

Holganix LLC – Hazard Communication Safety Data Sheet

HGX Pro Blue Sky 21-0-0

April 9, 2024

Section 1: Identification

1.1. Product Name: HGX Pro Blue Sky 21-0-0

1.2. Common Name: Blue Sky 21-0-0

1.3. Product Type: A solution, slow-release nitrogen fertilizer.

1.4. Company Name/Manufacturer:

Holganix LLC
1000 N 5 Points Road
West Chester, PA 19380
866.563.2784
www.holganix.com

1.5. In an emergency contact:

- **Holganix LLC (9:00 am to 5:00 pm EST/EDT, Mon. through Fri.)** – 866.563.2784.
- **CHEMTREC, 24hr/day 7days/week**
 - Within USA and Canada (Local): 1-703-527-388
 - Toll Free Number: 1-800-424-9300
- **Poison Emergency:** American Association of Poison Control Centers at 1.800.222.1222.
- **Environmental Spill:** National Response Center at 1.800.424.8802.

Section 2: Hazard(s) Identification

2.1. Physical Hazard(s): Not classified.

2.2. Health Hazard(s): Not classified.

2.3. OSHA Defined Hazards: Not classified.

2.4. Product Label Warnings:

- **Hazard Symbol:** Not required.
- **Signal Word:** Not required.
- **Hazard Statement:** Not required.
- **Precautionary Statements:** No precautionary statements are required.

2.5. Eye Exposure: Immediately rinse with water.

2.6. 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.

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

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Section 3: Composition/Information on Ingredients

HGX Pro Blue Sky 21-0-0 is a proprietary blend of urea (CAS # 57-13-6), Triazone (CAS # 7098-14-8), methylene urea (CAS # 598-50-5), molasses (68476-78-8) and water (7732-18-5).

HGX Pro Blue Sky 21-0-0 - Guaranteed Analysis:

Net Contents	Percent (%)
Total Nitrogen (N)	21.0
Urea Nitrogen.....	8.4
*Other Water Soluble Nitrogen.....	12.6

***12.6%** Slowly available nitrogen from Triazone and Methylene Urea.

Derived from: Triazone, Methylene Urea, and Urea.

Also Contains Non-Plant Food Ingredients in Holganix Bio 800+ Breakdown 2-0-0:

- Glucose from Molasses (Microbe Food) 0.005% CAS Number
- Fructose from Molasses (Microbe Food) 0.003% CAS Number
- Sucrose from Molasses (Microbe Food) 0.011% CAS Number
- Fructose from High Fructose Corn Syrup (Microbe Food) 0.010% CAS Number
- Dextrose from High Fructose Corn Syrup (Microbe Food) 0.007% CAS Number
- Brewer's Yeast (Microbe Food) 0.460% CAS Number
- Yucca Extract (Wetting Agent) 0.001% CAS Number

Section 4: First-Aid Measures

4.1. Description of First Aid Measures:

- **First Aid Measures After Inhalation:** Relocate to fresh air. If the nasal cavity is irritated, flush with water. Seek medical attention if irritation occurs and persists.
- **First Aid Measures After Skin Contact:** Wash skin thoroughly with mild soap and water. Seek 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. If ingested in large amounts, **call the USA Poison Control Center at 1-800-222-1222.**

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Section 5: Fire-Fighting Measures

5.1. Extinguishing Media:

- **Suitable Extinguishing Media:** Extinguish with water, fog, foam, and/or carbon dioxide (CO₂). The product is not considered flammable but will burn at high temperatures. Use extinguishing media appropriate for surrounding fire.
- **Unsuitable Extinguishing Media:** Avoid direct stream of water to extinguish.

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 the event of a fire, do not breathe fumes. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-facepiece operating in positive pressure mode.
- **Explosive Hazard:** The product itself is not explosive. Reactivity: This product is non-reactive.

5.3. General Fire Hazards: This product is not flammable.

Section 6: Accidental Release Measures

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

Handle in accordance with good industrial hygiene and safety practices.

- **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:** Contain spillage preventing any leakage to sewers, drainage systems and/or waterways.
- **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 spillage preventing any leakage to sewers, drainage systems and/or waterways.

6.2. Environmental Precautions: Prevent further release of material, if safe to do so. Prevent spillage into waterways. If spillage reaches waterways, notify municipal, and state environmental agencies.

6.3. Method of Containment: Stop the flow of material if this is without risk. Dike the spilled material where possible. Prevent further leakage or spillage, if safe to do so. Do not contaminate the water.

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6.4. Method of Cleaning up: Contain and/or absorb the spill with inert material (e.g. sand, vermiculite, etc.), then place in suitable container. Do not flush to sewer or allow 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 MSDS. Uncontaminated spilled material may be reused.

Section 7: Handling and Storage

7.1. Storage: Covered storage of portable containers is recommended. Store the product in the original, tightly closed container. Do not store above 25°C (77°F) for maximum storage life. Protect from freezing. Store the product away from incompatible materials (See Section 10 of this MSDS). Store the product in closed, sealed containers in a cool, dry place.

7.2. Precautions for Safe Handling: Avoid contact with eyes and prolonged or repeated contact with skin. Wear appropriate personal, protective equipment (See section 8 of this MSDS). Avoid breathing mist or vapor. Use only in well-ventilated areas. Do not use it in areas without adequate ventilation. Contents may develop pressure upon prolonged storage. Handle and open the container with care. Wash thoroughly after handling. Eye wash facilities and an emergency shower must be available when handling this product.

Section 8: Exposure Controls/Personal Protection

8.1. Occupational Exposure Limits: No exposure limits are noted.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

COMPONENT	TYPE	VALUE
Ammonia (CAS 7664-41-7)	PEL	35 mg/m ³ 50 ppm

US. ACGIH Threshold Limit Values

COMPONENT	TYPE	VALUE
Ammonia (CAS 7664-41-7)	STEL	35 ppm 25 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENT	TYPE	VALUE
Ammonia (CAS 7664-41-7)	STEL	27 mg/m ³ 35 ppm 18 mg/m ³ 25 ppm

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US. Workplace Environmental Exposure Level (WEEL) Guides

COMPONENT	TYPE	VALUE	FORM
Urea (CAS 57-13-6)	TWA	10 mg/m ³	Total Particulate

8.2. Biological Limit Values: No biological limit values are noted.

8.3. Appropriate Engineering Controls:

- Adequate ventilation should be provided to avoid inhalation.

8.4. Personal Protective Equipment:

- **Eye and Face Personal Protection:** While working with open containers, wear safety glasses with side shields or goggles and a face shield.
- **Skin Protection:** Wear rubber or neoprene gloves while working with open containers. Wear clothing that will protect you from repeated or prolonged contact with chemical splashes or spills.

Respiratory Protection: No protection is ordinarily required. However, if feasible engineering controls do not prevent overexposure, a full-face respirator with cartridges approved by NIOSH for ammonia vapors and dust/mists may be used only when exposure levels are known to be within the unit's capability. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

8.5. General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practices.

Section 9: Physical and Chemical Properties

9.1. Information on Basic and Chemical Properties:

- **Appearance:**
 - **Physical State:** Liquid.
 - **Form:** Suspension.
 - **Color:** Brown.
- **Odor:** Slightly amide/amine
- **Odor/Threshold:** Not available.
- **pH:** 10.6 (approx.)
- **Melting Point/Freezing Point:** <32°F (0°C).
- **Boiling Point:** 212°F (100°C).
- **Boiling Range:** Not available.

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- **Flash Point:** Non-combustible.
- **Evaporation Point:** Not available
- **Evaporation Rate:** Not available
- **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 available.
- **Vapor Density:** Not available.
- **Relative Density:** Not available.
- **Solubility(s):**
 - **Solubility, Water:** Soluble.
- **Partition Coefficient (n-octanol/H₂O):** Not available.
- **Auto-Ignition Temperature:** Non-flammable.
- **Decomposition Temperature:** Not available.
- **Viscosity:** Not available
- **Other Information:**
- **Bulk Density:** 10.2 lbs/gal.
 - **VOC:** Not available.
 - **Specific Gravity:** 1.23

Section 10: Stability and Reactivity

10.1. Reactivity: This product is stable and non-reactive under normal use, storage, and transport conditions.

10.2. Chemical Stability: Material is stable under normal conditions.

10.3. Conditions to Avoid: Avoid storage in unanimated bulk tanks above the recommended storage temperature (See Section 7 of this MSDS). Avoid incompatible materials and intense heat.

10.4. Incompatible Materials: Strong oxidizing agents. Strong acids.

10.5. Hazardous Decomposition Products: Ammonia fumes may be released upon heating. When heated to decomposition, the product emits acrid smoke and irritating fumes.

Section 11: Toxicological Information

Urea (77-13-6)

Acute Oral LD50 Rats – 8,471 mg/Kg

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11.1 Acute Effects: Not expected to be acutely toxic by ingestion, inhalation, or contact to skin and/or eyes.

11.2. Local Effects: May cause eye irritation. Vapor or spray in the eyes may cause irritation and stinging. Prolonged or repeated skin contact may cause irritation.

11.3. Chronic Effects: This product contains compounds that may release ammonia when heated. Prolonged or repeated exposure to ammonia vapors may harm the eyes, mucous membranes, and/or the upper respiratory tract.

11.4. Carcinogenicity: This product is not considered to be a carcinogen by OSHA.

Section 12: Ecological Information

12.1. Toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

COMPONENTS	ACCUTE	SPECIES	TEST RESULTS
Ammonia (CAS 7664-41-7) Aquatic Fish	LC50	Chinook Salmon (<i>Oncorhynchus tshawyscha</i>)	0.43 – 047 mg/l, 96 Hours
Urea (CAS 57-13-6) Aquatic Fish	LC 50	Ide (<i>Leuciscus idus</i>)	> 6,810 mg/l, 96 Hours

12.2. Persistence and Degradability: This product is biodegradable under aerobic and anaerobic conditions.

12.3. Bio-accumulative Potential: No data is available for this product.

12.4. Mobility in Soil: This product is water soluble and may disperse in soil water.

12.5. Other Adverse Effects: No information available.

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: Assignment of a waste code should be discussed amongst the producer, user, and the waste disposal company(s).

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13.3. Waste from Residue/Unused Products: Disposal recommendations are based upon the material as supplied. Disposal must be in accordance with all local, state, and federal laws and regulations at the time of the disposal.

13.4. Contaminated Packaging: An empty container may still retain product residue. Therefore, it is mandatory to follow label warnings even if you believe the container to be empty.

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 International Air Transport Association (IATA): Not regulated for transport.

Section 15: Regulatory Information

15.1. 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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Version #: 02

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.
cfu:	Colony forming units.
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.

Disclaimer: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Holganix LLC makes no warranties, expressed or implied, including, but not limited to, any implied merchantability or fitness for a particular purpose or course of performance or usage of trade. The user is responsible for determining whether this product is fit for a particular purpose and suitable for the user's method of use or application and assumes the risk of use thereof. The conditions and use of this product are beyond the control of Holganix LLC and Holganix LLC disclaims any liability for loss or damage incurred in connection with the use or misuse of this product. Each user should review the recommended industrial hygiene and safe handling procedures.

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