

Holganix LLC – Material Safety Data Sheet

Holganix 10-0-0

April 1, 2021

In emergency call 866.563.2784 (9:00 am to 5:00 pm EST/EDT) or 610.283.6913 (after hours).

Product Name – Holganix® 10-0-0

SECTION 1: IDENTIFICATION

Holganix LLC

Product Name: Holganix 10-0-0

3033 Market Street

Common Name: 10-0-0

Aston, PA 19014 - 3436

Product Type: granular fertilizer with nitrogen derived from urea

866.6563.2784

www.holganix.com

SECTION 2: HAZARD(S) IDENTIFICATION

Skin – may cause redness and irritation.

Eyes – may cause redness and irritation.

Inhalation – prolonged inhalation of dust may cause lead to respiratory irritation.

Ingestion – low toxicity, may cause digestive tract irritation, with accompanying nausea, vomiting and/or diarrhea.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients: Percent (%)

46-0-0 urea fertilizer.....21.75

Holganix Blend 66L.....12.48

Biodac®(1).....65.77

Soil Amending Ingredients: Percent (%)

Sucrose.....0.155

Fructose.....0.089

Glucose.....0.067

Lactose.....0.004

Maltose.....0.004

Brewers Yeast.....0.006

Amino Acid.....0.003

Humic Acid.....0.002

Kelp.....0.001

Yucca Extract.....0.001

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Section 3: Composition / Information on Ingredients (continued).

| <u>Microorganism Species</u> | <u>Prop/gm</u> |
|------------------------------------|----------------|
| <i>Glomus aggregatum</i> | 0.0007 |
| <i>G. etunicatum</i> | 0.0007 |
| <i>G. intraradices</i> | 0.0007 |
| <i>G. mosseae</i> | 0.0007 |
| <i>G. brasilianum</i> | 0.0007 |
| <i>G. clarum</i> | 0.0007 |
| <i>G. deserticola</i> | 0.0007 |
| <i>G. momosporum</i> | 0.0007 |
| <i>G. margarita</i> | 0.0007 |
| <i>Pisolithus tinctorius</i> | 54.0000 |
| <i>Scleroderma cepa</i> | 31.0000 |
| <i>S. citrinum</i> | 31.0000 |
| <i>Suillus granulatus</i> | 16.0000 |
| <i>Su. Punctipes</i> | 16.0000 |
| <i>Rhizopogon amylopogon</i> | 12.0000 |
| <i>R. luteolus</i> | 12.0000 |
| <i>R. fulvigleba</i> | 11.0000 |
| <i>R. villosullus</i> | 11.0000 |
| <i>Laccaria bicolor</i> | 5.0000 |
| <i>L. laccata</i> | 5.0000 |

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush with running water for at least 15 minutes, keeping eyelids open. Seek medical attention if symptoms develop or irritation persists.

Skin Contact: Wash exposed skin with soap and water. Rinse thoroughly. Seek medical attention if symptoms develop or irritation persists.

If Inhaled: Relocate to fresh air. If nasal cavity is irritated, flush with water. Seek medical attention if symptoms develop.

If Ingested: Drink 8 to 16 fluid ounces of water. Do not induce vomiting. If ingested in large amounts, call Poison Control Center (1.800.222.1222). If vomiting occurs, lower the head to keep vomit from being swallowed.

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SECTION 5: FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flash Point (°/Test Method): | None – p-m closed cup. |
| Flammable Limits (LFL & UFL): | Non-flammable. |
| Extinguishing Media: | Non-flammable. Use medium appropriate for surrounding fire. |
| Hazardous Combustion Products: | Not applicable. |
| Special Fire Fighting Procedures: | Non-flammable. Exposed to elevated temperatures this product may decompose producing solid cyanuric acid and release toxic gases (ammonia, carbon dioxide and oxides of nitrogen). |

SECTION 6: ACCIDENTAL RELEASE MEASURES

Carefully sweep up spilled product and place in a clean, dry container. Close and seal the container. Avoid breathing dust. If possible, use the collected material from the spill according to label directions. Otherwise, dispose of the collected material in an approved chemical waste facility. In the event of a large spill, take measures to avoid exposure to waterways as materials will promote algae growth and may degrade water quality. Notify downstream water users and authorities of spills reaching a waterway.

SECTION 7: HANDLING AND STORAGE

Store the product in closed, sealed containers in a cool, dry place. Avoid breathing dust. Avoid direct or prolonged contact with skin or eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke in product storage areas. Store and use the product out of the reach of children and animals. Read the label before use and follow use instructions. Do not reuse product containers. Open dumping of product and/or product containers is prohibited.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection: If granules may come in contact with eyes (e.g. when handling opened bags or filling spreaders), wear protective eyewear.

Skin Protection: Before using product, cover open sores or wounds. Wear rubber gloves and long-sleeved shirt when opening bags and filling spreaders.

Respiratory protection: None required.

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Section 8: Exposure Control / Personal Protection (continued).

Ventilation requirements: Use NIOSH approved respirators when working in poorly ventilated environments.

Additional Protective Measures: None required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Granules **Color:** Gray **Odor:** Sweet odor of molasses and yeast

pH: Neutral **Solubility:** Partially soluble in water. Biodac granules are not soluble.

Specific Gravity: 0.8 to 1.2 **Bulk Density:** 50 to 78 lbs/cu ft

Vapor Pressure: not available

SECTION 10: STABILITY AND REACTIVITY

This product is stable. Store in a cool dry location. Avoid contact with oxidizers and moisture. In the presence of moisture, may be corrosive to steel. Slightly corrosive to aluminum, zinc or copper. Non-corrosive to ceramic, glass or 304 and 316 stainless steel.

SECTION 11: TOXICOLOGICAL INFORMATION

There are no chronic toxicological effects on humans. (Urea is used as a nutritional supplement for cattle.) Acute effects may include eye, skin and nasal tissue inflammation.

SECTION 12: ECOLOGICAL INFORMATION

Urea is a soil nutrient. Urea may stimulate plant life in ponds, lakes, streams, rivers and bays. Contact with waterways should be avoided as excessive plant life in water ways can deplete water oxygen and kill fish. Biodac and Holganix Blend 66L are readily biodegradable and/or add to the number of microorganisms in the soil. All microorganisms in the product are naturally occurring in the soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate waterways while cleaning equipment and disposing of wash water. Do not reuse product containers. Comply with local, state and federal regulations when disposing of product and/or containers.

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SECTION 14: TRANSPORT INFORMATION

Transportation of this product is not regulated.

SECTION 15: REGULATORY INFORMATION

CAS #: 57-13-6. CERCA/SUPERFUND 40 CR 117.302: This product contains no Reportable Quantity (RQ) Substances. This product is not considered to be a priority pollutant as regulated under the Clean Water Act. **TSCA (Toxic Substance Control Act):** This product and all its components are listed on the TSCA Inventory. **CALIFORNIA PROPOSITION 65:** This product is not known to cause cancer and is not listed. This product has been classified in accordance with the hazard criteria of the **Controlled Products Regulations** and is not subject to control under the **Hazcom Standard**.

SECTION 16: OTHER INFORMATION

The information in this MSDS is based upon available information and/or data. No warranty is expressed or implied with respect to the accuracy of this data, information or the results to be obtained from the use. Users should satisfy themselves that they have all current data relevant to their particular use.

Holganix LLC assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage, to vendees, users or third parties, caused by the material; and Holganix LLC responsibility is limited to replacement of, or repayment of, the purchase price for the material(s) with respect to which damages are claimed. All vendees or users assume all risk associated with the use of the material(s).

- (1) Biodac is a registered trademark of Kadant GranTek Inc.
607 Liberty Street, Green Bay, WI 920.435.5200