

Holganix LLC – Hazard Communication Safety Data Sheet

Plant Start 2-4-3 (starter plant food and root builder)

September 11, 2019

SECTION 1: IDENTIFICATION

1.1. Product Name: Holganix Plant Start 2-4-3 (starter plant food and root builder).

1.2. Common Name: Plant Start 2-4-3 (derived from composted chicken manure, contains mycorrhizal fungi).

1.3. Product Type: a fertilizer and soil amendment.

1.4. Company Name:

Holganix LLC
3033 Market Street
Aston, PA 19014-3436
866.563.2784
www.holganix.com

1.5. In an emergency contact:

Poison Emergency: American Association of Poison Control Centers at 800.222.2222.

Environmental Spill: National Response Center at 800.424.8802.

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Signal Word (GHS-US): Warning

2.2. Hazard Statements (GHS-US): H320 – Causes eye irritation.
H332 – May be harmful if inhaled.

2.3. Precautionary Statements (GHS-US): P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 – Wash hands thoroughly after handling with plenty of soap and water.
P271 – Use only outdoors or in a well ventilated area.
P308-1 – Exposed or concerned, seek medical advice or attention.
P312 – Call a poison center or doctor/physician if you feel unwell.
P337 – If eye irritation persists, seek medical advice or attention.
P351 – If skin irritation occurs, rinse cautiously with water for several minutes.
P501 – Dispose of container in accordance with federal, state and local regulations.

2.4. Physical Hazard(s) Not classified.

2.5. Health Hazard(s) Not classified.

2.6. OSHA Defined Hazards Not classified.

2.7. Product Label Warnings: Hazard Symbol - None required.

2.8. Hazard(s) Not Otherwise Classified (HNOC): None known.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance – fertilizer (2-4-3 derived from chicken manure compost) (no CAS #) and soil amendment (mycorrhizal fungi) (no CAS #). The guaranteed analysis is total nitrogen (N)...2.0% (ammoniacal nitrogen...0.1% and water insoluble nitrogen...1.9%), available phosphate (P₂O₅)...4.0%, soluble potash (K₂O...3% and Calcium (Ca)...8.0%). Soil amending ingredients include: molasses...1.5%, high fructose corn syrup...0.4%, brewer's yeast...0.38% and yucca extract...0.01%. Inert ingredients...97.71%

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures:

First Aid Measures After Skin Contact: Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

First Aid Measures After Eye Contact: Immediately flush with water for a period of 15 minutes while holding eyelids open. Obtain medical attention if irritation develops or persists.

First Aid Measures After Ingestion: If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or a copy of the label to the attending medical professional.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed:

Symptoms/Injuries After Inhalation: Overexposure may be irritating to the respiratory system.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: If a large quantity has been ingested, a person may experience abdominal pain, diarrhea, nausea and/or vomiting.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed:

If medical advice or care is needed, have a product container or copy of label at hand. Call the Poison Control Center (800.222.1222) if ingested in large amounts. If vomiting occurs, lower the head to keep vomit from being swallowed.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media:

Suitable Extinguishing Media: Product is not considered flammable but will burn at high temperatures. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: None known.

5.2. Special Hazards Arising From the Substance or Mixture:

Fire Hazard: Thermal decomposition can lead to a release of irritating and toxic gases and vapors. In event of a fire, do not breathe fumes.

Explosive Hazard: Product itself is not explosive, but if dust is generated, dust clouds suspended in air can be explosive.

Reactivity: This product as shipped in the form of coarse granules in bags should not contain sufficient dust to present an explosion hazard. Prevent dust from accumulating to minimize the risk of explosive hazard.

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SECTION 6: ADDITIONAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures and General Measures:

Handle in accordance with good industrial hygiene and safety practices. This product may become slippery when wet.

For Non-emergency Personnel:

Protective Equipment: Wear suitable protective clothing, gloves, and eye/face protection as directed in Section 8 of this Safety Data Sheet (SDS).

Emergency Procedures: Collect loose material as with any solid. Ventilate the area. Evacuate unnecessary personnel from the building .

For Emergency Responders:

Protective Equipment: Wear suitable protective clothing, gloves, and eye/face protection as directed in Section 8 of this SDS.

Emergency Procedures: If possible, stop the flow of product. Contain and collect as with any solid. Ventilate the area. Evacuate unnecessary personnel.

6.2. Environmental Precautions: Prevent further release of material if safe to do so. Prevent spillage into waterways.

6.3. Method of Containment: Stop the flow of material if this is possible without risk. Dike the spilled material where it is. Prevent further leakage or spillage if safe to do so. Do not allow spillage to reach drains, sewers or waterways. If this is not possible, contact local authorities.

6.4. Method of Cleaning Up:

For Containment: Contain and collect as with any solid. Do not allow product to spill over into drains or water ways or dispose of product where ground or surface waters may be affected.

Methods for Cleaning Up: Recover the product by vacuuming, shoveling and/or sweeping. Avoid generation of dust during clean-up of spills. If spilled directly onto the ground, remove sufficient soil to ensure that product is fully recovered. Dry product that is recovered may be used according to label directions provided that the recovered product is uncontaminated.

6.5. Disposal of Contaminated Product: Contaminated material should be disposed of as recommended in Section 13 of this SDS.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling:

Additional Hazards When Processed: This product becomes slippery when wet.

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment as described in Section 8 of this SDS. Avoid creating and/or spreading product dust.

7.2. Conditions for Safe Storage, Including Any Incompatibilities:

Storage Conditions: Store in tightly closed bags in a cool, dry and well-ventilated area. Protect from moisture (ceiling leaks and wall and floor seepage).

Prohibitions on Mixed Storage: Avoid storage of the product near acid, alkaline or other reactive substances . See Section 10 of this SDS.

Special Rules on Packaging: None specified.

7.3. Specific End Use: This product is intended for use as a fertilizer and soil amendment.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Nuisance Dusts

USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA IDLH	US IDLH (mg/m ³)	none
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³

8.2 Exposure Controls:

Appropriate Engineering Controls: Ensure all federal, state and local regulations are observed.

Personal Protective Equipment: Wear clothes and appropriate protective clothing to avoid contact of dust or product on skin. If ventilation is insufficient, wear respiratory protection. To protect eyes from particulates and/or dust, wear safety glasses or goggles.

Hand Protection: Protective gloves.

Eye Protection: Safety glasses or goggles.

Skin and Body Protection: Wear clothing that prevents product contact with skin.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Environmental Exposure Controls: Ensure adequate ventilation is provided, especially in confined areas.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic and Chemical Properties:

Physical State:	Solid.
Appearance:	Granules.
Color:	Brown.
Odor:	Slight, pungent.
Odor Threshold:	N/A.
pH:	N/A.
pH:	N/A.
Relative Evaporation Rate (butyl acetate = 1):	N/A.
Melting Point:	N/A.
Freezing Point:	N/A.
Boiling Point:	N/A.
Flash Point:	N/A.
Auto-ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Flammability (solid, gas):	No data available.
Vapor pressure:	N/A.
Relative Vapor Density at 20° C:	No data available.
Relative Density:	No data available.
Density:	45 (45-65) lb/ft ³ .
Solubility – Water:	Slightly soluble.
Partition Coefficient: n-octanol/water :	No data available.
Viscosity:	N/A.

9.2. Other Information: No additional information available.

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: This product as shipped in the form of coarse granules should not contain sufficient dust to present an explosion hazard. (Prevent dust accumulation to minimize an explosion hazard.)

10.2. Chemical Stability: Stable at standard temperature and pressure.

10.3. Possibility of Hazardous Reactions: There are no hazardous reactions known under normal conditions of use.

10.4 Conditions to Avoid: Protect from moisture. Keep away from heat.

10.5. Incompatible Materials: This material is incompatible with strong acids, bases and oxidizers.

10.6. Hazardous Decomposition Products: Under conditions of fire, this material may produce nitrogen oxides, ammonia, biuret and carbon oxides (CO and CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on the Likely Routes of Exposure:

Inhalation:	Airborne particles and/or mist may be irritating to the respiratory system.
Skin Contact:	Skin contact may cause minor skin irritation.
Eye Contact:	Exposure to dust may cause eye irritation.
Inhalation:	Inhalation of dust may cause respiratory irritation.
Ingestion:	Harmful if swallowed.

11.2. Description of Delayed, Immediate or Chronic Effects from Short and Long Term Exposure: Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Germ Cell Mutagenicity:	Not classified.
Carcinogenicity:	Not classified.
Reproductive Toxicity:	Not classified.
Specific Target Organ Toxicity (Single Exposure):	May cause respiratory irritation.
Specific Target Organ Toxicity (Repeated Exposure):	Not classified.
Aspiration Hazard:	Not classified.

11.3. Numerical Measure of Toxicity: Not available.

11.4. Description of Symptoms:

Symptoms/Injuries After Inhalation:	Over exposure may be irritation to the respiratory system.
Symptoms/Injuries After Skin Contact:	May cause skin irritation.
Symptoms/Injuries After Eye Contact:	May cause eye irritation.
Symptoms/Injuries After Ingestion:	Ingestion of a large quantity may cause abdominal pain, diarrhea, nausea and/or vomiting.

11.5. Carcinogenicity:

National Toxicology Program (NTP) Report on Carcinogens	Not listed.
Agency for Research on Cancer (IARC) Monographs	Not found to be a potential carcinogen.
OSHA	Not found to be a potential carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: Fertilizers may be harmful to aquatic life with short term effects causing algal blooms. This product has a low fertilizer nutrient content which lessens this effect.

12.2. Persistence and Degradability: Largely biodegradable.

12.3. Bio-accumulative Potential: No bio-accumulation is expected.

12.4. Mobility in Soil: No addition information available.

12.5. Other Adverse Effects: No addition information available.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. 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.

13.2. Hazardous Waste Code: This product is not subject to Hazardous Waste Codes.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with Department of Transportation (DOT): Not regulated for transport.

14.2. In Accordance with International Maritime Dangerous Goods Code (IMDG): Not regulated for transport.

14.1. In Accordance with Interantional Air Transport Association (IATA): Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations: This product is not federally registered as a hazardous material. This product does not contain any substances regulated as pollutants pursuant to the US Clean Water Act.

15.2. US State Regulations: This product is not regulated by any state as a hazardous material.

SECTION 16: OTHER INFORMATION

16.1. Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. It is correct to the best of our knowledge, information and belief at the date of publication. The information is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or product specification.