

# SAFETY DATA SHEET

Rev Date: 01/16/19  
SDS 218

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

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**Product name:** E-Z Root™

**Company:** JRM CHEMICAL INC  
4881 NEO PARKWAY  
CLEVELAND, OH 44128

**Telephone:** 216-475-8488  
**Fax:** 216-475-6517  
**E-mail:** [jrm@en.com](mailto:jrm@en.com)

**Emergency 800-962-4010**

**Product Use:** product aid in commercial applications.

## 2. HAZARDS IDENTIFICATION

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**Appearance and Odor:**

**Form:** Powder

**Color:** Brown/Grey

**Odor:** Slight earth smell

**Potential Health Effects:**

None. See Section 11 for more information.

**Potential Physical/Chemical Effects:**

None.

**OSHA Regulatory Status:**

This material is not considered hazardous in accordance with OSHA 29 CFR 1910.1200.

**Potential Environmental Effects:**

None. See Section 12 for more information.

**Other information** No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Eight species blend of microbial biostimulants, kelp, dextrose, yeast, humic acid, protein, hydrolysate, bone meal, calcium, boron, sodium calcium Aluminosilicate (drying agent).

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**Regulated Components:**

None.

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**4. FIRST AID MEASURES**

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**Inhalation:** Move to fresh air.

**Skin contact:** Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.

**Eye contact:** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention.

**Ingestion:** Rinse mouth with water. Do not induce vomiting.

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**5. FIRE FIGHTING MEASURES**

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**Suitable extinguishing media:** Water. Water spray. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** None.

**Precautions:** Do not breath dust

**Special protective equipment for firefighters:** No special protective equipment required.

**Specific methods:** Keep personnel removed and upwind of fire.

**Specific hazards:** None

**Flash point (°C):** Not applicable.

**Auto ignition temperature (°C):** Not applicable.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions:** No special precautions required.

**Environmental precautions:** None

**Methods for cleaning up:** Do not flush with water. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

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**7. HANDLING AND STORAGE**

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**Handling:** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

**Storage:** Keep in a dry, cool and well-ventilated place. The recommended storage temperature is 5-30 °C.

**Technical measures/Precautions:** No special precautions required.

**Incompatible products:** Strong oxidizing agents. Acids.

**Technical measures/Storage conditions:** Keep lid on unused product, store in cool, dry location.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Occupational Exposure Limits:**

None.

**Engineering measures:** Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

**Personal protective equipment:**

**Respiratory protection:** Dust safety masks are recommended where concentration of total dust is more than 10 mg/m<sup>3</sup>.

**Hand protection:** None required

**Eye protection:** Safety glasses with side-shields. Do not wear contact lenses where this product is used.

**Skin and body protection:** None

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Form:</b>	Powder
<b>Color:</b>	Grey
<b>Odor:</b>	None
<b>pH:</b>	5 - 8 @ 5 g/L
<b>Melting point/range (°C):</b>	> 150°C
<b>Flash point (°C):</b>	Not applicable.
<b>Boiling point (°C):</b>	Not applicable
<b>Auto ignition temperature (°C):</b>	Not applicable.
<b>Vapor pressure (mm Hg):</b>	Not applicable
<b>Approx. bulk density:</b>	0.9
<b>Viscosity (mPa.s):</b>	See Technical Bulletin
<b>Water solubility:</b>	Soluble
<b>LogPow:</b>	-2

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**10. STABILITY AND REACTIVITY**

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**Stability:** Stable. Hazardous polymerization does not occur.

**Materials to avoid:** Strong oxidizing agents. Strong acids. Oxidizing agents may cause exothermic reactions.

**Hazardous decomposition products:** None.

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**11. TOXICOLOGICAL INFORMATION**

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### **Product Information**

**Acute toxicity:**

**Oral:** LD50/oral/rat > 10000 mg/kg

**Dermal:** LD50/dermal/rat > 5000 mg/kg

**Inhalation:** The product is not expected to be toxic by inhalation.

**Irritation:**

**Skin:** Not irritating.

**Eyes:** Not irritating.

**Sensitization:** Not sensitizing.

**Mutagenicity:** Not mutagenic.

**Carcinogenicity:** Not carcinogenic.

**Reproductive effects:** Not toxic for reproduction.

**Chronic toxicity:** No chronic effects.

## **12. ECOLOGICAL INFORMATION**

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### **Product Information**

**Aquatic toxicity:**

**Toxicity to fish:** LC50/Danio rerio/96 hours > 100 mg/L (OECD 203)

**Toxicity to daphnia:** EC50/Daphnia magna/48 hours > 100 mg/L (OECD 202)

**Toxicity to algae:** IC50/Scenedesmus subspicatus/72 hours > 100 mg/L (OECD 201)

**Environmental fate:**

**Persistence and degradability:** Biodegradable over time.

**Hydrolysis:** Does not hydrolyze.

**Bioaccumulation:** Does not bioaccumulate.

**LogPow:** -2

**LogKow:** Not determined.

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### **13. DISPOSAL CONSIDERATIONS**

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**Disposal:** Dispose of in accordance with local, state and federal regulations.

**Container:** Rinse empty containers with water and use the rinse water to prepare the working solution. Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

### **14. TRANSPORT INFORMATION**

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**DOT:**

Not classified as dangerous in the meaning of DOT regulations.

**IMDG/IMO:**

Not classified as dangerous in the meaning of IMO/IMDG regulations.

**ICAO/IATA:**

Not classified as dangerous in the meaning of ICAO/IATA regulations.

### **15. REGULATORY INFORMATION**

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**Product Information**

**US SARA Reporting Requirements:** None.

**RCRA status :** Not RCRA hazardous.

**SARA (Section 311/312) hazard class:** Not concerned.

**International Inventories:**

**USA (TSCA):** All components of this product are either listed on the inventory or are exempt from listing.

**China (IECSC):** All components of this product are either listed on the inventory or are exempt from listing.

**European Union (REACH):** All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

**Australia (AICS):** All components of this product are either listed on the inventory or are exempt from listing.

**Japan (ENCS):** All components of this product are either listed on the inventory or are exempt from listing.

**Korea (ECL):** Status not yet confirmed. For Research & Development purposes only.

**Philippines (PICCS):** Status not yet confirmed. For Research & Development purposes only

**Taiwan (CSNN):** All components of this product are either listed on the inventory or are exempt from listing.

**New Zealand (NZIoC):** All components of this product are either listed on the inventory or are exempt from listing.

### **16. OTHER INFORMATION**

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## 16. OTHER INFORMATION

### NFPA and HMIS Ratings:

#### NFPA:

Health:	0
Flammability:	0
Instability:	0

#### HMIS:

Health:	0
Flammability:	0
Physical Hazard:	0
PPE Code:	B

### This SDS was prepared in accordance with the following:

ISO 11014-1:Safety Data Sheet for Chemical Products ANSI  
Z400.1-2010; Safety Data Sheets - Preparation

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### Revision Number: 1

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.