

SDS Number: EB6500081 Revision Number: 2.0 (10/16/2018) Issue Date: 10/16/2018

SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Seed+™ Dry Product number: 6500081 Grades: Nutrient supplement. Product use: Seed treatment.

Manufacturer name: Cytozyme Laboratories, Inc.

Manufacturer address: 2700 South 600 West, Salt Lake City, Utah 84115, USA

Manufacturer telephone number: (801) 533-9208 Fax number: (801) 537-1312 Emergency telephone number (Utah Poison Control Center 24 hour monitoring): (800) 222-1222

Email: regulatory@cytozyme.com

SECTION 2. HAZARD IDENTIFICATION CLASSIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Eye irritation (Category 2B) H320 Carcinogenicity (Category 1A), H350

Specific target organ toxicity - repeated exposure, inhalation (Category 2) H373

GHS Label elements, including precautionary statements

Pictograms:

Signal word: Danger

Hazard statement(s):

H320 Causes eye irritation. H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statement(s):

P102 Keep out of reach of children.

P201+P202 Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood.

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/face protection. Wear protective gloves.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P308+P313 If exposed or concerned; Get medical advice/attention.



SDS Number: EB6500081 Revision Number: 2.0 (10/16/2018) Issue Date: 10/16/2018

P314 Get medical advice/attention if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulation.

Hazards not otherwise classified (HNOC) or not covered by GHS-

Chronic exposure may cause dry skin or skin irritation.

Prolonged and/or massive exposure to dust containing respirable crystalline silica may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Proprietary multimineral mixture

Hazardous components:

Relevant Ingredients*	CAS#	Concentration % w/w
Talc	14807-96-6	20-30
Crystalline silica	14464-46-1	7-14
Iron compound	NA	1.0 Iron (Fe)
Zinc compound	NA	1.0 Zinc (Zn)

^{*}Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).

See Section 8 for exposure limits.

SECTION 4. FIRST AID MEASURES

Eye contact: Immediately flush with copious amounts of water for 15 minutes. If irritation persists, contact physician. **Skin contact:** Wash thoroughly with soap and water.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If irritation persists, contact physician. **Ingestion:** Give glass of water if the victim is conscious. Never give water to an unconscious person. DO NOT INDUCE VOMITING unless told to do so by the Poison Control Center or physician. If vomiting occurs naturally, rinse mouth and repeat administration of water. Contact physician or Poison Control Center.

SECTION 5. FIRE FIGHTING MEASURES

General hazards: Active ingredient does not burn or support combustion.

Extinguishing Media: Use media appropriate for the surrounding fire (water spray, alcohol-resistant foam, dry chemical or carbon dioxide).

Flammability classification (29 CFR 1910.1200): Active ingredients are non-flammable.

Unusual fire and explosion hazards: Under thermal decomposition product may emit toxic fumes of metal and carbon oxides.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent and full protective gear).



SDS Number: EB6500081 Revision Number: 2.0 (10/16/2018) Issue Date: 10/16/2018

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors or mist. Ensure adequate ventilation.

For personal protection, see Section 8.

Environmental precautions: Prevent leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Land spill: Isolate spill area. When necessary confine spill with dike area. Shovel, vacuum or sweep up the spilled material including absorbent into aplastic container and dispose in accordance with applicable local regulations. Avoid contamination of water bodies (streams, lakes, etc.) and sewers during cleanup and disposal. Use protective clothing and gloves if skin or eye contact is possible. Wear NIOSH approved respirator and eye protection if aerosol is generated. **Spillage into water:** Where possible remove containers with product from the water. Advise local water authorities of spillage

Reference to other sections: For disposal see Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid getting the product on or in you during handling. Wash hands after handling. Do not eat, drink or smoke while handling the product (see Section 8 for details).

Precautions for storing: Keep out of the reach of children. <u>Do not store</u> with food, feed, or other materials for human or animal consumption. <u>Do not store</u> in direct sunlight. Keep container tightly closed. Store in a clean, dry place at temperature between 40°F (5°C) and 110°F (43°C).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Permissible concentrations: Based on the presence of micronutrients.

Ingredient	CAS#	OSHA PEL	ACGIH TLV	UN Class
Talc	14807-96-6	2 mg/m³ (respirable dust)	2 mg/m³ (respirable dust)	Not Listed
Crystalline silica	14464-46-1	0.1 mg/m³ (respirable dust)	0.025 mg/m³ (respirable dust)	
Iron compound	NA	As Fe 1 mg/m ³	As Fe 1 mg/m ³	Not Listed
Zinc compound NA	15 mg/m³ (total dust)	Not available	Not Listed	
	5 mg/m³(respirable fraction)			

Engineering controls: Not required under normal conditions. If eye or skin contact can occur, washing facility for eyes and skin should be available nearby.

Respiratory protection: General ventilation is sufficient for intended use. Use NIOSH/MSHA-approved respirator if dust conditions exist and whenever workplace conditions warrant respirator use.

Hand protection: Not required under normal conditions. Recommended for repeated or prolonged skin contact and for workers with dermatitis.

Eye protection: Not required under normal conditions. Splash guard goggles recommended if dust conditions exist. **Skin and body protection:** Not required under normal conditions. Use protective clothing to prevent repeated or prolonged skin contact.

Personal hygiene: Avoid getting the product on or in you. Wash hands after handling. Do not eat, drink or smoke while handling the product.



SDS Number: EB6500081 Revision Number: 2.0 (10/16/2018) Issue Date: 10/16/2018

SECTION 9. PHYSICAL/CHEMICAL PROPERTIES

Appearance: light beige

Odor: Characteristic odor Not applicable pH: **Melting Point:** No data available **Boiling Point:** No data available Flash Point: No data available Upper/Lower flammability: No data available No data available Vapor pressure: Vapor density: No data available

Solubility(ies): Forms suspension in water

Not applicable

n-octanol/water partition coefficient:
 Auto-ignition temperature:
 Decomposition temperature:
 Odor threshold:
 Evaporation rate:
 Flammability:
 Viscosity:
 No data available
 No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Conditions/Materials to avoid: None known.

Anticipated hazardous decomposition products: No data available. In the event of fire, the product may emit toxic

fumes of metal and carbon oxides.

SECTION 11. TOXICOLOGICALINFORMATION

Ingestion: Not classified.

Density/Relative density:

Skin irritation/corrosion: Not classified.

Eye damage/irritation: Causes eye irritation.

Respiratory sensitization: Not classified.

Skin sensitization: Not classified. **Carcinogenicity:** May cause cancer.

Crystalline silica (silicon dioxide) is classified as group 1 (carcinogenic to humans) but in a calcinated diatomaceous earth is classified as group 3 (not classifiable as to its carcinogenicity to humans) by IARC, silicon dioxide is classified as known carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated

exposure if inhaled.

Aspiration hazard: Not classified.



SDS Number: EB6500081 Revision Number: 2.0 (10/16/2018) Issue Date: 10/16/2018

SECTION 12. ENVIRONMENTALINFORMATION

Ecotoxicity: At recommended rates Seed+[™] Dry is not phytotoxic or harmful to the environment. Elements present in the product are essential for healthy growth of plants and are commonly applied to agricultural and horticultural crops.

Environmental hazard: May be harmful to aquatic life in high concentrations due to presence of micronutrients.

Persistence and degradability: No data available. Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Toxicity to Aquatic Organisms: No data available.

Ecotoxicity to Terrestrial Organisms

Plant toxicity: At recommended rates the product is not phytotoxic.

SECTION 13. DISPOSAL CONSIDERATIONS (BASED ON ACTIVEINGREDIENT)

Disposal Method: Consult local and federal guidelines for disposal regulations.

Empty Container: Completely empty the container into the application equipment. Dispose of the container in a

sanitary landfill or by incineration if allowed by local authorities.

SECTION 14. TRANSPORT INFORMATION

UN number: Not applicable.

UN proper shipping name: Not applicable.

UN classification: Not applicable. **Packing group:** Not applicable. **Marine pollutant:** Not applicable.

DOT (US): Not regulated.

ICAO/IATA (Ground and Air Packages): Not regulated.

International transportation: Not regulated. **TDG Canadian transportation:** Not regulated.

NOTE: The shipping classification information in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under 49 CFR, IATA and IMDG to assure regulatory compliance.

SECTION 15. REGULATORY INFORMATION

SARA 302 Components: No chemicals in the product are subject to the reporting requirements of SARA Title III, Section 302.

Section 313 EPA Supplier Notification Requirement: This product contains the following EPCRA Section chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): Zinccompounds.



SDS Number: EB6500081 Revision Number: 2.0 (10/16/2018) Issue Date: 10/16/2018

SARA 311/312 Hazards: None

CERCLA: Zinc compounds are listed.

NFPA Hazard Rating (scale: 0-minimal, 1-slight, 2-moderate, 3-serious, 4-severe):

Health – 1; Fire – 0; Reactivity – 0; Special -none

HMIS Codes (scale: 0-minimal, 1-slight, 2-moderate, 3-serious,4-severe): Flammability (red) – 0; Reactivity (yellow) – 0; Health (blue) –1

SECTION 16. OTHER INFORMATION

EMPLOYER RESPONSIBILITIES:

Employers must ensure that the SDSs are readily accessible to employees for all hazardous chemicals in their workplace.

This may be done in many ways. For example, employers may keep the SDSs in a binder or on computers as long as the employees have immediate access to the information without leaving their work area when needed and a back-up is available for rapid access to the SDS in the case of a power outage or other emergency. Furthermore, employers may want to designate a person(s) responsible for obtaining and maintaining the SDSs. If the employer does not have an SDS, the employer or designated person(s) should contact the manufacturer to obtain one.

REFERENCES:

Occupational Safety and Health Administration (OSHA), 29 CFR 1910.1200(g) and Appendix D.

http://www.osha.gov/dsg/hazcom/index.html

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), fourth revised edition, United Nations, 2011. http://www.unece.org/trans/danger/publi/ghs/ghs_rev04/04files_e.html
European Community (EC) Directive 1999/45/EC. http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:31999L0045

DISCLAIMER: The information and recommendations in this Safety Data Sheet are, to the best of our knowledge, accurate as of the date of issue. However, Cytozyme Laboratories, Inc. ("Cytozyme") makes no warranties, expressed or implied, as to the accuracy or adequacy of the information contained herein or the results to be obtained from the use thereof. WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED. This information is offered solely for the user's consideration, investigation and verification. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. Since the use and conditions of use of this information and the material described herein are not within the control of Cytozyme, Cytozyme disclaims all liability for injury to the user or third persons. Nothing herein shall be deemed to establish a legally valid contractual relationship. The material described herein is sold only pursuant to Cytozyme's Terms and Conditions of Sale. Users of this product must comply with all applicable international, federal, state or local laws and regulations.