Material Safety Data Sheet

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product Name: POULTRY-FEED
Reference Number: NA
Manufacturer: Bionetix International
21 040 rue Daoust, Sainte-Anne-de-Bellevue, QC, Canada H9X 4C7
Emergency Tel.: 514.457.2014
E-mail Address: info@bionetix.ca
Intended Use: Direct-fed microbial
Date of MSDS: 2008-07-15
Emergency Tel.: CANUTEC : 613.996.6666

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS No.</th>
<th>CONTENTS (% by weight)</th>
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<tbody>
<tr>
<td>Viable bacterial culture</td>
<td>N/A</td>
<td>90</td>
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3. HAZARD IDENTIFICATION

Bacterial Culture: non-pathogenic

4. FIRST AID MEASURES

Eye Contact: May cause irritation. Flush with water for at least 15 min. Contact physician.

Skin Contact: Exposure can cause skin irritation if the person has a history of dermal allergic reaction. Wash with soap and water. Limit exposure. Use rubber gloves. Do not handle directly.

Inhalation: Causes irritation. Calm the individual. Allow plenty of air and loosen clothing around the neck. Contact a physician. Use approved respiratory mask. Avoid creating dust where possible. Use in properly ventilated area. Treat as you would any chemical or biological material. Always wash hands thoroughly after use.

Ingestion: Considered non-toxic. May lead to nausea or diarrhea. Give two glasses of water to dilute product; do not induce vomiting. Contact physician immediately. Store in a safe place. Wear protective mask.

5. FIRE-FIGHTING MEASURES

Fire: The product is non-flammable. Extinguishing media: use water, chemicals, CO₂.

Hazard: Degradation products: None. All dusts from grain products are highly explosive at critical dust to air concentrations.

Protection

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None.

Spills and Leaks: Materials may be swept or scooped into a container for disposal. Avoid creating dust.

Environmental Protection: Dispose of material according to pollution control authorities. Materials as shipped may be disposed of in sanitary landfill.
7. HANDLING AND STORAGE
Handling  No danger from handling packaged materials. Ensure packed containers remain sealed. Avoid unnecessary product agitation to keep dust level as much below TLV as possible.
Storage    Store in a dry conditions, avoiding moisture.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION
Gloves: None
Respiratory Protection: General all-purpose dust mask or respirator as desired.
Eyes: Protection required when potential for eye contact.
Other: Local exhaust for ventilation. Safety shower and eye bath. Use good manufacturing practices.

9. PHYSICAL AND CHEMICAL PROPERTIES
Appearance: Buff to tan powder/granule
Odor: NA
Boiling Point/Range: NA
Specific Gravity: NA
Melting Point: NA
Flash Point: NA
Flammability: NA
Auto-ignition Temperature: NA
Explosive Limits: NA
Oxidizing Properties: None
Vapor Pressure: NA
Vapor Density: NA
Solubility: Soluble in water
Partition Coefficient: NA
Viscosity: NA
Bulk Density: 0.65 – 0.8 g/cm³

10. STABILITY AND REACTIVITY
Stability: Stable
Decomposition Products: See fire degradation products.
Reactivity: NA
Conditions to avoid: Strong oxidizing agents, high temperatures, moisture

11. TOXICOLOGICAL INFORMATION
Routes of Entry: Eye contact, ingestion and skin contact
Toxicity for Animals: NA
Acute Effects: May irritate eyes upon contact. If ingested may cause discomfort, diarrhea and nausea. Skin exposure can cause irritation if history of dermal allergic reaction.
Toxicological Effects: Low Acute oral toxicity although ingestion will cause irritation of the gastrointestinal tract and may result in nausea and diarrhea. May cause mild mechanical irritation to eyes, skin and mucous membranes. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.
LD₅₀ oral-rat skin-rabbit

12. ECOLOGICAL INFORMATION
Environmental Effects: Minimal impact under normal conditions of use and storage.
Mobility: Disperses in water
Degradability: Contents are biodegradable.
Bio-accumulative Properties: Not likely
Aquatic Toxicity: Not known
13. DISPOSAL CONSIDERATIONS

Substance: Via an authorized waste disposal contractor to an approved waste disposal site, observing all pollution regulations.

Container: As substance.

14. TRANSPORT INFORMATION

Not regulated for transport

UN Number: Class:
Primary Hazard: Subsidiary Hazard:
Packing Group: Emergency Action Code:
H.I. Number: Marine Pollutant:
Proper Shipping Name:

15. REGULATORY INFORMATION

Hazard Symbols: NA
Risk Phrases: NA
Safety Phrases: NA
National Regulations: NA

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. OTHER INFORMATION

The product formulation contains a range of naturally occurring microorganisms which are known to be non-pathogenic to man or animals. The product has been shown to be free of Salmonella and Shigella using the procedures outlined by AOAC and the USDA. Further details may be available upon request from your local BIONETIX distribution site.

Notice to reader:
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.