

Holganix LLC – Hazard Communication Safety Data Sheet

HGX Pro 2-4-3

October 5, 2023

Emergency Telephone Contacts:

Holganix LLC (9:00 am to 5:00 pm EST/EDT) – 866.563.2784

National Response Center – 800.424.8802

Poison Control Center – 800.222.1222

Section 1: Identification

Product Name: HGX Pro 2-4-3

Common Name: 2-4-3 fertilizer/soil amendment.

Product Type: A granular fertilizer blended with Holganix Bio 800⁺ Agriculture.

Holganix LLC

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Section 2: Hazard(s) Identification

- **Physical Hazard(s):** Product is granular, but may cause dust, an explosion hazard.
- **Health Hazard(s):** Not Classified.
- **OSHA Defined Hazards:** Not Classified.
- **Product Label Warnings:**
 - **Hazard Symbol:** Not required.
 - **Signal Word:** Not required.
 - **Hazard Statement:** Not required.
 - **Precautionary Statements:** No precautionary statements are required.
- **Eye Exposure:** Immediately rinse with water.
- **Skin Exposure:** Rinse with water, then wash with soap and water.
 - **Avoid Exposure:** Wear goggles with side shields, where rubber or neoprene gloves and wear clothing to prevent repeated or prolonged skin exposure.
- **Hazard(s) Not Otherwise Classified (HNOC):** None known.

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Section 3: Composition/Information on Ingredients

HGX Pro 2-4-3 is a fertilizer blended with Holganix Bio 800+ Agriculture, a soil amendment. The finished product contains fungi and soil amendments.

The fertilizer analysis is:

HGX Pro 2-4-3 Granular Fertilizer - Guaranteed Analysis

Net Contents	Percent (%)
Total Nitrogen (N)	2.0
Ammoniacal Nitrogen.....	0.1
Water Insoluble Nitrogen (WIN)*.....	1.9
Available Phosphate (P₂O₅)	4.0
Soluble Potash (K₂O)	3.0
Calcium (Ca)	4.0

Derived from: Poultry Litter.

Also Contains Non-Plant Food Ingredients

<u>Soil Amending Ingredients:</u>	<u>Percent (%)</u>
Molasses.....	1.50
High Fructose Corn Syrup.....	0.40
Brewer's Yeast.....	0.38
Yucca Extract.....	0.01
Total Other Ingredients	97.71

<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

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Section 4: First-Aid Measures

- **Eye Contact:** Immediately flush with water for a period of 15 minutes. If eye irritation develops and persists, get medical attention.
- **Skin Contact:** First rinse the exposed area then wash thoroughly with soap and water. Seek medical attention if symptoms develop or irritation persists. Launder contaminated clothing before wearing again.
- **If Inhaled:** Relocate to fresh air. If nasal cavity is irritated, flush with water. Seek medical attention if irritation occurs and persists.
- **If Ingested:** Rinse mouth with water and drink 8 to 16 fluid ounces of water. Do not induce vomiting. Get medical attention if irritation occurs and persists. Call the Poison Control Center (1.800.222.1222) if ingested in large amounts. If vomiting occurs, lower the head to keep vomit from being swallowed.

Section 5: Fire-Fighting Measures

- **Fire and Explosion Hazards:** non-combustible, not explosive in the package. Only explosive if many containers are opened and significant build-up of dust results.
- **Hazardous Combustion Products:** none.
- **Special Firefighting Procedures:** Self-contained breathing apparatus and full protective clothing should be worn when combating chemical and/or biological fires.
- **Protective Equipment and Firefighting Procedures:** Self-contained breathing apparatus and full protective clothing should be worn when combating chemical and/or biological fires. Use personal protective equipment and follow firefighting procedures appropriate to workplace conditions (if product is enveloped in a greater fire).
- **Firefighting Equipment and Instructions:** Use standard firefighting equipment. Consider hazards from other fire involved materials. If possible, move nearby containers to a safe location.

Section 6: Accidental Release Measures

- **Personal Precautions:** Wear protective clothing as directed in Section 8 of this SDS.
- **Environmental Precautions:** Prevent further spillage if safe to do so. Do not contaminate water.
- **Method of Containment:** Stop the flow of material if this is possible without risk. Dike the spilled material where possible. Prevent further spillage if safe to do so. Do not allow spillage to reach drains, sewers or waterways. If you cannot contain the spill and the content of the spill has reached or is about to reach drains, sewers or waterways, contact local authorities immediately.

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Section 6: Accidental Release Measures (continued).

- **Method of Cleaning Up:**
 - **Small Spill:** Wear rubber gloves. Sweep material into piles and shove into an appropriate disposal container. Thoroughly clean the surface to assure that all remaining contaminant is removed.
 - **Large Spill:** Contain the spill then place in a suitable container. Do not flush to sewer or allow the spill to enter waterways. Following product recovery, flush the area with water. Retain all contaminated water for removal and treatment. For waste disposal, see Section 13 of this SDS. Uncontaminated spilled material may be reused.

Section 7: Handling and Storage

- **Storage:**
 - Store product in a dry warehouse.
- **Handling:**
 - Avoid product dust in contact with eyes and/or skin.
 - Eye wash facilities and emergency shower must be available when handling this product.
 - Avoid breathing dust.
 - Handle only in well ventilated areas.
 - Do not use in areas without adequate ventilation.
 - Wash thoroughly after handling.

Section 8: Exposure Controls/Personal Protection

- No special precautions are required while handling or applying HGX Pro 2-4-3.
- **Occupational Exposure Limits:** No exposure limits are noted.
- **Biological Limit Values:** No biological limit values are noted.
- **Appropriate Engineering Controls:** Adequate ventilation should be provided to avoid inhalation of dust. Eyewash stations should be installed in the workplace.
- **Personal Protective Equipment:**
 - **Eye and Face Protection:** none required.
 - **Skin Protection:** While working with open containers, wear rubber or neoprene gloves. Wear clothing that will provide protection from repeated or prolonged contact with chemical dust.

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

- **Respiratory Protection:** While filling application equipment, wear a mask to avoid inhalation of dust.
- **General Hygiene Considerations:** Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and Chemical Properties

- **Appearance:**
 - **Physical State:** Granule.
 - **Form:** Granule, uniform size.
 - **Color:** Brown.
- **Odor:** Slight, pungent.
- **Odor/Threshold:** Not available.
- **pH:** Not applicable.
- **Melting Point/Freezing Point:** Not applicable.
- **Boiling Point:** Not applicable.
- **Boiling Range:** Not applicable.
- **Flash Point:** Non-combustible.
- **Evaporation Point:** Not applicable.
- **Evaporation Rate:** Not applicable.
- **Flammability (solid, gas):** Non-flammable.
- **Upper/Lower Flammability or Explosive Limits:**
 - **Flammability Limit – Lower:** Non-flammable.
 - **Flammability Limit – Upper:** Non-flammable.
 - **Explosive Limit – Lower:** Not explosive.
 - **Explosive Limit – Upper:** Not explosive.
- **Vapor Pressure:** Not applicable.
- **Vapor Density:** Not applicable.
- **Relative Density:** Not available.
- **Solubility(s):**
 - **Solubility, Water:** Not Soluble.
- **Partition Coefficient (n-octanol/H₂O):** Not available.
- **Auto-Ignition Temperature:** Non-flammable.
- **Decomposition Temperature:** Not available.
- **Viscosity:** Not applicable.
- **Other Information:**

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Section 9: Physical and Chemical Properties (continued).

- **Bulk Density:** Not available.
 - **VOC:** Not available.
 - **Specific Gravity:** Not available.

Section 10: Stability and Reactivity

- **Reactivity:** This product is stable and non-reactive under normal use, storage and transport conditions.
- **Chemical Stability:** Not applicable.
- **Possibility of Hazardous Reactions:** There are no dangerous reactions known under normal conditions of use.
- **Conditions to Avoid:** Do not allow dust to build up in closed in and unventilated area. Dust can be an explosive hazard.
- **Incompatible Materials:** None known.
- **Hazardous Decomposition Products:** None known.

Section 11: Toxicological Information

- **Information on Likely Routes of Exposure:**
 - **Inhalation:** Airborne particles and/or mist may be irritating to the respiratory system.
 - **Skin Contact:** Skin contact is known to cause mild, transient skin irritation.
 - **Eye Contact:** No known eye effects.
 - **Ingestion:** No known effects of ingestion.
- **Symptoms Related to the Physical, Chemical and Toxicological Characteristics:** Mild, transient skin irritation may result from skin contact.
- **Acute Toxicity:**
 - **Dermal LD50:** Not classified.
 - **Oral LD50:** Not classified.
- **Skin Corrosion/Irritation:** May cause skin irritation.
- **Serious Eye Damage/Eye Irritation:** No known eye damage or irritation.
- **Respiratory or Skin Sensitization:**
 - **Respiratory Sensitization:** Not classified.
 - **Skin Sensitization:** Not classified.
- **Germ Cell Mutagenicity:** Not classified.
- **Carcinogenicity:** Not classified as a carcinogen by IARC, ACGIH, or OSHA.
 - **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

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Section 11: Toxicological Information (continued).

- **Reproductive Toxicity:** Not classified.
- **Specific Target Organ Toxicity, Single Exposure:** Not classified.
- **Specific Target Organ Toxicity, Repeated Exposure:** Not classified.
- **Aspiration Hazard:** Based on available data, the classification criteria are not met.
- **Chronic Effects:** Prolonged inhalation may be harmful. No evidence of potential chronic effects.
- **Further Information:** No other specific acute or chronic health impacts were noted.

Section 12: Ecological Information

- **Eco-toxicity:** Not applicable, HGX Pro 2-4-3 is not classified as environmentally hazardous.
- **Persistence and Degradability:** Microorganisms and chemistry components of Holganix Granular Fertilizer 2-4-3 are known to be present in soils.
 - **Microorganisms:** The microorganisms in the product will not degrade. They will increase or decrease in the soil microbiome according to environmental conditions and competition from native microorganisms.
 - **Organic chemicals:** The organic chemicals in the product will degrade and/or be consumed by soil microorganisms.
- **Bio-accumulative Potential:** No data is available.
- **Partition Coefficient – n-octanol/water (logKow):** No data is available.
- **Mobility in Soil:**
 - Chemical components of this product are water soluble and will disperse in soil water.
 - Some microorganisms in this product are mobile and will move in soil through soil water.

Section 13: Disposal Considerations

- **Disposal Instructions:** Dispose in accordance with local, state and federal laws and regulations at the time of disposal. Do not allow contents of the package to drain into sewers or water sheds.
- **Hazardous Waste Code:** Assignment of a waste code should be discussed amongst the producer, user and the waste disposal company(s).
- **Waste from Residues/Unused Products:** Empty containers may still contain product or residue. See (Disposal Instructions) in this Section 13 of the SDS).

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Section 14: Transport Information

Transportation of this product is not regulated.

Section 15: Regulatory Information

- **US Federal Regulations:**
 - **CAC (Clean Air Act) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.
 - **CAC Section 112(r) Accidental Release Prevention (40 CFR 68.130):** Not regulated.
 - **CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed
 - **OSHA Hazard Communication Standard (29 CFR 1910.1200):** Hazardous chemical.
 - **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed
 - **Super Fund Amendments and Reauthorization Act (SARA) of 1986:**
 - **Hazard Categories:**
 - **Immediate Hazard:** Yes.
 - **Delayed Hazard:** No.
 - **Fire Hazard:** No.
 - **SARA 302 Extremely Hazardous Substance:** Not listed.
 - **SARA 304 Emergency Release Notification:** Not regulated.
 - **SARA 311/312 Hazardous Chemical:** Yes.
 - **SARA 313 TRI Reporting:** Not listed.
 - **Pressure Hazard:** No.
 - **Reactivity Hazard:** No.
 - **Safe Drinking Water Act (SDWA):** Not regulated.
 - **TSCA Section 12(b), Export Notification, (40 CFR 707, Subpt. D):** Not regulated.

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Section 16: Other Information

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List of Abbreviations:

ACGIH:	American Conference of Government Industrial Hygienists.
C:	Celsius.
CAC:	Clean Air Act.
CAS:	Chemical Abstracts Service.
CERCLA:	Comprehensive Environmental Response Compensation and Liability Act.
CFR:	Code of Federal Regulations.
DOT:	Department of Transportation.
GRAS:	Generally Recognized As Safe.
HNOC:	Hazard Not Otherwise Classified.
F:	Fahrenheit
FDA:	Food and Drug Administration.
IARC:	International Agency for Research on Cancer.
LD50:	Lethal Dose 50%.
OSHA:	Occupational Safety and Health Administration.
SARA:	Super Fund Amendments and Reauthorization Act.
SDWA:	Safe Drinking Water Act.
SDS:	Safety Data Sheet.
TSCA:	Toxic Substances Control Act.
VOC:	Volatile Organic Compound.

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