

## Safety Data Sheet (SDS)

### 1. Identification of the substance or mixture and of the supplier

- a) GHS Product Identifier
- b) ***Multi-Sile II Inoculant***
- c) Other means of identification  
***Product UPC codes***  
***25,000g – 752830512894***
- c) Recommended use of the chemical and restrictions on use  
***Microbial crop inoculant***
- d) Supplier's details (including name, address, phone number etc.)  
***Total Crops Inc. N7374 County Rd E., River Falls, WI 54022, United States***
- e) Emergency phone number  
***1-920-251-5916***

### 2. Hazard identification

- a) GHS classification of the substance/mixture and any national or regional information  
***CONTAINS NO HAZARDOUS COMPONENTS AS LISTED IN 29 CFR 1900.1000 OR OTHER PERTINENT SECTIONS OF OSHA REGULATIONS. PRODUCT IS NOT INTENDED FOR HUMAN CONSUMPTION.***
- b) GHS label elements, including precautionary statements. (Hazard symbols may be provided as a graphical reproduction of the symbols in the black and white or the name of the symbol e.g. "flame", "skull and crossbones");  
***N/A***
- c) Other hazards which do not result in the classification (e.g. "dust explosion hazard") or are not covered by the GHS.  
***N/A***

### 3. Composition/information on ingredients

#### Substance

- a) Chemical identity;  
***Lactobacillus plantarum, Enterococcus faecium, Pediococcus acidilactici, Bacillus pumilus, Cellulase, Protease, Xylanase, B-glucanase, Organic powder cane juice, Sodium bicarbonate***
- b) Common name, synonyms, etc.  
***Multi-Sile II Inoculant***

- c) CAS number and other unique identifiers

**N/A**

- d) Impurities and stabilizing additives which are themselves classified and which contribute to the classification of a substance.

**Inert Carriers:** *Organic powder cane juice*

## Mixture

The chemical identity and concentration or concentration ranges of all ingredients which are hazardous within the meaning of the GHS and are present above their cut-off levels.

**NOTE:** For information on ingredients, the competent authority rules for CBI take priority over the rules for product identification.

**Active Ingredients:** *Lactobacillus plantarum, Enterococcus faecium, Pediococcus acidilactici, Bacillus pumilus, Cellulase, Protease, Xylanase, B-glucanase, Organic powder cane juice, Sodium bicarbonate*

## 4. First aid measures

- a) Description of necessary measures, subdivided according to the different routes of exposure, i.e. inhalation, skin and eye contact and ingestion;

**Primary Route of Exposure:** *Inhalation – as dust. Skin – no hazard. Ingestion – no hazard.*

- b) Most important symptoms/effects, acute and delayed.

**Effects of Overexposure:** *none*

- c) Indication of immediate medical attention and special treatment needed, if necessary.

**Emergency and First Aid Procedures:** *Rinse mouth, skin flush eyes with water*

## 5. Fire-fighting measures

- a) Suitable (and unsuitable) extinguishing media.

**Extinguishing Media:** *Water, Foam, Carbon Dioxide, Dry Chemical*

- b) Specific hazards arising from the chemical (e.g. nature of any hazardous combustion products).

**Unusual Fire and Explosion Hazard:** *None*

**Flammable limits in air (volume %):** *Upper: NA Lower: NA*

- c) Special protective equipment and precautions for fire-fighters.

**Special Fire Fighting Procedure:** *None*

## 6. Accidental release measures

- a) Personal precautions, protective equipment and emergency procedures.

**Steps to be taken if material is released or spilled:** *Ventilate area to prevent dust, sweep up material and place in closed container*

- b) Environmental precautions.

**NA**

- c) Methods and materials for containment and cleaning up.

**Waste Disposal Method:** *Consult local environmental authorities*

## 7. Handling and storage

- a) Precautions for safe handling.
  - Respiratory Protection:** Protective dust mask to avoid breathing dust
  - Ventilation:** Local Exhaust: As needed for dust control
  - Protective Gloves:** Not Required
  - Protective Equipment:** Not Required
- b) Conditions for safe storage, including any incompatibilities.
  - Store in a cool dry area. Keep container closed when not in use.**

## 8. Exposure controls/personal protection

- a) Control parameters e.g. occupational exposure limit values or biological limit values.
  - Primary Route of Exposure:** Inhalation – as dust. Skin – no hazard. Ingestion – no hazard
- b) Appropriate engineering controls.
  - N/A**
- c) Individual protection measures, such as personal protective equipment.
  - Respiratory Protection:** Protective dust mask to avoid breathing dust
  - Ventilation:** Local Exhaust: As needed for dust control
  - Protective Gloves:** Not Required
  - Protective Equipment:** Not Required

## 9. Physical and chemical properties

- a) Appearance (physical state, color etc.);
  - Light tan powder**
- b) Odor;
  - No discernible odor**
- c) Odor threshold;
  - N/A**
- d) pH;
  - N/A**
- e) Melting point/freezing point;
  - N/A**
- f) Initial boiling point and boiling range;
  - N/A**
- g) Flash point;
  - N/A**
- h) Evaporation rate;
  - N/A**
- i) Flammability (solid, gas);
  - Non-flammable (test method): closed cup**

j) Upper/lower flammability or explosive limits;

**N/A**

k) Vapor pressure;

**N/A**

l) Vapor density;

**N/A**

m) Relative density;

**N/A**

n) Solubility(ies);

**Water soluble**

o) Partition coefficient: n-octanol/water;

**N/A**

p) Auto-ignition temperature;

**N/A**

q) Decomposition temperature;

**N/A**

r) Viscosity.

**N/A**

## 10. Stability and reactivity

a) Reactivity;

**N/A**

b) Chemical stability;

**Stable**

c) Possibility of hazardous reactions;

**N/A**

d) Conditions to avoid (e.g. static discharge, shock or vibration);

**Exposure of product to moisture, use dry.**

e) Incompatible materials;

**Chemical sanitizers**

f) Hazardous decomposition products.

**None**

## 11. Toxicological information

Concise but complete and comprehensible description of the various toxicological (health) effects and the available data used to identify those effects, including:

a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);

**Primary Route of Exposure:** *Inhalation – as dust. Skin – no hazard. Ingestion – no hazard*

b) Symptoms related to the physical, chemical and toxicological characteristics;

**Effects of Overexposure:** none

- c) Delayed and immediate effects and also chronic effects from short and long term exposure;

**None**

- d) Numerical measures of toxicity (such as acute toxicity estimates).

**N/A**

**12. Ecological information**

- a) Ecotoxicity (aquatic and terrestrial, where available);

**N/A**

- b) Persistence and degradability;

**N/A**

- c) Bioaccumulative potential;

**N/A**

- d) Mobility in the soil;

**N/A**

- e) Other adverse effects.

**N/A**

**13. Disposal information**

**Waste Disposal Method:** Consult local environmental authorities

**14. Transport information**

- a) UN number;

**N/A**

- b) UN proper shipping name:

**N/A**

- c) Transport hazard class(es);

***This product does not contain any ingredients listed as an extremely hazardous substance (EHS) for emergency planning under section 301-303 and for Emergency Release Notification under section 304.***

- d) Packing group, if applicable

**N/A**

- e) Environmental hazards (e.g.: Marine pollutant (Yes/No));

**N/A**

- f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code);

**N/A**

- g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with the transport or conveyance within or outside their premises.

**None**

## **15. Regulatory information**

*This product does not contain any ingredients listed as toxic chemical for Annual Release Reporting Requirements under section 313.*

## **16. Other information including information on preparation and revision of the SDS**

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