

Safety Data Sheet

Liberate

SECTION 1: PRODUCT IDENTIFICATION

Distributor MORR, Inc.
6500 Flotilla Street
Commerce, CA 90040
Phone 855-TRY-MORR
24 Hr. Emergency Phone: 310-967-2022

Recommended use Plant root inoculant for hydroponic and soil operations

Generic name Liquid microbial inoculant

SECTION 2: HAZARD IDENTIFICATION

| Hazard | Rating | Definition |
|-------------|--------|-----------------|
| HEALTH | 0 | Normal Material |
| FIRE | 0 | Will Not Burn |
| INSTABILITY | 0 | Stable |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS# |
|-------------------------------|----------------|
| Water | 7732-18-5 |
| Blackstrap Molasses | 8052-35-5 |
| <i>Azotobacter vinelandii</i> | Not classified |

SECTION 4 – FIRST AID MEASURES

Skin Contact Rinse with fresh water

Eye Contact May cause eye irritation, flush with fresh water

Inhalation Move to fresh air

Ingestion Drink fresh water

SECTION 5 – FIRE-FIGHTING MEASURES

Classification of Substance or Mixture This product is non-flammable.

Extinguishing Media Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide.

Fire Fighting Methods and Protection Take same precautions as for fighting a fire with water.

Fire and/or Explosion Hazards None

Hazardous Combustion Products None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Refer to Section 8 – Exposure Controls and Personal Protection

In case of accidental spills

| | |
|------------------------------|--|
| Floors | Rinse area with water, mop and dispose in sewer. |
| Soil | Flush area with water |
| Waste disposal method | Sewer disposal. Material is biodegradable, non-GMO, all organic ingredients. |

SECTION 7 – HANDLING AND STORAGE

| | |
|---------------------|--|
| Handling | Store at room temperature between 39° - 90°F (4° - 32°C). Do not freeze. Keep container closed and out of direct sunlight. Use container made of plastic for activation to prevent activity loss prior to use. Apply at temperatures between 50° - 100°F (10° - 38°C). |
| Shelf Life | Activity is guaranteed for 3 years after the date of manufacture if the handling and storage recommendations are followed. Expiration date is printed on product label. |
| Storage Code | Green - General Chemical Storage |

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|-------------------------------|--|
| Eye Protection | Safety glasses recommended. |
| Protective Gloves | Optional. Skin absorption not likely. |
| Respiratory Protection | None |
| Ventilation | None |
| Protective Clothing | None |
| Work Practices | Clean spills immediately, floor will be slippery |

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|----------------|
| Formula | Proprietary |
| Boiling Point | 100°C |
| Melting Point | Not Applicable |
| Flash Point | None |
| Vapor Pressure | Not Determined |
| Specific Gravity (H₂O=1) | 1 (25°C) |
| Evaporation Rate | Equal to water |
| pH | 3.0 – 5.0 |
| Flammability Limits | Not Applicable |
| % Volatile by volume | 0 |
| Solubility in Water | Complete |
| Appearance | Brown liquid |
| Odor | Mild |

SECTION 10 – STABILITY AND REACTIVITY

| | |
|---|---|
| Incompatible Materials | None, non-reactive. |
| Chemical Stability | Stable. |
| Reactivity | Not reactive under normal conditions. |
| Hazardous Polymerization | Will not occur. |
| Hazardous Decomposition Products | None. Biodegradable, all-natural ingredients. |

SECTION 11 – TOXICOLOGICAL INFORMATION

| | |
|--------------------------|---|
| Routes of Entry | Inhalation and ingestion |
| Symptoms (Acute) | Coughing, abdominal discomfort (gas pains), loose stool |
| Displayed Effects | No long-term effects. |

Acute Toxicity:

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LD50 |
|-------------------------------|-------------------|------------------|--------------------|------------------------|
| Water | 7732-18-5 | Rat 90000 mg/kg | Not listed | Not listed |
| Blackstrap Molasses | 8052-35-5 | Not listed | Not listed | Not listed |
| <i>Azotobacter vinelandii</i> | none | Not listed | Not listed | Not listed |

Chronic Exposure:

| | |
|------------------------|--|
| Carcinogenicity | No known carcinogenic materials in this product. |
| Mutagenicity | No evidence of a mutagenic effect. |
| Teratogenicity | No evidence of a teratogenic effect. |
| Sensitization | No evidence of a sensitization effect. |
| Reproductive | No evidence of negative reproductive effects. |

Target Organ Effects:

| | |
|----------------|--|
| Acute | No evidence of acute effects on organs |
| Chronic | No evidence of effects on the eyes |

SECTION 12 – ECOLOGICAL INFORMATION

| | |
|------------------------|--|
| Overview | No ecological hazards known at any concentration. |
| Mobility | This material is expected to be moderately mobile in soils. It absorbs into most soil types. |
| Persistence | 100% Biodegradable |
| Bioaccumulation | Bioaccumulation is not expected to occur. |
| Degradability | Biodegrades quickly. |
| Ecotoxicity | No ecotoxicity data is available. |

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Methods Sewer disposal
Water Disposal Code This is an unregulated material.

SECTION 14 – TRANSPORT INFORMATION

UN Number Not classified as hazardous
DOT Shipping Name Not classified as hazardous
Transport Hazard Class Not classified as hazardous
Hazard Class Not classified as hazardous
Primary Hazard Label Not classified as hazardous
Subsidiary Risk Label Not classified as hazardous
WHMIS Classification Not classified as hazardous
Marine Pollutant Contains natural soil bacteria, fungi, and food-grade ingredients.
Generally considered chemically inert in the environment.

SECTION 15 – REGULATORY INFORMATION

OSHA Status Not considered hazardous by OSHA
TSCA Status Not on Toxic Substances Lists

SECTION 16 – OTHER INFORMATION

Prepared January 12, 2023