

SAFETY DATA SHEET

Rev Date: 06/30/15
SDS 54

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name: **TRANSPLANT**

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

Telephone: 216-475-8488
Fax: 216-475-6517
E-mail: jrm@en.com

Emergency 800-962-4010

Product Use: product aid in commercial applications.

2. HAZARDS IDENTIFICATION

Appearance and Odor:

Form: Granular

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

Pisolithus tinctorius, Rhizopogon roseolus, Rhizopogon fulviglega, Rhizopogon villosuli, Rhizopogon amylopogon. Glomas mosseae, Contains Glomus intraradices, Glomus deserticola, Glomus etunicatum

Regulated Components:

None.

4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water. Water spray. Foam. Dry powder. Carbon dioxide (CO₂).

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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/m³.

Hand protection: PVC or other plastic material gloves.

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

Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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.

11. TOXICOLOGICAL INFORMATION

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

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.

13. DISPOSAL CONSIDERATIONS

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

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

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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NFPA and HMIS Ratings:

NFPA:

Health:	0
Flammability:	0
Instability:	0

HMIS:

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

This MSDS was prepared in accordance with the following:

ISO 11014-1: Material Safety Data Sheet for Chemical Products
ANSI Z400.1-2004; Material Safety Data Sheets - Preparation

Revision Number: 4

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.