

Holganix LLC – Hazard Communication Safety Data Sheet

Holganix 6-0-0

January 13, 2016

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

Product Name – Holganix® 6-0-0

SECTION 1: IDENTIFICATION

Holganix LLC

Product Name: Holganix 6-0-0

54 Conchester Road

Common Name: Holganix Lawn

Glen Mills, PA 19342-1506

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 respiratory irritation.

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

46-0-0 urea fertilizer	13.04%	Holganix Blend 66L Ingredients	
Holganix Blend 66L	12.48%	Plant based Compost Tea	76.85%
Biodac®(1)	74.48%	Molasses	19.03%
		Brewer's Yeast	3.82%
		Mycorrhizae	0.22%
		Yucca Extract	0.08%

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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..

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point (°/Test Method): None – p-m closed cup

Flammable Limits (LFL & UFL): Non-flammable

Extinguishing Media: None required. 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.

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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 shirts when opening bags and filling spreaders.

Respiratory protection: None required.

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.

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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.

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.

Holganix LLC – Hazard Communication Safety Data Sheet

Holganix 7-9-5

January 13, 2016

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

Product Name – Holganix® 7-9-5

SECTION 1: IDENTIFICATION

Holganix LLC

Product Name: Holganix 7-9-5

54 Conchester Road

Common Name: 7-9-5

Glen Mills, PA 19342-1506

Product Type: granular fertilizer with nitrogen derived from urea and diammonium phosphate; phosphorus derived from diammonium phosphate and potassium derived from muriate of potash

866.6563.2784

www.holganix.com

SECTION 2: HAZARD(S) IDENTIFICATION

Skin - urea, diammonium phosphate and muriate of potash may each or together cause skin irritation and/or desiccation.

Eyes – urea, diammonium phosphate and muriate of potash may each or together cause eye irritation.

Inhalation – prolonged inhalation of dust from urea, diammonium phosphate and muriate of potash components may each or together cause irritation to the nose and/or upper respiratory system.

Ingestion – the components of Holganix 7-9-5 are each of low toxicity. Upon ingestion, person(s) may experience, digestive tract problem including nausea, vomiting, diarrhea and or cramps. Ingestion of muriate of potash may result in tingling in hands and feet, weak pulse and circulatory disturbances.

Chronic Effects – no chronic effects are known from urea or diammonium phosphate, but muriate of potash may produce lung symptoms.

Carcinogenicity Lists – IARC Monograph – no; NTP – no; OSHA – no

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Holganix 7-9-5

January 13, 2016

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

46-0-0 urea fertilizer	7.75%	Holganix Blend 66L Ingredients	
Diammonium phosphate	19.75%	Plant based Compost Tea	76.85%
Muriate of potash	8.50%	Molasses	19.03%
Holganix Blend 66L	8.41%	Brewer's Yeast	3.82%
Biodac®¹	55.59%	Mycorrhizae	0.22%
		Yucca Extract	0.08%

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.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point:	not applicable
Flammable Limits (LFL & UFL):	non-flammable
Extinguishing Media:	None required. Use medium appropriate for surrounding fire.
Hazardous Combustion Products:	When exposed to high temperatures, urea and diammonium phosphate may release ammonia gas and muriate of phosphate may release chlorine gas.
Special Firefighting Considerations:	Wear full protective clothing and self-contained breathing gear.

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Holganix 7-9-5

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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 shirts when opening bags and filling spreaders.

Respiratory protection: None required.

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: 7 to 8 **Solubility:** Partially soluble in water. Biodac granules are not soluble.

Specific Gravity: 0.8 to 2.0 **Bulk Density:** 50 to 78 lbs/cu ft

Vapor Pressure: not available

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Holganix 7-9-5

January 13, 2016

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

Urea, diammonium phosphate and muriate of potash are not known to be toxic to humans or carcinogenic. Large doses of muriate of potash can cause gastrointestinal irritation and discomfort, weakness and circulatory discomfort. Acute effects associated with these chemicals may include eye, skin and nasal tissue inflammation. There are no human or animal toxicological effects associated with Holganix Blend 66L used in the manufacture of Holganix 7-9-5.

SECTION 12: ECOLOGICAL INFORMATION

Urea, diammonium phosphate and muriate of potash are soil nutrients. They 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.

SECTION 14: TRANSPORT INFORMATION

Transportation of this product is not regulated.

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SECTION 15: REGULATORY INFORMATION

Urea 46-0-0: **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**.

Diammonium phosphate: **CAS #:** 7783-28-0. **SARA Title III:** Reporting required under 311 and 312. **40 CFR Part 355: Extremely Hazardous Substances – None.** **40 CFR Part 370: Hazardous Chemical Reporting – Applicable.** **CALIFORNIA PROPOSITION 65:** This product is not known to cause cancer and is not listed.

Muriate of potash: **CAS #:** Potassium chloride – 7447-40-7 and Sodium chloride – 7647-14-5. **SARA Title III:** No reporting required under 311, 312 or 313. **40 CFR Part 355: Extremely Hazardous Substances – None.** **40 CFR Part 370: Hazardous Chemical Substances – None.** **CALIFORNIA PROPOSITION 65:** This product contains substances that are known to the State of California to cause cancer and/or reproductive harm.

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

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Holganix 10-0-0

January 13, 2016

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

54 Conchester Road

Common Name: 10-0-0

Glen Mills, PA 19342-1506

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

46-0-0 urea fertilizer	21.75%	Holganix Blend 66L Ingredients	
Holganix Blend 66L	12.48%	Plant based Compost Tea	76.85%
Biodac®(1)	65.77%	Molasses	19.03%
		Brewer's Yeast	3.82%
		Mycorrhizae	0.22%
		Yucca Extract	0.08%

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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.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point (°/Test Method): None – p-m closed cup

Flammable Limits (LFL & UFL): Non-flammable

Extinguishing Media: None required. 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.

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Holganix 10-0-0

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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 shirts when opening bags and filling spreaders.

Respiratory protection: None required.

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.

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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.

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

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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.

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Holganix 10-0-0

607 Liberty Street, Green Bay, WI 920.435.5200

January 13, 2016

Holganix LLC – Hazard Communication Safety Data Sheet

Holganix 10-1-2

January 13, 2016

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

Product Name – Holganix® 10-1-2

SECTION 1: IDENTIFICATION

Holganix LLC

Product Name: Holganix 10-1-2

54 Conchester Road

Common Name: 10-1-2

Glen Mills, PA 19342-1506

Product Type: granular fertilizer with nitrogen derived from urea, methylene urea and diammonium phosphate; phosphorus derived from diammonium phosphate and potassium derived from sulfate of potash

866.6563.2784

www.holganix.com

SECTION 2: HAZARD(S) IDENTIFICATION

Skin - urea, methylene urea, diammonium phosphate and sulfate of potash may each or together cause skin irritation and/or desiccation.

Eyes – urea, methylene urea, diammonium phosphate and sulfate of potash may each or together cause eye irritation.

Inhalation – prolonged inhalation of dust from urea, methylene urea, diammonium phosphate and sulfate of potash components may each or together cause irritation to the nose and/or upper respiratory system.

Ingestion – the components of Holganix 7-9-5 are each of low toxicity. Upon ingestion, person(s) may experience digestive tract problem including nausea, vomiting, diarrhea and or cramps. Ingestion of sulfate of potash may result gastrointestinal upset, abdominal pain and diarrhea.

Chronic Effects – no chronic effects are known from the ingredients of this product.

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Holganix 10-1-2

January 13, 2016

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

46-0-0 urea fertilizer	10.00%	Holganix Blend 66L Ingredients	
Diammonium phosphate	2.25%	Plant based Compost Tea	76.85%
Methylene urea	12.75%	Molasses	19.03%
Sulfate of potash	4.00%	Brewer's Yeast	3.82%
Holganix Blend 66L	11.78%	Mycorrhizae	0.22%
Biodac® ¹	59.22%	Yucca Extract	0.08%

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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Holganix 10-1-2

January 13, 2016

SECTION 5: FIRE-FIGHTING MEASURES

Fire Hazard:	Methylene urea, a component of Holganix 10-1-2, will burn if exposed to fire. When mixed with air, fine particles (dust) may form an explosion hazard.
Extinguishing Media:	Extinguish fire with foam carbon dioxide, dry powder or foam.
Hazardous Combustion Products:	When exposed to high temperatures, urea, methylene urea and diammonium phosphate may release ammonia .
Special Firefighting Considerations:	Wear full protective clothing and self-contained breathing gear.
Fire Fighting Methods:	If possible, move containers not involved in the fire away from the area involved in the fire.

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.

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Holganix 10-1-2

January 13, 2016

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 shirts when opening bags and filling spreaders.

Respiratory protection: None required.

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: 7 to 8 **Solubility:** Partially soluble in water. Biodac granules are not soluble.

Specific Gravity: 0.8 to 2.0 **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

Urea, methylene urea, diammonium phosphate and sulfate of potash are not known to be toxic to humans or carcinogenic. Large doses of sulfate of potash can cause gastrointestinal irritation. Acute effects associated with these chemicals may include eye, skin and nasal tissue inflammation. There are no human or animal toxicological effects associated with Holganix Blend 66L used in the manufacture of Holganix 7-9-5.

Holganix LLC – Hazard Communication Safety Data Sheet

Holganix 10-1-2

January 13, 2016

SECTION 12: ECOLOGICAL INFORMATION

Urea, methylene urea, diammonium phosphate and sulfate of potash are soil nutrients. They 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.

SECTION 14: TRANSPORT INFORMATION

Transportation of this product is not regulated.

SECTION 15: REGULATORY INFORMATION

Urea 46-0-0: **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**.

Diammonium phosphate: **CAS #:** 7783-28-0. **SARA Title III:** Reporting required under 311 and 312. **40 CFR Part 355: Extremely Hazardous Substances – None.** **40 CFR Part 370: Hazardous Chemical Reporting – Applicable.** **CALIFORNIA PROPOSITION 65:** This product is not known to cause cancer and is not listed.

Sulfate of potash: **CAS #:** 7778-80-6. **SARA Title III:** 311 and 312 are not covered by Title III of SARA. No component of sulfate of potash is at or above the minimum concentration for chemicals listed in Section 313 of SARA. **40 CFR Part 355: Extremely Hazardous Substances – None.** **40 CFR Part 370: Hazardous Chemical Substances – None.**

Holganix LLC – Hazard Communication Safety Data Sheet

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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

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12-0-2 (20% slow release) with RegalKade 37

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

Product Name – 12-0-2 (20% slow release) with RegalKade 37®

SECTION 1	IDENTIFICATION
Holganix® LLC	Product Name: 12-0-2 (20% slow release) with RegalKade 37
54 Conchester Road	Common Name: 12-0-2 (20% slow release) with prodiamine
Glen Mills, PA 19342-1506	Product Type: granular fertilizer with herbicide
866.563.2784	
www.holganix.com	

SECTION 2	HAZARD(S) IDENTIFICATION
Ingredient(s): prodiamine, urea, polymer coated sulfur coated urea, muriate of potash, Holganix and Biodac® (cellulose complex)	
Herbicide Chemical Name: prodiamine (2,4-dinitro-N',N'-dipropyl-6-(trifluoromethyl)benzene-1,3-diamine) – 0.37% by weight, Threshold Limit Value – not determined	
Skin – prolonged contact may cause skin irritation after acute exposure.	
Eyes – mildly irritating.	
Inhalation - avoid breathing dust.	

SECTION 3		COMPOSITION / INFORMATION ON INGREDIENTS	
<u>Ingredients</u>			
Holganix Blend 66L	9.78%	Holganix Blend 66L Ingredients	
Biodac Granules	60.44%	Plant based Compost Tea	76.85%
46-0-0	26.09%	Molasses	19.03%
Muriate of Potash	3.32%	Brewer’s Yeast	3.82%
Prodiamine	0.37%	Mycorrhizae	0.22%
		Yucca Extract	0.08%

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SECTION 4 FIRST AID MEASURES

- Eye Contact:** Flush with water until clear. Seek medical attention if symptoms develop or irritation persists.
- Skin Contact:** Wash with soap and water until clear. Rinse thoroughly. Seek medical attention if symptoms develop or irritation persists.
- If Swallowed:** 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.
- If Inhaled:** Relocate to fresh air. If nasal cavity is irritated, flush with water.

SECTION 5 FIRE-FIGHTING MEASURES

- Flash Point (°/Test Method):** None – p-m closed cup
- Flammable Limits (LFL & UFL):** Not applicable
- Extinguishing Media:** None required. Use medium appropriate for surrounding fire.
- Hazardous Combustion Products:** Not applicable
- Special Fire Fighting Procedures:** In severe fire involving 12-0-2 (20% slow release) with RegalKade 37, wear protective clothing & self contained breathing equipment.

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.

SECTION 7 HANDLING AND STORAGE

Store 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 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.

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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 handling product, cover open sores or wounds. Wear rubber gloves when opening bags and filling spreaders.
Respiratory protection:	None required.
Ventilation requirements:	Use outdoors only.
Additional Protective Measures:	None required.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Granules
Color:	Yellow, gray
Odor:	Sweet odor from molasses and yeast
pH:	Neutral
Solubility in Water:	Partially, Biodac granules are not soluble.
Specific Gravity:	0.8 – 1.2.
Bulk Density:	50 – 78 lbs/cu ft.
Vapor Pressure:	less than 1 mm

SECTION 10 STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous Polymerization:	Does not occur.
Incompatibilities:	None known.
Instability Conditions:	None known.
Decomposition Products:	Not established.

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SECTION 11 TOXICOLOGICAL INFORMATION

Oral Ingestion:	LD40 (rats) – greater than 5,000 mg/kg
Eye Contact:	Rabbits – mildly irritating
Skin Contact:	Possible skin irritation after acute exposure
Skin Absorption:	May cause skin sensitization in some people
Inhalation:	Avoid breathing dust

SECTION 12 ECOLOGICAL INFORMATION

This product is biodegradable in the natural environment. RegalKade 37 (prodiamine) is an herbicide that kills seedling grasses. If spilled in concentrated amounts, it may inhibit grass germination until totally degraded. If a spill occurs, dig up the product and exposed soil and discard in an approved chemical waste facility. Biodac is a granule composed of cellulose material. It is a carbon source for soil. Holganix is composed of naturally occurring soil microbes.

SECTION 13 DISPOSAL CONSIDERATIONS

12-0-2 (20% slow release) with RegalKade 37 is a granular fertilizer with RegalKade 37, a pre-emergent herbicide. Do not reuse product containers. Open dumping of product and/or product containers is prohibited.

SECTION 14 TRANSPORT INFORMATION

Transportation of this product is not regulated.

SECTION 15 REGULATORY INFORMATION

NFPA Ratings	Health	1
	Flammability	1
	Reactivity	0

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SECTION 16

OTHER INFORMATION

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RegalKade is a registered trademark of Regal Chemical Company (600 Branch Drive, Alpharetta, GA 770.521.0488).