



Safety Data Sheet
MicroStart™ Wastewater
Proprietary Bacterial Inoculum

Section 1: Identification

1.1 PRODUCT IDENTIFIER:

Product Name: MicroStart
Product Number: Not available
CAS Number: Not applicable
Synonyms: Proprietary bacterial inoculum
Product Description: Wastewater proprietary bacterial inoculum
Product Type: Dry powder

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE/MIXTURE AND USES ADVISED AGAINST:

Product Uses: Wastewater proprietary bacterial inoculum

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Environmental Business Specialists, LLC
1930 Surgi Drive
Mandeville, LA USA 70448
E-mail: info@ebsbiowizard.com
Website: www.ebsbiowizard.com

1.4 EMERGENCY TELEPHONE NUMBER/S:

Emergency Phone Number: (800) 424-9300
(CHEMTREC)
Company Phone Number: (985) 674-0660
Company Fax Number: (985) 674-3483

Section 2: Hazards Identification

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Acute Toxicity, Oral Category 4: Harmful if swallowed.
Acute Toxicity, Dermal Category 5: May be harmful if contacts skin.
Acute Toxicity, Inhalation Category 5: May be harmful if inhaled.

2.2 LABEL ELEMENTS:

Signal Word: Warning.
Hazard Pictograms:



Hazard Statements: May cause slight irritation to eyes, skin, respiratory system, and digestive tract.

Precautionary Statement:

Prevention: Wear protective gloves. Wear eye and face protection.

Response: IF INGESTED, give large quantities of water to dilute. Consult a physician promptly. IF ON SKIN OR CLOTHING, immediately flush skin with water. If irritation persists, seek medical attention. IF IN EYES, immediately flush eyes thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.

Storage: Keep out of extreme temperatures. Avoid strong acids, alkali compounds, and oxides of carbon and nitrogen.

Disposal: Disposal is subject to federal, state, and local regulations.

2.3 OTHER HAZARDS:

Other Hazards That Do Not Result in Classification: Not applicable.

Section 3: Composition/Information on Ingredients

- 3.1 Proprietary biological inoculum contains bacteria, growth media, and nutrients. Concentrated Class 1 non-pathogenic bacterial cultures.

Compound	Percentage	CAS No.
Urea	6-12%	57-13-6
Sodium sesquicarbonate	5-10%	533-96-0-2
Manganese	<1%	7439-96-5
Copper	<1%	7440-50-8
Zinc	<1%	7440-66-6

Section 4: First Aid Measures

4.1 DESCRIPTION OF FIRST AID MEASURES:

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Examine and treat by medical personnel.

Skin Contact: Remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse.

Inhalation: Remove victim to fresh air.

Ingestion: May lead to nausea or diarrhea. Drink water to dilute. Call poison control center. Induce vomiting only if advised by physician or poison control center.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Potential Acute Health Effects

Eye Contact: Slight irritation.

Skin Contact: Skin irritation.

Inhalation: Slight hazard.

Ingestion: Material is slightly toxic.

Over-Exposure Signs/Symptoms

Eye Contact: Adverse symptoms may include the following: pain or irritation, watering, redness.

Skin Contact: Adverse symptoms may include the following: irritation, redness.

Inhalation: Not considered an inhalation hazard.

Ingestion: Adverse symptoms may include the following: nausea, diarrhea, and diuresis.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Notes to Physician: Treat symptoms. Contact poison control center immediately if large quantities have been ingested.

Specific Treatments: No specific treatment.

Section 5: Firefighting Measures

5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Dry chemical, CO₂, foam.

Unsuitable Extinguishing Media: All acceptable.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Hazards from the Substance or Mixture: Avoid temperature extremes. Avoid exposure to strong acids, strong bases, and strong oxidizing materials to prevent emission of carbon, nitrogen, and sulfur oxides.

Hazardous Combustion Products: Dust may be combustible.

FIREFIGHTING MEASURES CONTINUED:

5.3 ADVICE FOR FIREFIGHTERS:

Special Precautions for Firefighters: In event of fire, wear a NIOSH-approved self-contained breathing apparatus. Use water spray to keep containers cool.

Special Protective Equipment for Firefighters: NIOSH-approved self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Section 6: Accidental Release Measures

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

For Non-Emergency Personnel: Wear approved respirator for nuisance dust during cleanup.

For Emergency Responders: Refer to section 5.3 for specialized equipment.

6.2 ENVIRONMENTAL PRECAUTIONS:

No special precautions.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

Small Spills: Contain and collect for reuse.

Large Spills: Contain and collect for reuse if possible. Vacuum or absorb and dispose of according to federal, state, and local regulations. Avoid vegetation and waterways.

Accidental: In case of accident or road spill notify CHEMTREC (800-424-9300).

Section 7: Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING:

Protective Measures: Prevent skin and eye contact.

Advice on General Occupational Hygiene: Wash hands thoroughly with soap and water after use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:

Keep Out of Reach of Children. Store in a cool, dry, and well-ventilated area. Store in tightly closed container away from heat or ignition source.

7.3 SPECIFIC END USE(S):

Recommendations: Avoid containers, piping, or fittings made of brass, bronze, other copper bearing alloys, and galvanized metals.

Industrial Sector-Specific Solutions: Not available.

Section 8: Exposure Controls/Personal Protection

8.1 CONTROL PARAMETERS:

Occupational Exposure Limits: Minimize exposure in accordance with good hygiene practice.

8.2 EXPOSURE CONTROLS:

Appropriate Engineering Controls: Dust handling system is needed and/or local exhaust ventilation.

Individual Protection Measures

Hygiene Measures: Minimize exposure in accordance with good hygiene practice.

Eye/Face Protection: Safety goggles are recommended.

Skin Protection

Hand Protection: Gloves are recommended.

Body Protection: None required.

Respiratory Protection: Dust mask for limited exposure. For prolonged exposure, air purifying respirator or NIOSH/MSHA-approved respirators are recommended.

Section 9: Physical and Chemical Properties

- 9.1 Physical State:** Granular powder
Color: Straw
Odor: Musty
Odor Threshold: Not available.
pH (typical): 6.0 to 9.0 @ 1% in water
Melting Point/Freezing Point: Not available.
Boiling Point: Not available.
Flash Point: Non-flammable.
Evaporation Rate: Not applicable.
Flammable Limits: Not applicable.
Burning Time: Not available.
Burning Rate: Not available.
- Upper/Lower Flammability/Explosive Limits:** Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Density (lb/gal): 5.01
Solubility (ies): Dispersible in water
Partition Coefficient: n- octanol/water: Not available.
Auto-Ignition Temperature: Not available.
Decomposition Temperature: Not available.
Viscosity: Not available.
Specific Gravity (@ 60°F): 0.6 grams/cc

Section 10: Stability and Reactivity

- 10.1 REACTIVITY:** No specific reactivity data available for product or product ingredients.
- 10.2 CHEMICAL STABILITY:** Stable during normal use and storage.
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** Reacts with sodium or calcium hypochlorite to form explosive nitrogen trichloride. .
- 10.4 CONDITIONS TO AVOID:** Heat, sparks, flames, static electricity, and dust spread.
- 10.5 INCOMPATIBLE MATERIALS:** Strong acids or alkali compounds may inactivate cultures. Incompatible with aluminum powder, fluorine, and molten lithium.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** Combustion oxides of carbon, sulfur, and nitrogen may form; carbon dioxide, carbon monoxide, chlorous fumes.

Section 11: Toxicology Information

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Acute Toxicity:

Product/Ingredient Name	Result	Species	Dose	Exposure
MicroStart	N/A	N/A	N/A	N/A

Irritation/Corrosion:

Product/Ingredient Name	Result	Species	Dose	Exposure
MicroStart	N/A	N/A	N/A	N/A

Sensitizer: Not available.

Mutagenicity: None known.

Carcinogenicity: Not available.

Reproductive Toxicity: Not available.

Teratogenicity: Not available.

Specific Target Organ Toxicity (Single Exposure): Not available.

Specific Target Organ Toxicity (Repeated Exposure): Not available.

Aspiration: Not available.

INFORMATION ON TOXICOLOGICAL EFFECTS: CONT'D

Likely Routes of Exposure: Routes of entry include oral, dermal, and inhalation.

Potential Acute Health Effects

Inhalation: May cause allergic response in susceptible or hypersensitive individuals upon repeated or prolonged exposure.

Ingestion: May lead to nausea or diarrhea. Relative to other materials, this product is rarely toxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach may develop following ingestion.

Skin Contact: May cause slight irritation if prolonged exposure or if individual has a history of dermal allergic reaction.

Eye Contact: May cause irritation.

Symptoms Related to Physical, Chemical, and Toxicological Characteristics

Inhalation: Adverse symptoms may include nausea, vomiting, headache, bronchial irritation, wheezing, and/or tightening of the chest.

Ingestion: Adverse symptoms may include nausea, vomiting, headache, diarrhea, or diuresis.

Skin Contact: No specific data.

Eye Contact: Adverse symptoms may include pain, irritation, watering, or redness.

Delayed/Immediate Effects and Chronic Effects From Short and Long-Term Exposure

Short-term Exposure: Not available.

Long-term Exposure: Not available.

Potential Chronic Health Effects: Not available.

Section 12: Ecological Information

12.1 Toxicity: No toxicity studies have been conducted on this product.

12.2 Persistence and Degradability: Not available.

12.3 Bioaccumulative Potential: Not available.

12.4 Mobility in Soil: Not available.

12.5 Results of PBT and vPvB Assessment: Not available.

12.6 Other Adverse Effects: Proper use and disposal should not cause a significant environmental impact. Slightly toxic to non-toxic based on the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) acute toxicity ratings.

Section 13: Disposal Considerations

13.1 Product

Methods of Disposal: Disposal of this product or product residues must be in accordance with all local, state, and federal regulations.

13.2 Packaging

Methods of Disposal: Rinse thoroughly and dispose according to local, state, and federal regulations.

Section 14: Transportation Information

D.O.T Proper Shipping Name: Chemicals not otherwise indexed [NOI], non-hazardous.

Hazard Class: Not applicable.

Section 15: Regulatory Information

OSHA: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA: All intentional ingredients are listed on the TSCA inventory.

SARA: Compound	CAS No.	311	312	313
Urea	57-13-6	YES	YES	NO
Sodium sesquicarbonate	533-96-0-2	YES	YES	NO
Manganese	7439-96-5	NO	NO	YES
Copper	7440-50-8	NO	NO	YES
Zinc	7440-66-6	NO	NO	YES

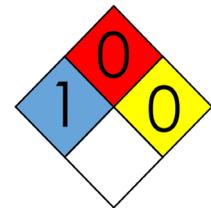
CERCLA Reportable Quantity: Not applicable.

State of California, Proposition 65: No components of these products are listed under state of California Proposition 65 to cause cancer and birth defects or other reproductive harm.

Section 16: Other Information

NFPA 704: National Fire Protection Association

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard,
3 = severe hazard, 4 = extreme hazard



This product is a non-pressure, non-hazardous, non-flammable,
non-regulated, safe-handling dry product.

N/A = Not Available/Not Applicable

Issue Date: 6/1/2014

Expiration Date: 6/1/2017

Disclaimer: This SDS was prepared in accordance with ANSI guidelines based on available information. We provide this data sheet as a service to our customers and, in the event of an accident, to regulatory and enforcement agencies. We believe the information to be reliable. EBS provides no express or implied warranties as to the accuracy or use of this information.