MATERIAL SAFETY DATA SHEET

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Bioscience Inc.
1550 Valley Center Parkway, Suite 140
Bethlehem, PA 18017

Creation Date: 12/99
Review Date: 01/07

Information Phone Number: 800-627-3069
Emergency Phone Number: 800-424-9300

Bioscience Inc.

Commercial Product Name: MICROCAT®-PR Hydrocarbon Degrading Bioformula
Chemical Characterization: Non-pathogenic, naturally-occurring bacteria and degradation enzymes adsorbed on wheat bran and corn gluten

SECTION II – COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients: % by wt. CAS Number TLV (ACGIH): PEL (OSHA):

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by wt</th>
<th>CAS Number</th>
<th>TLV (ACGIH):</th>
<th>PEL (OSHA):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Urea</td>
<td>1-3</td>
<td>57-13-6</td>
<td>10 mg/m³ [3]*</td>
<td>15 mg/m³ [5]*</td>
</tr>
<tr>
<td>Diammonium Phosphate</td>
<td>&lt;1</td>
<td>7783-28-0</td>
<td>10 mg/m³ [3]*</td>
<td>15 mg/m³ [5]*</td>
</tr>
<tr>
<td>Dolomite</td>
<td>&lt; 45%</td>
<td>16389-88-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>&lt; .4%</td>
<td>14808-60-7</td>
<td>0.1 mg/m³</td>
<td>0.1 mg/m³</td>
</tr>
</tbody>
</table>

Non-hazardous Ingredients: Microorganisms and degradative enzymes absorbed on:
- Wheat bran 116469-86-4 10 mg/m³ (nuisance dust)
- Corn gluten 66071-96-3 10 mg/m³ (nuisance dust)
- Diatomaceous earth 91053-39-3

SECTION III – HAZARD IDENTIFICATION AND FIRST AID PROCEDURES

The microbes in this product are Class 1 microbes, defined by the US Centers for Disease Control as not likely to cause disease in healthy humans and animals. However, persons who have a compromised immune system or a history of severe allergic response should avoid contact with open wounds and/or breathing dust or mist from product handling or manufacturing processes.

INHALATION: May cause sensitization by inhalation in hypersensitive individuals. Avoid product handling which results in dust generation. If inhaled, remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.

EYE CONTACT: Product may cause eye irritation. Direct contact with eyes should be avoided. In case of contact with eyes, flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT: Product may cause skin irritation. Direct contact with skin should be avoided. In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash.

SWALLOWING: Ingestion of material may cause mouth and throat irritation and/or gastric disturbance. If swallowed, rinse mouth and throat with tap water. Drink water.

SECTION IV - FIRE FIGHTING MEASURES

HMIS Rating: Health – 1 Flammability – 1 Reactivity - 0
Flash Point: Not Available Flammable Limits: Not Available
Extinguishing Media: Dry chemical, carbon dioxide, chemical foam or water fog

SECTION V – ACCIDENTAL RELEASE MEASURES

AFTER SPILLAGE: Spilled product should be removed immediately to avoid formation of dust. Contain spill, sweep up avoiding airborne dust. Provide sufficient ventilation.

FIRST AID: In case of contact with skin, wash with soap and water. If symptoms occur, seek medical attention. In case of contact with eyes, rinse with plenty of water for at least 15 minutes and see an eye specialist if irritation persists. In case of inhalation, remove to fresh air. In case of ingestion, drink water. If symptoms occur, seek medical assistance. If symptoms of irritation or sensitization occur (shortness of breath, wheezing, labored coughing) take individual to emergency room.
SECTION VI – PERSONAL PROTECTION/HANDLING AND STORAGE

TECHNICAL PROTECTIVE MEASURES: Avoid creating dust. Adequately ventilate when handling this product. Provide eyewash capability.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT:

- **RESPIRATORY PROTECTION:** Dust mask or respirator for particle removal (NIOSH)
- **SKIN PROTECTION:** Wear long-sleeve shirt, trousers, safety shoes and gloves (rubber or vinyl)
- **EYE PROTECTION:** Safety glasses with sideshields or face shield

INDUSTRIAL HYGIENE: Maintain good housekeeping. Avoid dusty conditions. Wash hands and exposed skin after contact. Avoid contact with food or food preparation surfaces. If exposure of food surfaces occurs, wash with germicidal detergent or chlorine bleach. Remove and wash contaminated clothing.

PROTECTION AGAINST FIRE AND EXPLOSIONS: No special requirements. Organic dusts are a weak explosion hazard. Not hazardous under normal storage and use conditions.

SECTION VII – PHYSICAL PROPERTIES

- **Color:** Tan
- **Form:** Granular, Powder
- **Odor:** Mild Odor
- **Solubility in Water:** <5%
- **Alternative Solvent:** N/A
- **pH Value (1% suspension):** 6-9

SECTION VIII – TOXICOLOGICAL INFORMATION

Enzymes in this product are non-toxic (LD 50 > 2 g/kg in rats). Inhalation of dust may cause respiratory allergy in susceptible individuals.

- **Carcinogenicity:**
  - **NTP:** No
  - **IARC Monographs:** No
  - **OSHA Regulated:** No

Product may contain <1% crystalline silica (CS). IARC has classified CS as probably carcinogenic for humans (2A). NTP lists CS as a substance which may reasonably be anticipated to be a carcinogen. CS is a known cause of silicosis (a non-cancerous lung disease).

SECTION IX – INFORMATION ON ECOLOGICAL EFFECTS

Product is readily biodegradable

SECTION X - DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with current local authority regulations.

SECTION XI - TRANSPORT CLASSIFICATION

- **DOT Hazard Class:** N/A
- **DOT Label:** N/A
- **DOT Proper Shipping Name:** Chemicals not other wise indexed (NOI) non-hazardous
- **Reportable Quantity:** N/A

SECTION XII – REGULATORY INFORMATION

Canadian WHMIS: Toxic Class D2B (eye irritant)

SECTION XIII - FURTHER INFORMATION

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications; for this information contact Bioscience, Inc. Technical Department.

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