



Effective Microorganism™ Technology

## Material Safety Data Sheet (MSDS)

PRODUCT NAME: EM Livestock ®

COMMON NAME: EM, EM Livestock

PRODUCED BY:

Belize Agro-enterprise Limited (BAEL)  
Phone: (501) 822-3518 or 662-3518  
#1 Sibun Street, formerly #18 Haulover Creek Road, Belmopan City  
Cayo District, Belize Central America

### SECTION I - PRODUCT IDENTIFICATION

GENERAL OR GENERIC NAME: Animal Probiotic

COMPOSITION: Fermented organic material: Lactic Acid Bacteria, Yeast, Phototrophic Bacteria

HAZARD RATING:

HEALTH - 0 Normal Material

FIRE - 0 Will not burn

REACTIVITY - 0 Stable

### SECTION II - HAZARDOUS INGREDIENTS

If present, carcinogens and chemicals subject to reporting are identified in this section:

INGREDIENTS % (By Volume)

Note: No hazardous ingredients present; not hazardous to humans, animals or plants.

### SECTION III - PHYSICAL DATA

BOILING POINT: >100 °C

SPECIFIC GRAVITY: 1.2 (25°C)

VAPOR PRESSURE: N/D

SOLUBILITY IN WATER: Complete

VAPOR DENSITY: Air = 1

MELTING POINT: N/A

% VOLATILE BY VOLUME: 0

EVAPORATION RATE: Equal to water

APPEARANCE AND ODOR: Brown liquid; mild pH OF SOLUTION: 3.5 – 4.5

#### SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT: N/A  
EXPLOSION LIMIT: 0  
EXTINGUISHING: N/A  
FIRE FIGHTING PROCEDURES: N/A  
SPECIAL FIRE & EXPLOSION HAZARDS: None  
HAZARDOUS DECOMPOSITION BYPRODUCTS: None

#### SECTION V - HEALTH HAZARD DATA

HEALTH HAZARDS: None  
CARCINOGENICITY: Non-carcinogenic  
EFFECTS OF CHRONIC OVEREXPOSURE: None  
PERMISSIBLE EXPOSURE LEVEL: None; see Section II  
PRIMARY ROUTES OF ENTRY: Skin contact, Eye contact, Ingestion, Inhalation  
SIGNS AND SYMPTOMS OF EXPOSURE:  
SKIN - None  
EYES - May cause eye irritation  
INHALATION - None  
INGESTION - May cause gas  
FIRST AID:  
IF ON SKIN - None  
IF ON EYES - Flush with fresh water  
IF INHALED - None  
IF INGESTED - Drink fresh water

#### SECTION VI - REACTIVITY DATA

INCOMPATIBILITY: None  
HAZARDOUS POLYMERIZATION: Will not occur  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None; biodegradable  
STABILITY: Stable, not affected by freezing. No toxic fumes.

#### SECTION VII - SPILL OR LEAK PROCEDURES

IN CASE OF LEAK OR SPILL: Mop up with fresh water, sewer disposal  
WASTE DISPOSAL METHOD: Sewer disposal  
HANDLING AND STORING PRECAUTIONS: Store at room temperature  
OTHER PRECAUTIONS: Not recommended for human consumption

#### SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: None  
VENTILATION: None  
PROTECTIVE GLOVES: Optional  
EYE PROTECTION: Safety glasses recommended  
PROTECTIVE CLOTHING: None  
WORK PRACTICES: Clean up spills immediately; floor will be slick

#### SECTION IX – TRANSPORT INFORMATION

SHIPPING CLASSIFICATION: Non Hazardous  
REFRIGERATION: Not Applicable (Not Recommended)