



MATERIAL SAFETY DATA SHEET

SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer:
Microspring International, LLC
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Commercial Product Name: PROBAC Septic Formulation

Chemical Characterization: Non-pathogenic naturally-occurring microorganisms and degradation enzymes adsorbed on wheat bran and corn gluten mixed with bicarbonate salts.

SECTION II – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	% by wt.	CAS No.	TLV (ACGIH)	PEL (OSHA)
Protease	<1	9014-01-1	0.00006 mg/m ³ (C)**	none established
Amylase	<1	9000-90-2	none established	none established
Wheat bran		116469-86-4	10 mg/m ³ {3}*	15 mg/m ³ {5}*
Corn gluten		66071-96-3	10 mg/m ³ {3}*	15 mg/m ³ {5}*
Diatomaceous earth		91053-39-3	none established	<u>80 mg/m³</u> %SiO ₂
Bicarbonate salts			none established	none established

*Specific limits not set for these chemicals. Limits shown are for Particulates Not Otherwise Regulated (PNOR) or Particulates Not Otherwise Classified (PNO). First number is for total dust and second number in {} is for respirable dust.

** As Subtilisins (proteolytic enzymes). Ceiling concentration.

SECTION III – PHYSICAL PROPERTIES

Color: Blue **Form:** Fine Powder **Odor:** Yeast Odor
Solubility in Water: <60% **Alternative Solvent:** N/A **pH Value (1% suspension):** 6-9
Boiling Point: No Data **Vapor Pressure:** No Data **Vapor Density:** No Data
Stability: Stable under normal conditions **Hazardous polymerization:** Will not occur
Hazardous decomposition or byproducts: None
Incompatibility (materials to avoid): Strong acids or alkali compounds may inactivate product.

SECTION IV – HEALTH HAZARD IDENTIFICATION & 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. Seek immediate medical attention if allergic response (shortness of breath, wheezing, labored coughing) is exhibited.

Eye Contact: Product may cause eye irritation. Direct contact with eyes should be avoided. In case of contact with eyes, flush the 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. If symptoms occur, seek medical attention.

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. If symptoms occur, seek medical assistance.

Product is not listed with IARC, NTP, ACGIH or OSHA as a carcinogen. However, 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 V - 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

Unusual Fire and Explosion Hazard: No special requirements. Organic dusts are a weak explosion hazard. Not hazardous under normal storage and use conditions.

SECTION VI – 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.

SECTION VII – PERSONAL PROTECTION/HANDLING AND STORAGE

Technical Protective Measures: Avoid formation of dust. Provide adequate ventilation of the room when handling this product. Provide eyewash capability.

Recommended Personal Protective Equipment:

Respiratory Protection: Approved (NIOSH) dust mask or respirator for particle removal.

Skin Protection: Wear long-sleeve shirt, trousers, safety shoes, gloves (rubber or vinyl).

Eye Protection: Safety glasses with sideshields, goggles or faceshield

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 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.

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 otherwise indexed (NOI) non-hazardous Reportable

Quantity: N/A

IMDG: Not dangerous goods

IATA: Not dangerous goods

SECTION XII – REGULATORY INFORMATION

Canadian WHMIS: Controlled product Hazard Class D2A (respiratory sensitizer)

CA PROPOSITION 65: Not listed

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

TSCA inventory: Some of the ingredients in this product are listed.

SARA 302/304/311/312 extremely hazardous substances: None.

SARA 302/304 emergency planning and notification: None.

SARA 302/304/311/312 hazardous chemicals: None.

SARA 311/312 MSDS distribution, chemical inventory, hazard identification: None.

SARA 313 toxic chemical notification and release reporting: None.

CWA: None.

CAA 112: None.

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.

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Prepared by:

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