

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION

- a. **Product Identifier:** Nterra
- b. **Synonyms:** Microbial Agent, for use on seed, in-furrow, or applied onto foliage
- c. **Name of Supplier, Address and Emergency Telephone Number:** See above.
- d. **Product Use:** Supplements natural microflora in plants when diluted with water
- e. **Date of MSDS Preparation:** October 25, 2021

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

- a. **Identity of Ingredients:** Azospirillum Sp.
- b. **ingredients present which are on the OSHA Hazard List:** Not Applicable
- c. **Ingredients with unknown toxicological properties:** None
- d. **Ingredients the supplier believes may be harmful:** None
- e. **Generic chemical identity and Registry Number for trade secret ingredients registered under the Hazardous Materials Information Review Commission:** None

Water, stabilizers, and pure culture of non-pathogenic organisms

## SECTION 3 - HAZARDS IDENTIFICATION

**Potential Health Effects:** None. Not hazardous to plants, animals, or humans.

**Relevant routes of exposure:**

**EYE CONTACT:** May cause irritation by contact

**SKIN CONTACT:** May cause sensitization.

**INHALATION:** May cause irritation

**INGESTION:** May cause irritation.

## SECTION 4 - FIRST AID MEASURES

**IF IN CONTACT:** Describe any symptoms, and follow the advice given.

**EYES:** Flush with clean water. Rinse thoroughly.

**SKIN:** Wash area with soap and water. No further action required.

**INHALATION:** Move the person to fresh air. No further action required

**INGESTION:** Drink clean water. No further action required.

## SECTION 5 - FIRE FIGHTING MEASURES

- 1. Flash point and method:** Not available, not combustible.
- 2. Upper and lower flammable (explosive) limits in air (% by volume):** Not applicable
- 3. Auto ignition temperature:** Not applicable
- 4. Hazardous combustion products:** Not applicable
- 5. Conditions under which flammability could occur:** None
- 6. Extinguishing media:** Not applicable.
- 7. Sensitivity to explosion by mechanical impact:** No
- 8. Sensitivity to explosion by static discharge.** No

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Procedures for dealing with release or spill:** Clean up spills immediately, wearing protective clothing. No special disposal measures.

For small Spills: Isolate area and contain spill. Rinse area with water.

In case of a major spill: Contact local government for advice.

## SECTION 7 - HANDLING AND STORAGE

### **Handling practices:**

Keep out of reach of children, unauthorized persons and animals. Avoid eye contact and prolonged skin contact. Avoid inhalation of mists. Wear protective clothing and after work, remove protective equipment, and wash hands before eating, smoking, drinking, or using the toilet. Clean up spilled material immediately, and clean clothes, equipment, and work area after use.

**Appropriate storage practices/requirements:** Store in original container in a refrigerated 4°C secure area. DO NOT FREEZE

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Applicable control measures, including engineering controls:**

Ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV listed. Develop written safety and inspection procedures. Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

### **Personal protective equipment for each exposure route:**

**Respirator:** Use an approved NIOSH respirator if ventilation is not adequate, particularly in hot non-ventilated spaces.

**Eyes:** Safety glasses recommended.

**Skin:** Avoid contact or wash after use.

### **Work place Exposure Guidelines.**

Follow OSHA 29 CFR 1910.134 requirements whenever workplace conditions warrant use of a respirator.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

- a. **Appearance:** Dark yellow liquid.
- b. **Odor:** Very slight Caramel
- c. **Physical state:** Liquid
- d. **pH:** Approximately 7.
- e. **Vapor pressure and reference temperature:** N/A
- f. **Vapor density:** Air=1
- g. **Boiling point:** >100°C
- h. **Freezing/Melting point:** N/A
- j. **Evaporation Rate:** Equal to water
- k. **Water/oil partition coefficient:** Not available
- l. **Odor threshold:** Not available
- m. **Viscosity:** Not applicable

## SECTION 10 - STABILITY AND REACTIVITY

- a. **Chemical stability:** **Stable** – no toxic fumes
- b. **Conditions to avoid:** Freezing or temperatures over 40°C
- c. **Incompatibility with other materials:** None.
- d. **Hazardous decomposition products:** Biodegradable, naturally occurring-non pathogenic bacteria, non-GMO
- e. **Hazardous polymerization:** Will not occur

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on product:

- a. **Irritation data:** This product may irritate human eyes following contact.
- b. **Sensitization:** This product is not expected to cause sensitization.
- c. **Carcinogenicity:** Not determined
- d. **Reproductive toxicity:** Not determined.
- e. **Teratogenicity:** Not determined.
- f. **Mutagenicity:** Not determined h. **Chronic exposure:** None.
- g. **Other materials that show synergistic toxic effects together with the product:** None known.

## SECTION 12 - ECOLOGICAL INFORMATION

- A. **Ecotoxicity:** Not Available
- B. **Persistence/Degradability:** N/A
- C. **Bioaccumulative potential:** Not expected
- D. **Mobility:** Soluble in Water

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste disposal information:** Do not reuse containers. Rinse thoroughly three times. Dispose empty containers according to local health and environmental regulations. All recovered material must be packaged, labeled, transported, and disposed or reclaimed

in conformance with applicable laws and regulations and in conformance with Good Engineering Practices. Do not use empty containers for storing food or water.

#### **SECTION 14 - TRANSPORT INFORMATION**

**Shipping information:** Ship and store away from food, feed, cosmetics, and medical supplies.

No special precautions necessary.

#### **SECTION 15 - REGULATORY INFORMATION**

**TSCA INVENTORY STATUS:** Not Applicable

**SARA 311/312 HAZARD CATEGORIES:** Not Applicable

**SARA 313 TOXIC CHEMICALS:** Not Applicable

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:** Not Applicable

**CERCLA HAZARDOUS SUBSTANCES:** Not Applicable

#### **SECTION 16 OTHER INFORMATION**

**HMIS RATINGS: HEALTH:** 0

**FLAMMABILITY:** 0

**REACTIVITY** 0.

**NFPA RATINGS: HEALTH:** 0

**FLAMMABILITY:** 0

**REACTIVITY** 0.

The information contained herein is offered only as a guide to the handling of this specific product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. It is the users responsibility to satisfy himself or herself as to the suitability and completeness of such information for his or her own particular use. No warranty of any kind is given or implied.