

Safety Data Sheet

Section 01 - Product And Company Identification

Product Identifier Bio-Systems B250

Other Means of Identification None

Product Use and Restrictions on

Use

Specially-formulated range of adapted, high-performance microorganisms for use in

biological wastewater treatment of dairy wastes.

Initial Supplier Identifier ClearTech Industries Inc.

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S7K 1V7

Prepared By ClearTech Industries Inc. Technical Writer

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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

Non-pathogenic bacteria culture Not Available Not Available

Section 04 - First Aid Measures

Inhalation If symptoms are experienced remove victim to fresh air. Give artificial respiration only if

breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention.

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. Forcibly hold eyelids apart to ensure complete irrigation

of eye tissue. If irritation persists, seek medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water. Drink water if person is conscious.

Seek medical attention.

Additional Information Call physician if symptoms persist.

Section 05 - Fire Fighting Measures

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Not Available Chemical

Precautions for Fire-Fighters

Special Protective Equipment and 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.

Environmental Precautions Prevent material from entering sewers.

Methods and Materials for Containment and Cleaning Up Vacuum or sweep up spilled material avoiding generation of dust. Place spilled material

into labelled containers for future disposal. Wash any residues with water.

Section 07 - Handling and Storage

Use proper equipment for lifting and transporting all containers. Use sensible industrial **Precautions for Safe Handling**

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Store in a cool dry place with a temperature between 5-40°C. Do not freeze. Ensure **Conditions for Safe Storage**

packaged containers remain sealed.

Incompatibilities Acids or alkaline products may inactivate biological cultures.

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component Regulation Type of Listing Value

B250 Enzymes Not Available Not Available Not Available

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

Chemical safety glasses with side shield should be worn while product is being handled. Eyes/Face

Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all **Hand Protection**

times. Wash contaminated clothing and dry thoroughly before reuse.

Skin and Body Protection Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all

times. 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 Respiratory protection is not normally required. If use creates dust formations, then a

NIOSH approved respirator with a dust cartridge is recommended.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Free-flowing granular powder

Colour Brown or blue

Odour Yeast like odour

Odour Threshold Not Available

Property

pH 6.0-7.0 when mixed with water

Melting Point/Freezing Point Not Available

Initial Boiling Point and Boiling

Range

Not Available

Flash Point Not Applicable

Evaporation Rate Not Available

Flammability Non-Flammable

Upper Flammable Limit Not Available

Lower Flammable Limit Not Available

Vapour Pressure (mm Hg, 20°C) Not Available

Vapour Density (Air=1) Not Available

Relative Density 0.6-0.8 g/cm³

Solubility(ies) Moderate, disperses in water

Partition Coefficient: n-

octanol/water

Not Available

Auto-ignition Temperature Not Available

Decomposition Temperature Not Available

Viscosity Not Available

Explosive PropertiesLarge dust accumulations may contain an explosion type hazard, similar to grain dust.

Specific Gravity (Water=1) Not Available

% Volatiles by Volume Not Available

Formula Not Available

Molecular Weight Not Available

Section 10 - Stability and Reactivity

Not Available Reactivity

Stability Product is stable

Possibility of Hazardous

Reactions

Not Available

Conditions to Avoid Not Available

Incompatible Materials Acids or alkaline products may inactivate biological cultures.

Hazardous Decomposition

Products

Oxides of carbon

Section 11 - Toxicological Information

Acute Toxicity

Component Oral LD₅₀ Inhalation LC₅₀ Dermal LD₅₀

B250 Enzymes Not Available Not Available Not Available

Chronic Toxicity – Carcinogenicity

Component **IARC**

B250 Enzymes None of the components present in this material at

concentrations equal to or greater than 0.1% are listed by

IARC, NTP, or OSHA, as a carcinogen.

Skin Corrosion/Irritation Mild irritant with excessive contact.

Ingestion Considered non-toxic but may cause nausea or diarrhea and irritation to gastrointestinal

tract.

May cause irritation if dust is inhaled. Inhalation

Serious Eye Damage/Irritation Mild irritant with excessive contact.

Not Available Respiratory or Skin Sensitization **Germ Cell Mutagenicity** Not Available

Mild irritation to mucous membranes with excessive contact. **STOT-Single Exposure**

Not Available

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

Section 12 - Ecological Information

Ecotoxicity

Reproductive Toxicity

Component **Toxicity to Algae Toxicity to Fish**

Toxicity to Daphnia and Other Aquatic Invertebrates Not Available

B250 Enzymes

Not Available

Not Available

Biodegradability Product is biodegradable

Bioaccumulation Not Available

Mobility Not Available

Other Adverse Effects Minimal impact to the environment as bacterial cultures are naturally occurring organisms.

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 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) TOXNET4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

ClearTech Industries Inc. - Locations

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