



Safety Data Sheet

Section 01 - Identification

Product Identifier	Alpha-Cel BH100
Other Means of Identification	Cellulose pulp (pulverized), cellulose flock, powdered cellulose, bleached sulphite pulp
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
Powdered cellulose	9004-34-6	100%	Not Available

Section 04 - First Aid Measures

Inhalation	Remove victim to fresh air if breathing becomes difficult. Seek medical attention if breathing becomes difficult or discomfort occurs.
Skin Contact / Absorption	Skin that comes in contact can be washed with soap and water.
Eye Contact	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 30 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. 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 Foam manufacturers should be consulted for recommendations regarding types of foams and application rates.
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Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Chemical Combustion products include carbon monoxide and carbon dioxide.

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. Prevent material from entering sewers. Flush with water to remove any residue. Avoid dust formation. Avoid breathing vapours, mists, gas or dust.

Environmental Precautions Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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 Strong oxidizing agents.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Powdered 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 Gloves should be worn if skin is broken (cuts, scrapes).

Skin and Body Protection	Wash contaminated clothing and dry thoroughly before reuse. Impervious boots of chemically resistant material should be worn at all times. 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	Fibrous solid
Colour	White
Odour	Odourless
Odour Threshold	Not Applicable

Property

pH	5.0-7.0 (10% suspension)
Melting Point/Freezing Point	Not Applicable
Initial Boiling Point and Boiling Range	Not Applicable
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Can burn if strongly heated. In piles, it burns with about the same ease as sawdust.
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Applicable
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Applicable
Solubility(ies)	Insoluble in water
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	Not Available
Molecular Weight	Not Available

Section 10 - Stability and Reactivity

Reactivity	Risk of dust explosion.
Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Oxidized very slowly by air at room temperature microbial attack may cause wet cellulose to self-heat and consequently undergo spontaneous combustion decomposes quickly about 180°C.
Conditions to Avoid	Temperatures above 180°C
Incompatible Materials	Strong oxidizing agents.
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, acetaldehyde, 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)

Chronic Toxicity – Carcinogenicity

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

Skin Corrosion/Irritation	Non-irritating to skin.
Ingestion	Not a normal route of entry. However, ingestion may cause gastro-intestinal 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	Dust may irritate eyes, resulting in redness or watering.
Respiratory or Skin Sensitization	Chronic exposure may lead to respiratory sensitization. May aggravate pre-existing respiratory conditions or allergies.
Germ Cell Mutagenicity	Not Available
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
Powdered 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 Not Available

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 devices 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 17, 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

ClearTech Industries Inc. - Locations

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