



## MATERIAL SAFETY DATA SHEET

### EM Ready to Use - Soil & Crop

PREPARED: February 2024  
PRODUCT NAME: EM-Soil & Crop "Ready to Use"  
ALTERNATIVE NAME: Expanded Effective Microorganisms  
Activated Effective Microorganisms  
PRODUCED BY: Naturefarm Limited (EMNZ)  
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### SECTION I - PRODUCT IDENTIFICATION

GENERAL OR GENERIC NAME: Effective Microorganisms Fermented Formulation  
GENERAL DESCRIPTION: Liquid Microbial Soil Conditioner  
Liquid Microbial Waste Treatment  
UN NUMBER: None  
DANGEROUS GOODS CLASS: None  
HAZCHEM CODE: N/A  
POISONS SCHEDULE NO. N/A  
USE: Activate Soil life, promote plant growth, soil remediation, improve fertiliser response, improve pasture and crop yields  
MAXIMUM DOSAGE RATE: 1000ppm Usual Maximum Dose  
HAZARD RATING: HEALTH: 0 Normal Material  
FIRE: 0 Will not burn  
REACTIVITY: 0 Stable  
PRECAUTIONARY LABELLING: None required

### SECTION II - HAZARDOUS INGREDIENTS

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

<u>INGREDIENTS</u>	<u>%(By Volume)</u>	<u>Note</u>
Yeasts	Less than 1%	Non-Toxic
Lactobacillus	Less than 1%	Non-Toxic
Photosynthetic Bacteria	Less than 1%	Non-Toxic
Fungi	Less than 1%	Non-Toxic
Molasses	Less than 5%	Non -Toxic
Water	About 95%	Non-Toxic

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

### SECTION III - PHYSICAL DATA

APPEARANCE/ODOUR: Reddish Brown Colour / Fermented Fragrance  
FREEZING POINT: 0 degrees Celsius  
BOILING POINT: 100 degrees Celsius  
VAPOUR PRESSURE: As Water  
VAPOUR DENSITY: As Water  
SPECIFIC GRAVITY: 1.2 (25°C)  
SOLUBILITY IN WATER: Complete  
% VOLATILE BY VOLUME: 0  
EVAPORATION RATE: Equal to water  
pH OF SOLUTION: 3.2 – 3.8

### SECTION IV - FIRE AND EXPLOSION INFORMATION

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

### SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: None; see Section II  
HEALTH HAZARDS: None  
CARCINOGENICITY: Non-carcinogenic  
EFFECTS OF CHRONIC OVEREXPOSURE: None  
PRIMARY ROUTES OF ENTRY: Skin contact, Eye contact, Ingestion, Inhalation

#### SIGNS AND SYMPTOMS OF EXPOSURE:

SKIN: None  
EYES: May result in mild irritation--Avoid contact with water-based contact lenses  
INHALATION: None  
INGESTION: May cause nausea if swallowed

#### FIRST AID:

IF ON SKIN: None  
IF ON EYES: Flush with fresh water  
IF INHALED: None  
IF INGESTED: If swallowed, do not induce vomiting.  
Give a glass of water and seek Medical Advice.

### SECTION VI - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Will not occur  
STABILITY: Stable. No toxic fumes.  
INCOMPATIBILITY: None  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None; biodegradable  
MATERIALS TO AVOID: None

## 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, as liquid has a low pH.
PROTECTIVE CLOTHING:	None
WORK PRACTICES:	Clean up spills immediately; floor will be slick

## SECTION IX – WASTE DISPOSAL INFORMATION

Dispose to sewer or with composted material

## SECTION IIX – WITHHOLDING PERIOD

Nil withholding period. For crops that are destined for human consumption ensure that crops are washed thoroughly before processing or consumption.

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