

SAFETY DATA SHEET

Version 2.1 Revision Date 09/29/16

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:

EM•1 Microbial Inoculant

Product Number:

NA1USA8-112

Product Brand:

EM Technology™, EM™, Dr. Higa's Original®

Recommended Use:

Agriculture, animal husbandry and environmental restoration

Manufactured By:

EMRO USA, Inc. dba EMRO USA Effective Microorganisms

2440 N. Coyote Drive Suite 126

Tucson, AZ 85745

Phone: (520) 792-3143

Distributed By:

Teraganix Inc.

14193 US Highway 69 S

Alto, TX 75925

Phone: (817) 394-1426

Emergency Contact:

Phone: (866) 396-3678

2. HAZARD IDENTIFICATION

OSHA Hazards

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

GHS classification

Hazard categories: none

Acute toxicity: none

Skin corrosion/irritation: none

Specific target organ toxicity – repeated exposure: none

Hazard statements: not hazardous to humans, plants, or animals

May cause short-term eye irritation

May cause discomfort if swallowed in large amounts

Hazardous components which must be listed on the label

None

Precautionary statements

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym:

Liquid Microbial Inoculant

Chemical characterization:

Liquid

Hazard components

No ingredients are hazardous according to OSHA criteria.

4. FIRST AID MEASURES

General Information

No special measures required

If inhaled:

Move to a well ventilated area

In case of skin contact:

Wash skin with fresh water

In case of eye contact:

Flush eyes with water as a precaution

If swallowed:

Rinse mouth with water, and drink potable water

5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Extinguishing media:

Not applicable

Hazardous combustion products:

None

Advice for firefighters:

None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment as needed.

Environmental precautions

None

Methods and material for containment and cleaning up

Map spill with water and dispose in sewage.

7. HANDLING AND STORAGE

Precautions for safe handling

No special measures necessary.

Conditions for safe storage

Store at room temperature in original containers.

Keep containers closed when not in used.

Avoid extreme temperatures below 38°F and above 100°F.

Store in clean, dry areas away from toxic or harmful materials.

Incompatible products

Toxic substances such as bleach or antibacterial substances may affect viability of the product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Ensure adequate ventilation when working in confined areas.

General protection equipment such as closed shoes, gloves and goggles are recommended.

Hygiene measures

Handle in accordance with food industrial hygiene and safety practice.

Do not eat, drink or smoke while using the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state: Liquid

Appearance: Brown liquid

Odor: Sweet, mild fermented smell

Safety Data

pH of Solution: 3.1-3.5

Vapor Pressure: 3.17 kPa at 25°C

Vapor Density: Air = 1

Specific gravity: 1.2 (25°C)

Melting Point: N/A

Boiling Point: 100 °C

% Volatile by Volume: 0

Solubility in Water: Complete

Evaporation Rate: Equal to water

10. STABILITY AND REACTIVITY

Reactivity

None

Chemical stability

Stable under normal temperature and conditions of use

Possibility of hazardous reactions

None

Conditions to avoid

None

Materials to avoid

None

Hazardous decomposition products

None; biodegradable

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Not applicable

12. ECOLOGICAL INFORMATION

Toxicity

None

Persistence and degradability

Biodegradable

Bioaccumulative potential

No data available

13. DISPOSAL CONSIDERATIONS

Product

No special disposable method required.

Dispose of in accordance with local Waste Disposal Authority regulations.

Packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the substance or mixture

Not applicable.

OSHA Hazards

No known OSHA hazards.

SARA 311/312 Hazards

No SARA hazards.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. EMRO USA, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the product.

Preparation Information

EMRO USA, Inc

(520) 792-3143

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