Safety Data Sheet

Section 01 - Identification

Product Identifier	PRE-CO-FLOC
Other Means of Identification	NB10, NB20, PB20, PB40M, PB40, PB33, PB33C, PB100M, PB200M, PB300M, PB20M
Product Use and Restrictions on Use	Filter aid media for clarification of liquids.
Initial Supplier Identifier	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
Prepared By	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
24-Hour Emergency Phone	Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
Pulp (cellulose)	9004-34-6	99-100%	

Section 04 - First Aid Measures

Inhalation	If symptoms are experienced, remove victim to fresh air. Seek medical attention if breathing becomes difficult or discomfort occurs.
Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.
Eye Contact	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. If irritation persists, seek medical attention.
Ingestion	If large amounts are ingested, give plenty of water to drink and seek medical attention if discomfort persists.
Additional Information	This product has very low toxicity. Treatment is symptomatic and supportive only.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media	Small fires: Carbon dioxide or dry chemical powder. Large fires: Water spray or alcohol resistant foam.

Unsuitable Extinguishing Media	Not Available
Specific Hazards Arising From the Chemical	During a fire, very toxic gases such as carbon monoxide and formaldehyde are formed. Heat from a fire may cause a build-up of pressure inside containers, which may cause explosive rupture.
Special Protective Equipment and Precautions for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Further Information	Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
Environmental Precautions	Do not let product enter drains.
Methods and Materials for Containment and Cleaning Up	Spills can be swept or vacuumed up for disposal or recovery.

Section 07 - Handling and Storage

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated place at room temperature. Do not store near open flames, spark sources and excessive heat.
Incompatibilities	Sparks, open flame, oxidizers.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Pulp (cellulose)	OSHA	PEL	15mg/m^3 (total particulate)
			5mg/m^3 (respirable particulate)
	ACGIH	TLV-TWA	10mg/m^3

Engineering Control(s)

Ventilation Requirements	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face	Chemical goggles or safety glasses should be worn when dust concentrations are high. Wearing contact lenses is not recommended in dusty environments.
Hand Protection	Normally not needed, gloves should be worn if skin is broken (cuts, scrapes).

Skin and Body Protection	Normally not needed, any contaminated clothing should be washed and dried thoroughly before reuse. No special footwear is required other than what is mandated at place of work.
Respiratory Protection	Use NIOSH/MSHA approved dusk mask for if dust levels are excessive (>15 mg/m^3).
Thermal Hazards	Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State	Solid, fibrous
Colour	White
Odour	Odourless
Odour Threshold	Not Applicable

Property

pH	Not Applicable
Melting Point/Freezing Point	Decomposes
Initial Boiling Point and Boiling Range	Decomposes
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Material will burn if involved in a fire.
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20^{o}C)	Not Applicable
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Insoluble to practically insoluble in water and most organic solvents.
Partition Coefficient: n-octanol/water	Not Applicable
Auto-ignition Temperature	400-500°C
Decomposition Temperature	~180°C
Viscosity	Not Applicable
Explosive Properties	Like most organic powders, under severe dusting conditions, this material may form explosive mixtures in air.

Specific Gravity (Water=1)	Not Applicable
% Volatiles by Volume	Not Available
Formula	$(C_6H_{10}O_5)_n$
Molecular Weight	>30000

Section 10 - Stability and Reactivity

Reactivity	Not Available
Stability	Normally stable. Wet cellulose is susceptible to microbial attack.
Possibility of Hazardous Reactions	Oxidized very slowly by air at room temperature. The rate of oxidation is faster for the coarse, fluffy solid than for the dense, free flowing solid. Microbial attack may cause wet cellulose to self-heat and consequently undergo spontaneous combustion. Decomposes quickly above 180°C.
Conditions to Avoid	Not Available
Incompatible Materials	Sparks, open flames, oxidizers.
Hazardous Decomposition Products	Microbial degradation releases extremely flammable methane gas and toxic carbon dioxide gas. Peroxides, aldehydes, ketones, acids and other compounds form upon air oxidation. Thermal decomposition or decomposition of peroxides form compounds such as glucose monomers, levoglucosan, polycyclic ethers, arabonic acid, furfural, furaldehyde, furan, oxalic acid, acetalkdehyde, formic acid, formaldehyde, carbon monoxide, or carbon dioxide.

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Cellulose	> 2000mg/kg (rat)	Not Available	> 5800mg/m^3 (rat, 4hr exposure)

Chronic Toxicity – Carcinogenicity

Component	IARC
Cellulose	Not considered to be carcinogenic by NTP, IARC, or OSHA.

Skin Corrosion/Irritation	Non-irritating in most cases, slightly irritating when excess dust is present.
Ingestion	Not a normal route of entry. However, ingestion may cause gastrointestinal upset.
Inhalation	Material is considered a nuisance dust, excessive dust concentrations may cause unpleasant deposit or irritation in the nasal and throat passages. May aggravate pre-existing respiratory conditions or allergies.
Serious Eye Damage/Irritation	Non-irritating in most cases, slightly irritating when excess dust is present.
Respiratory or Skin Sensitization	Chronic exposure may lead to respiratory sensitation. May aggravate pre-existing respiratory conditions or allergies.
Germ Cell Mutagenicity	Not known to be mutagenic.
Reproductive Toxicity	Not Available
STOT-Single Exposure	Material is considered a nuisance dust, excessive dust concentrations may cause unpleasant deposit or irritation in the nasal and throat passages.

STOT-Repeated Exposure	Not Available
Aspiration Hazard	Not Available
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Cellulose	Not Available	Not Available	Not Available

Biodegradability	Inherently biodegradable in soil. Degrades in soil at a rate comparable to corn starch.
Bioaccumulation	Bioaccumulation is unlikely.
Mobility	Not Available
Other Adverse Effects	Low ecotoxicological concern.

Section 13 – Disposal Considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

TDG

Other	Secure containers (full and/or empty) with suitable hold down devises during shipment and ensure all caps, valves, or closures are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date August 28, 2015

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

1) CHEMINFO
2) eChemPortal
3) TOXNET
4) Transportation of Dangerous Goods Canada
5) HSDB
6) ECHA

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