMPOSITI	ON/INFORMATION ON INGREDIENTS
Chemical name	: Cellulose
Composition	: >85 % of cellulose
Formula	: (C ₆ H ₁₀ O ₅) _n
Molecular Weight	: (162)n
Synonyms	: Unbleached Softwood Kraft Pulp, Brown pulp.
CAS number	: 65996-61-4
NU number	: Not applicable
General aspects	: Pulp sheets are assembled in bales and tied up with metal wires.
Use	Bales are tied up by eight into "units" using metal wires. Paper manufacture, packaging and construction materials.
SECTION 3. HAZARD IDE	
Hazard Classification	: Not applicable.
Primary Health Hazards	: The primary health hazard is due to exposure to dust.
Human health hazards-ac	
Inhalation	: Not applicable for product in purchased form. Cellulose dust may aggravate pre-existing respiratory conditions or allergies. Excessive dust concentrations may cause unpleasant deposit or obstruction in the nasa passages.
Skin contact	: Not applicable for product in purchased form.
Eye contact	: Not applicable for product in purchased form. Dust may mechanically irritate the eyes, resulting in redness or watering.
Ingestion	: None
	nronic ed a biologically inert dust that has little or no effects on the lungs and does not

produce significant organic disease or toxic effect when allowable exposure limits are met.

¹ Elaboration HDS : February 2006.
 Revision : March 2017.
 Based in NCh2245.Of.2015, National Institute of Normalization (INN)-Chile, and EEC directive 91/155

if persistent initation, severe coughing or breathing difficulty occurs. Skin contact : Not applicable for product in purchased form. Eyes contact : Flush dust particles from eyes with water and get medical assistance if initiation develops or persists. Ingestion : Not applicable for product in purchased form. Nole to physician : None. SECTION 5. FIRE FIGHTING MEASURES Fire and Explosion data Flammability : May ignite upon exposure to open flame or at high temperature. Hash point (method used) : None. Lower explosion limit : See below "Unusual Fire and Explosion Hazards". Upper explosion limit : Shore. Preventive measures : Store the product in a dry location with appropriate ventilation keeping away from open flames or sparks. Extinguishing media : Water. Carbon dioxide, eAS, foarn or dry chemicals. Hazardous combustion products : Carbon dioxide, carbon monoxide and other products resulting from incomplete cellulose combustion. Unusual Fire Explosion Hazards: : Depending on moisture content, particle diameter, and rate o heating, cellulose dust may explode in the presence of a ignition source. An airborne concentration of 30.000 mg/m³ i offer used as the ELF for cellulose pulp. Personal protection for fire fighting : Wear respiratory protection to prevent burna and skin contract.	SECTION 4. FIRST AID MEASURES			
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SECTION 8. EXPOSURE COI	NTROLS/PERSONAL PROTECTION
Personal protective equipme	ent contraction of the second se
Respiratory	: Not applicable for the product in purchased form. In case of exposure to high dust levels, use respiratory protection. A NIOSH/MSHA-approved respirator is recommended when allowable exposure limits may be exceeded.
Eyes	: Not applicable for the product in purchased form. Safety glasses are recommended if the product is to be used in such a way that generates high dust levels.
Hands	: Sheets of baled product may have sharp edges. Use leather gloves when handling.
Other protective clothing or equipment:	: Not applicable for the product in purchased form. Outer garments may be used if working in extremely dusty areas.
Ventilation	
Local exhaust	: Provide local exhaust as needed so that exposure limits are met.
Mechanical (general)	: Provide general ventilation in processing and storage areas so that exposure limits are met.
SECTION 9. PHYSICAL AND	CHEMICAL PROPERTIES
Physical state	: Solid material
Appearance	: Brown odourless cellulose sheets
Composition	: 99.6 % Organic content in dry base
pH (hot extract)	: Not applicable for the product in purchased form.
Specific Gravity (H ₂ O=1)	: 0.6
Solubility in water (% by weight)	: <1.0
Ignition Point	: 350 °C
Limit of inflammability	: Not applicable for the product in purchased form.
Autoignition Temperature	: 232 °C (450 °F)
Fire and explosion risk	: Risk of fire when maintaining close to the source of ignition
Vapor Pressure to 20°C	: Not applicable for the product.
Vapor Density	: Not applicable for the product.
SECTION 10. STABILITY AND) REACTIVITY
Chemical stability	: Stable under normal conditions of use and storage.
Incompatibility	 Avoid direct contact with water (product deterioration) strong oxidants (sodium chlorate, hydrogen peroxide, etc) and with flames or sparks.
Hazardous decomposition pr	roducts : None, except combustion products (see point 5)
Hazardous polymerization	: Not applicable for the product.
SECTION 11. TOXICOLOGI	CAL INFORMATION
Short-term toxicity	: Do not present degrees of toxicity
Long-term toxicity	: Do not present some grade of toxicity
Local or systemic effects	: None
Sensitization	: Not expected to cause sensitization
Carcinogenicity	: Not listed as carcinogenic
Mutagenicity	: No known effects
Reproductive toxicity	: No known effects
	ion) = 5,800 mg/m³/4 hours. Source: Registry of Toxic Effects of Chemical

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

SECTION 12. ECOLOGICAL INFORMATION			
Chemical instability :	None		
Environmental fate :	The product naturally biodegrades when exposed to the environment.		
Effects on environment :	No known effects.		
SECTION 13. DISPOSAL CONSI	DERATIONS		
otherwise d Cellulose is Recovery A Follow all a the user's re	of the case, product should be recycled as much as possible; eposit in landfill or incinerate according to local regulation. not listed under any sections of the Resource Conservation and Act (RCRA) or Canadian National Pollution Release Inventory (NPRI). pplicable federal, state, provincial and local regulations. It is, however, esponsibility to determine at the time of disposal whether your product A criteria for hazardous waste.		
SECTION 14. TRANSPORT INFOI	RMATION		
Terrestrial for road or train :	Adapted		
Seaway :	Adapted		
Air route :	Adapted		
Lake waterway :	Adapted		
Number UN :	Not Applicable		
Not regulated as hazardous material by the U.S. Department of Transportation. Not listed as hazardous material in the Canadian Transportation of Dangerous Goods (TDG) regulations.			
SECTION 15. REGULATORY INFO			
Applicable international standard			
DSL ³	All ingredients are on the TSCA inventoryAll ingredients listed of the Canadian Domestic Substance		
D3L.	List.		
REACH Regulation ⁴	Not applicable		
WHMIS ⁵ Classification	: Not classified.		
National applicable standards	: Specific ground rules on the product do not exist		
Check mark in label	: Do not apply.		
SECTION 16. OTHER INFORMATION			
form belong to qualified profession	ere obtained from reliable sources of information. Opinions in this fill-out ionals. The given information it is the known to the date related to this		

Considering that, the use of this information and of products is out of the supplier's control, the company does not assume responsibility for these concepts. It is user's obligation to identify safe conditions for the use of the product.

² Toxic Substance Control Act

³ Domestic Substances List

⁴ Registration, Evaluation, Authorization and Restriction of Chemical substances. Regulation (CE) N° 1907/2006

⁵ Workplace Hazardous Materials Information System