(North America)

(International)



# SAFETY DATA SHEET

# 1. SUBSTANCE AND SOURCE IDENTIFICATION

**Product Identifier** 

RM Number: 8495

RM Name: Northern Softwood Bleached Kraft Pulp

Other Means of Identification: Not applicable.

### Recommended Use of This Material and Restrictions of Use

This Reference Material (RM) is bleached dried lap pulp from northern softwood of a standard production run. A unit of RM 8495 consists of ten standard lap sheets. Each carton of ten sheets weighs approximately five kilograms.

# **Company Information**

National Institute of Standards and Technology Standard Reference Materials Program 100 Bureau Drive, Stop 2300 Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200 Emergency Telephone ChemTrec: FAX: 301-948-3730 1-800-424-9300 E-mail: SRMMSDS@nist.gov +1-703-527-3887 Website: http://www.nist.gov/srm

### 2. HAZARDS IDENTIFICATION

#### Classification

Physical Hazard: Not classified. Health Hazard: Not classified.

**Label Elements** 

Symbol

No Symbol/Pictogram

Signal Word

Not applicable.

**Hazard Statement(s):** Not applicable.

**Precautionary Statement(s):** Not applicable.

Hazards Not Otherwise Classified: Not applicable.

**Ingredients(s) with Unknown Acute Toxicity:** Not applicable.

### 3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Pulp, cellulose

Other Designations: Beta-amylose; alpha-cellulose; microcrystalline cellulose; powdered cellulose; cellate.

Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Report of

Investigation.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Pulp, cellulose	65996-61-4	265-995-8	100

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### 4. FIRST AID MEASURES

### **Description of First Aid Measures:**

**Inhalation:** If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

**Skin Contact:** Wash skin with soap and water.

**Eye Contact:** Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

**Ingestion:** If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

**Indication of any immediate medical attention and special treatment needed, if necessary:** If any of the above symptoms are present, seek medical attention if needed.

# 5. FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** Slight fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

#### **Extinguishing Media:**

Suitable: regular dry chemical, carbon dioxide, water, regular foam.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

**Special Protective Equipment and Precautions for Fire-Fighters:** Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

**NFPA Ratings** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 1 Reactivity = 0

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

### 7. HANDLING AND STORAGE

**Safe Handling Precautions:** Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

**Storage:** Store and handling in accordance with all current regulations and standards. Keep separated from incompatible substances (oxidizing materials).

#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:** No occupational exposure limits have been established for pulp, cellulose (CAS Number 65996-61-4).

**Engineering Controls:** Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

**Personal Protection:** In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

**Respiratory Protection:** If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

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**Eye/Face Protection:** Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

**Skin and Body Protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):  Molecular Formula: (C <sub>6</sub> -H <sub>10</sub> -O <sub>5</sub> ) <sub>X</sub> Molar Mass (g/mol): Odor: Not applicable Odor threshold: Not available  Odor threshold: Not available  Evaporation rate: Not applicable Melting point/freezing point (°C): Not applicable Specific Gravity (water=1) Vapor Pressure (mmHg): Vapor Density (air = 1): Not applicable Viscosity (cP): Not applicable  Not applicable  Not applicable Not applicable Viscosity (cP): Not applicable Solubility(ies): Insoluble in water  Soluble: Schweitzer's reagent, concentrated zinc chloride solutions, ammoniacal copper hydroxide solutions, caustic, alkali/carbon disulfide solutions						
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chloride solutions, ammoniacal copper hydroxide						
solutions, causic, alkan/caroon distincte solutions						
Partition coefficient (n-octanol/water): Not available						
Particle Size: Not applicable						
Thermal Stability Properties:						
<b>Autoignition Temperature (°C):</b> Not available						
<b>Thermal Decomposition</b> (°C): 260 – 270 (500 °F – 518 °F)						
Initial boiling point and boiling range (°C):  Not applicable						
Explosive Limits, LEL (Volume %): Not available						
Explosive Limits, UEL (Volume %):  Not available						
Flash Point (°C):  Not available						
Flammability (solid, gas): Not available						
10. STABILITY AND REACTIVITY						
Reactivity: Stable at normal temperatures and pressure.						
Stability: X Stable Unstable						
Possible Hazardous Reactions: None listed.						
<b>Conditions to Avoid:</b> Avoid generating dust. Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.	d					
Incompatible Materials: Halogens, peroxides, oxidizing materials.						
Fire/Explosion Information: See Section 5, "Fire Fighting Measures".	Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.					

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SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

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SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No. CHRONIC HEALTH: No. FIRE: No. REACTIVE: No. PRESSURE: No.

#### **State Regulations:**

California Proposition 65: Not listed.

U.S. TSCA Inventory: Pulp, cellulose is listed.TSCA 12(b), Export Notification: Not listed.

**Canadian Regulations:** 

WHMIS Information: Not provided for this material.

# 16. OTHER INFORMATION

Issue Date: 27 January 2014

**Sources:** ChemAdvisor, Inc., MSDS *Pulp, Cellulose*, 23 December 2013.

### **Key of Acronyms:**

ACGIH	American Conference of Governmental Industrial	NRC	Nuclear Regulatory Commission
	Hygienists		
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response,	PEL	Permissible Exposure Limit
	Compensation, and Liability Act		-
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial	RQ	Reportable Quantity
	Chemical Substances		•
EPCRA	Emergency Planning and Community Right-to-Know	RTECS	Registry of Toxic Effects of Chemical Substances
	Act		• •
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Level
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System
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**Disclaimer:** Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Report of Investigation.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at http://www.nist.gov/srm.

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