



BOVAMINE DEFEND[®] PREMIX

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAMES: *Lactobacillus acidophilus* and *Propionibacterium freudenreichii* **MANUFACTURER:** Nutrition Physiology Company, LLC & Guardian Food Technologies
SYNONYMS: Lactic acid bacteria and Propionic acid bacteria 4550 West 109th Street, Suite 110
PRODUCT CODE: BDPM-151 Overland Park, KS 66211
CHEMTREC PHONE: 1-800-424-5200 217-424-5200
PRODUCT USE: Beef cattle feed additive

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Rice hulls, calcium carbonate, lactic acid bacteria, propionic acid bacteria, silicon dioxide, and mineral oil.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not applicable

Appearance: White to Light yellow

Physical State: Powder to Granular

Odor: Odorless

POTENTIAL HEALTH EFFECTS

Principle Route of Exposure: Not applicable

Acute Effects:

EYES: This product may have a drying effect on eyes.

SKIN: This product may have a drying effect on skin.

INGESTION: Not applicable

INHALATION: Not applicable

CHRONIC HEALTH HAZARDS: Not applicable

CARCINOGENICITY: There are no known carcinogenic chemicals of this product.

OSHA: Not Listed

ACGIH: Not listed

NTP: Not listed

IARC: Not listed

OTHER:

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water.

SKIN: Wash off immediately with soap and plenty of water.

INGESTION: Do not induce vomiting.

INHALATION: Supply fresh air.

SECTION 5: FIRE-FIGHTING MEASURES

Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Not applicable



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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry location

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Ventilation:	Not applicable	Skin protection:	Not applicable
Respiratory protection:	Not applicable	Work hygienic practices:	Not applicable
Eye protection:	Not applicable		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to Light yellow	Vapor Density (Air = 1):	No information available
Odor:	Odorless	Specific Gravity (H ₂ O = 1):	No information available
Physical State:	Dry Powder to Granular	Evaporation Rate:	No information available
pH :	No information available	Solubility in Water:	No information available
Boiling Point:	No information available	Autoignition:	No information available
Melting/Freezing Point:	No information available	Explosion Limits:	No information available
Vapor Pressure (mmHg):	No information available		

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID (STABILITY):	Not applicable
INCOMPATIBILITY (MATERIAL TO AVOID):	None known
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	No information available
HAZARDOUS POLYMERIZATION:	Does not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity Product Information

LD50 Oral:	No information available
LD50 Dermal:	No information available
LD50 Inhalation:	No information available

Chronic Effect:

Carcinogenicity: There are no known carcinogenic chemicals in this product.

Subchronic Toxicity:	No information available	Irritation:	No information available
Corrosivity:	No information available	Sensitization:	No information available
Neurological Effects:	No information available	Mutagenic Effects:	No information available
Reproductive Effects:	No information available	Developmental Effects:	No information available
Teratogenicity:	No information available	Target Organ Effects:	No Information available



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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Contains no substances known to be hazardous to the environment.
	Contains no substances known to be not degradable in waste water treatment plants.
Persistence / Degradability:	Readily biodegradable
Bioaccumulation / Accumulation:	Not applicable
Mobility:	This product is soluble in water

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Dispose in compliance with the laws and regulations pertaining to this product in your jurisdiction.
Contaminated Packaging:	Empty containers should be taken to local recycling, recovery or waste disposal.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: DOT Not regulated

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:	<i>P. freudenreichii, L. acidophilus</i>
TSCA (TOXIC SUBSTANCE CONTROL ACT):	No
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):	No
311/312 HAZARD CATEGORIES:	No
313 REPORTABLE INGREDIENTS:	No

STATE REGULATIONS: Proposition 65 chemicals are not expected to be found in this product.

Propionibacterium freudenreichii and *Lactobacillus acidophilus* are considered GRAS (Generally Recognized As Safe) by the FDA.

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: Nutrition Physiology Company, LLC

DISCLAIMER: The information provided in this MSDS is correct to the best of our knowledge, information and belief at the date this was published. The information was based on available information known on the contents and provided by suppliers. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and it is not considered as a warranty or quality specification #. The information relates only to the specific contents as designated and may not be valid for such materials used in combination with any other materials unless specified.

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