



REBUILD. RESTORE. RENEW.

MATERIAL SAFETY DATA SHEET

I. Product Identification

PRODUCT NAME: **M-R-S #7** (Microbial Remediation Solution)

Manufacturer: Bio-S.I. Technology, LLC

P.O. Box 784

Argyle, Texas 76226

Active Ingredients: Enzymes with a broad and diverse population of naturally occurring soil microbes in water plus 1200 ppm natural humus.

II. Physical data

Boiling Point 212 Degrees F.

Solubility 100%

Vapor Pressure 17 mm hg

Sp. Gravity 1.050

Appearance and Odor: Dark brown with some earthy odor

III. Fire and Explosion Hazard Data

Flash Point

Non-flammable

Non-explosive

Special Fire Fighting Procedure

N/A

IV. Reactive Data

Stability

Stable

Non corrosive

Will stain porous surfaces and clothing

Incompatibility: Pesticides, fungicides, some herbicides (**always jar test**)

V. Health and First Aid Data

Ingestion: can cause diarrhea if ingested

Internal: Rinse mouth, consult Physician

Eye Contact: slight irritation

Eyes: Irrigate with water and consult Physician

Skin Contact: slight irritation

Skin: Wash with soap and water

KEEP OUT OF REACH OF CHILDREN

VI. Special Handling & Storage

Eye protection: goggles Hand protection: rubber gloves if abrasions exist. Avoid eye and skin contact Optimum

Storage: Store indoors in a shaded /cool area not above 130 degrees F. Do not store in direct sunlight due to possible overheating. ***DO NOT X-RAY* *DO NOT FREEZE***

VII. Spill or Leak procedures

Spill or leak: contain and mop or vacuum up into storage drum then rinse with water – No special disposal/handling procedures are required. Product may *stain porous surfaces and clothing*.

IX. Hazard Rating

1 - None 2 - Slight 3 - Moderate 4 - High 5 – Extreme

Toxicity – 1 Reactivity – 2 Environmental – 1

No warranty expressed or implied

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HAZARD RATING

0-None 1-Slight 2-Moderate 3-High 4-Extreme

<u>Hazard</u>	<u>Rating</u>
Fire	0
Toxicity	1
Reactivity	1

CAS No.: Not assigned/Mixture Chemical formula: Not listed OSHA PEL: None ACGIH TLV: None

PRODUCT NAME: Activator

Material or Component: Mixture of natural organic products in water with sub-bituminous humic and fulvic substance containing plant residues. Fulvic Acid ... 4.00% Manufactured by Ag & Organics, Edinburg, Texas.

Physical Data

Boiling Point.....212°F	Solubility in Water.....Soluble
Vapor Press.....N/A	Sp. Gravity.....1.1
Appearance.....Dark brown to black liquid	Evaporation rate.....STP
Odor.....Pungent	pH.....11-13

Fire and Explosion Hazard Data

Flash Point.....Nonflammable	Extinguishing Media.....N/A
Special Fire Fighting Procedure.....N/A	Unusual Fire and Explosion Hazard.....N/A

Reactive Data

Stability.....Stable	Hazardous Polymerization.....N/A
Incompatibility.....None	Hazardous Decomposition or Byproducts.....None

NOTE: Jar test before mixing with multiple chemicals

Health Hazard Data

Carcinogenicity.....None
Ingestion Symptoms.....Slight Irritation
Eye Contact Symptoms.....Slight Eye Irritation
Skin Contact Symptoms.....Slight Irritation

First Aid

Internal.....Rinse mouth, consult physician
Inhalation.....Remove to fresh air
Eyes.....Irrigate with water, consult physician
Skin.....Wash in flowing water

Precautions for Special Handling and Use

Eye Protection.....Goggles	Protective Clothing.....Rubber Gloves
Avoid Eye and Skin Contact	

Precautions to be taken in handling and storage: DO NOT FREEZE. WILL STAIN CLOTHING AND SURFACES. May be stored outdoors temporarily. Optimum Storage: Store indoors in a shaded and cool area.

Spill or Leak Procedures

ACTION TO TAKE FOR SPILLS: CONTAIN SPILL, MOP UP OR VACUUM. RECOVER, RECLAIM, & RECYCLE. DISPOSAL OF HUMIC ACID MAY BE SUBJECT TO FEDERAL, STATE, AND LOCAL REGULATIONS. USERS OF THIS PRODUCT SHOULD REVIEW THEIR OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGING OR DISPOSING OF WASTE MATERIAL.

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MATERIAL SAFETY DATA SHEET

HAZARD RATING

0-None 1-Slight 2-Moderate 3-High 4-Extreme

<u>Hazard</u>	<u>Rating</u>
Fire	0
Toxicity	0
Reactivity	0

CAS No.: Not assigned/Mixture Chemical formula: Not listed OSHA PEL: None ACGIH TLV: None

PRODUCT NAME: Melaco

Material or Component: Inverted syrup from the juice of sugarcane (molasses).

Physical Data

Boiling Point.....212°F	Solubility in Water.....Soluble
Vapor Press.....N/A	Sp. Gravity.....1.4
Appearance.....Dark brown viscous liquid	Evaporation rate.....STP
Odor.....Fruity sweet	pH.....5.1

Fire and Explosion Hazard Data

Flash Point.....Will burn under extreme heat	Extinguishing Media.....Water
Special Fire Fighting Procedure.....N/A	Unusual Fire and Explosion Hazard.....N/A

Reactive Data

Stability.....Stable	Hazardous Polymerization.....N/A
Incompatibility.....None	Hazardous Decomposition or Byproducts.....None

NOTE: Jar test before mixing with multiple chemicals

Health Hazard Data

Carcinogenicity.....None
 Ingestion Symptoms.....Slight Irritation
 Eye Contact Symptoms.....Slight Eye Irritation
 Skin Contact Symptoms.....Slight Irritation

First Aid

Internal.....Rinse mouth
 Inhalation.....N/A
 Eyes.....Irrigate with water
 Skin.....Wash in flowing water

Precautions for Special Handling and Use

Eye Protection.....Goggles	Protective Clothing.....Rubber Gloves
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Avoid Eye and Skin Contact

Precautions to be taken in handling and storage: Keep container vented to allow release of CO₂ produced by natural yeast.

May be stored outdoors temporarily. Optimum Storage: Store indoors in a shaded and cool area.

Spill or Leak Procedures

ACTION TO TAKE FOR SPILLS: CONTAIN SPILL, MOP UP OR VACUUM. RECOVER, RECLAIM, & RECYCLE. DISPOSAL OF HUMIC ACID MAY BE SUBJECT TO FEDERAL, STATE, AND LOCAL REGULATIONS. USERS OF THIS PRODUCT SHOULD REVIEW THEIR OPERATIONS IN TERMS OF APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, THEN CONSULT WITH APPROPRIATE REGULATORY AGENCIES BEFORE DISCHARGING OR DISPOSING OF WASTE MATERIAL.

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