



## MATERIAL SAFETY DATA SHEET

ISSUED SEPTEMBER 2018

PRODUCT NAME: BRF-2 SUPERBUGS MIX

PRODUCT CODE: 04

DESCRIPTION: Bacteria of the Bacillus species on a wheat-bran base.

### SECTION II - - HAZARDOUS INGREDIENTS

INGREDIENT	Cas No.:	%	TLV(ACGIH)
VIABLE BACTERIAL CULTURES (ON WHEAT BRAN BASE)	N/A 116469-86-4	100%	N/A

Ingredients not precisely identified are proprietary and non-hazardous. All chemical ingredients appear on the EPA TSCA Inventory. Values are not product specifications. GT=Greater Than, LT=Less Than, N/A=Not Available.

### SECTION III - - PHYSICAL DATA

Boiling point: NO DATA.

pH: 6.5-8.5.

Vapor Pressure (mmHG at 20C): No Data. Vapor Density (Air=1): No Data.

Bulk Density: Approximately 0.66-0.77 gm/cm<sup>3</sup>

Solubility in Water: MODERATE-CONTAINS VIABLE BACTERIA.

Appearance and Odor: FREE-FLOWING, TAN/BROWN POWDER, YEAST-LIKE ODOR. NFPA Rating (0-4): Health=1, Fire=1, Reactivity=0.

### SECTION IV - - FIRE AND EXPLOSION HAZARD DATA

Auto-Ignition Temperature: NO DATA. Flash Point and Method: No Data.

Extinguishing Media: WATER, CARBON DIOXIDE, DRY CHEMICAL POWDER.

Special Fire-fighting Procedures: NONE.

Unusual Hazards: NONE KNOWN.

### SECTION V - - REACTIVITY DATA

Stability: STABLE UNDER NORMAL CONDITIONS.

Hazardous

Polymerization: WILL NOT OCCUR.

Conditions to Avoid: NONE.

Materials to Avoid: STRONG ACID OR ALKALI COMPOUNDS MAY INACTIVATE BIOLOGICAL CULTURES.

Hazardous Decomposition Products: NONE.

### SECTION VI - - TOXICITY INFORMATION

Acute Toxicity:

Ingestion: NO EFFECT IF INGESTED IN SMALL AMOUNTS. RELATIVE TO OTHER MATERIALS, A SINGLE DOSE OF THIS PRODUCT IS RARELY TOXIC BY INGESTION. IRRITATION OF THE MOUTH, PHARYNX, ESOPHAGUS, AND STOMACH CAN DEVELOP FOLLOWING INGESTION.

Inhalation: PRODUCT MAY PRODUCE NUISANCE DUST WHICH WILL IRRITATE RESPIRATORY PASSAGES.



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Skin Contact: SLIGHT REDNESS ON HANDS AND FOREARMS IF INDIVIDUAL HAS A HISTORY OF DERMAL ALLERGIC REACTION. DERMATITIS AND SKIN SENSITIZATION CAN DEVELOP AFTER REPEATED AND/OR PROLONGED USE.

Skin Absorption: SYSTEMICALLY TOXIC CONCENTRATIONS WILL PROBABLY NOT BE ABSORBED THROUGH THE SKIN IN HUMAN SUBJECTS.

Eye Contact: THIS MATERIAL MAY CAUSE EYE IRRITATION. ORGANISMS USED ARE NON-PATHOGENIC BUT CAN CAUSE INFECTION WHEN IN CONTACT WITH OPEN WOUNDS. THESE ORGANISMS ARE SUSCEPTIBLE TO MANY COMMONLY-USED ANTI-BIOTICS.

Chronic Toxicity: NONE.

Mutagenicity: NONE.

## SECTION VII - - FIRST AID

Ingestion (swallowing): NO APPLICABLE DATA.

Inhalation (breathing): REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

Skin Contact: REMOVE CONTAMINATED CLOTHING AND FOOTWEAR. WASH SKIN WITH PLENTY OF SOAP AND WATER. WASH CLOTHING AND FOOTWEAR BEFORE RE-USE.

Eye Contact: IMMEDIATELY FLUSH WITH PLENTY OF WARM WATER FOR AT LEAST 15 MINUTES AND HAVE EYES EXAMINED AND TREATED BY A PHYSICIAN.

## SECTION VIII - - SPECIAL PROTECTION INFORMATION

TLV or Suggested Control Value: NO TLV ASSIGNED TO THIS MIXTURE. CONTROL OF EXPOSURE TO BELOW THE TLV FOR THE INGREDIENTS (SEE SECTION 2) WILL BE SUFFICIENT. MINIMIZE EXPOSURE IN ACCORDANCE WITH GOOD HYGIENE PRACTICES. AVOID HANDLING WHICH WOULD CREATE LARGE AMOUNTS OF DUST. USE APPROVED RESPIRATOR FOR NUISANCE DUST. TO MAINTAIN SHELF LIFE, AVOID LONG EXPOSURES TO HIGH TEMPERATURES AND HUMIDITY. THE ACGIH TLV'S SHOWN ARE ALSO OSHA/PEL'S (PERMISSIBLE EXPOSURE LIMITS).

Ventilation: GENERAL MECHANICAL VENTILATION.

Respiratory Protection: DO NOT INHALE MIST WHEN SPRAYING PRODUCT. USE MSHA-NIOSH-APPROVED RESPIRATORY EQUIPMENT WHEN SPRAYING.

Eye Protection: KEEP OUT OF EYES. SAFETY GOGGLES ARE RECOMMENDED.

Protective Clothing: TAKE ALL PRECAUTIONS TO PREVENT SKIN CONTACT. WEAR LONG-SLEEVE CLOTHING.

Other Protective Equipment: AS DETERMINED OR RECOMMENDED BY FEDERAL, STATE, AND LOCAL REGULATIONS.

## SPILL OR LEAK PROCEDURES:

Steps Recommended: SWEEP UP SPILL, TAKING CARE TO AVOID BREATHING NUISANCE DUST. WEAR A DUST PROTECTOR. RINSE FROM SKIN WITH WARM WATER. FLUSH SMALL SPILLS TO WASTE TREATMENT SEWER (PRODUCT IS BIODEGRADABLE). COLLECT LARGE SPILLS FOR RE-USE. DISPOSAL OF THIS PRODUCT AND ITS RESIDUE MUST BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS.

## SPECIAL PRECAUTIONS:



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Handling and Storage: KEEP CONTAINERS CLOSED WHEN NOT IN USE TO PREVENT CONTAMINATION OF THE PRODUCT AND MINIMIZE RISK OF SPILLS. USE GOOD INDUSTRIAL HYGIENE PRACTICES. STORE IN COOL, DRY AREA.

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