



MATERIAL SAFETY DATA SHEET

EM-Environment “Ready to Use”

PREPARED: February 2019
PRODUCT NAME: EM-Environment “Ready to Use”
ALTERNATIVE NAME: Expanded Effective Microorganisms
Activated Effective Microorganisms
PRODUCED BY: Naturefarm Limited (EMNZ)
11 Kingsley St
Christchurch
New Zealand
Phone 03 374 6323 or 029 9422 777
Email: mike@emnz.co.nz

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: Sludge reduction, Sewerage Pre-Treatment, Odour Reduction,
Waste Consumption, Soil Conditioner

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

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. NZNF accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.