



Alive Seed

Safety Data Sheet

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Product identifier

Alive Seed (biological seed treatment / seed dressing)

SECTION 1: Identification

1.1. Product identifier

Alive Seed

1.2. Recommended use

Applied to seeds used in commercial agriculture for supplying beneficial bacteria to germinating seeds. Improves germination rate, seedling growth, and overall crop yield.

1.3. Supplier's details

MANUFACTURER:	TLC Products
ADDRESS:	26100 First Street, Westlake, OH 44145, USA
Telephone:	1-216-472-3030

1.4. Emergency telephone number

1-216-472-3030

SECTION 2: Hazard identification

2.1. Hazard classification

Skin and eye irritant

2.2. Label elements

Signal word

Caution

Symbols

Exclamation mark

Pictograms



Hazard Statements

May cause skin or eye irritation with prolonged contact. Wash skin with soap and water, or rinse eyes with water for 5 minutes if contacted.

Precautionary Statements: NA

Prevention:

Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
In case of inadequate ventilation wear respiratory protection.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified

Not applicable - NA

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Bacteria, complex with amylase and protease, compliant with Canadian DSL	68920-42-3	75 %
Proprietary, non-toxic carrier		<15 %
Proprietary and non-toxic binding agent		<10 %

SECTION 4: First aid measures

4.1. Description of first aid measures

Note: This product is classified as a non-hazardous substance, no special first aid measures are anticipated.

Inhalation:

Supply fresh air, consult doctor in case of complaints. Otherwise, no need for first aid is anticipated.

Skin Contact:

Generally, the product does not irritate the skin. However, upon contact, immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

In case of fire: Use extinguishing measures that are appropriate to local circumstances and the environment. CO₂, extinguishing powder, or water spray.

5.2. Special hazards arising from the substance or mixture

Not applicable - NA

5.3. Hazardous Decomposition or By-Products

No known hazardous decomposition or By-Products

5.4. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Eye goggles, chemical resistant clothing, rubber gloves are recommended when applying product.

6.2. Environmental precautions

Product may be disposed into any drain or sink, or disposed of as yard waste. The beneficial bacteria included in FarmPond Treatment Part B (EcoSock) are completely natural and ubiquitous in nature, and are not an environmental risk.

6.3. Methods and material for containment and cleaning up

Vacuum or sweep up, avoiding generation of mist. Place in suitable container for trash pickup. Powder may be flushed down toilet or disposed down a drain. If there is a concern about bacterial contact, use chlorine product to kill bacteria.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Minimize exposure in accordance with good hygiene practice.

7.2. Conditions for safe storage including any incompatibilities

Store at room temperature. Keep container closed. Store away from areas where product may come into contact with food or pharmaceuticals.

SECTION 8: Exposure controls/personal protection

Control parameters

None – NA

Occupational exposure limits

Contains no components with occupational exposure limits

Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact. Vented goggles are recommended.

Skin/hand protection

Wash hands with soap and water after contact.

Respiratory protection

Standard dust mask is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Powder
Odor, Color, Grade:	White to amber colored powder with no odor.
Odor threshold	<i>No Data Available</i>
pH	<i>Not Applicable</i>
Melting point	<i>Not determined</i>
Boiling Point	Not applicable, not determined
Flash Point	None
Evaporation rate	Not applicable
Flammability (solid, gas)	Airborne concentrations of dust greater than 20-grams/cubic meter combined
with sources of ignition. 450-460 C Minimum ignition temperature (dust cloud)	
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Density	Not determined
Specific Gravity	1.10 [<i>Ref Std: WATER=1</i>]
Viscosity	Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

NA. This product is not known to be reactive with any substance.

10.2. Chemical stability

Stable.

TLC Products Alive Seed

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

Strong acids or bases may inactivate the beneficial bacterial culture and impair the products effectiveness.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

The information below is accurate to the best understanding of TLC Products.

Information on Toxicological effects

Signs and Symptoms of Exposure

This material may produce the following health effects with prolonged exposure, while no health effects are expected for short term exposure as might occur with accidental mishandling of the product, followed by the recommended washing or rinsing within 1 hour of contact:

Inhalation:

Not Applicable, NA.

Skin Contact:

No adverse effects are expected, however, skin irritation may occur with prolonged contact. Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

Eye Irritation may occur if contacted with eyes. Rinse with copious amounts of water. Signs/symptoms may include redness, eye irritation or itching.

Ingestion:

Mild Gastrointestinal Irritation may occur if swallowed: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Reproductive Toxicity

No known significant effects or critical hazards.

Additional Information

Not applicable, NA

SECTION 12: Ecological information

Toxicity

No known significant effects or critical hazards. Minimal impact under normal conditions of use and storage. The bacterial cultures are naturally occurring soil type organisms. There is no expected toxicity.

Persistence

No known significant effects or critical hazards. As the bacteria in this product are naturally occurring soil bacteria and ubiquitous in nature, the no negative changes or persistence will result.

Bio-accumulative potential

No known significant effects or critical hazards. Not likely.

Mobility in Soil

Disperses in water.

Other Adverse Effects

No known significant effects or critical hazards. None.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Unless prohibited, unused product may be disposed of down toilet or drain. Always follow local/regional/national/international regulations.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

There is no special transportation requirement.

UN Number

NA

Class

NA

Packing Group

NA

Proper Shipping Name

NA

15.1. US Federal Regulations

There are no safety, health, or environmental regulations or legislation specific for the substance or mixture.

SECTION 16: Other information

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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