

Section 1: Company and Product Identification

Product Name:	PIAZZ™	General Product Description:
Product Code:	AC-PIAZZIBC	PIAZZ is a dry seed treatment designed to impart a shine on the finished treated seed.
Company:	Agrilead, Inc. 441 E. Lucas Street Russell, KS 67665 PH: 785-483-5000	
Emergency Response:	INFOTRAC 800-535-5053	

Section 2: Hazards Identification

OSHA/HCS STATUS:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
Hazard Pictograms:	Not Applicable	
Signal Word:	Not Applicable	Note: a CAUTION signal word is included on the package label as good measure to keep product out of reach of children.
Hazard Category:	Non-classified	
Hazard Statements:	Risk of cancer depends on duration and level of exposure. No evidence of risk to humans. (TiO ₂)	
Precautionary Statements:	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.	
Hazards not otherwise classified:	Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.	

Section 3: Composition / Information on Ingredients

Ingredient Name	Cas #	%
Titanium Dioxide	13463-67-7	18-38
Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.		

Section 4: First Aid Measures

General Info:	In general, product does not have any acute hazard characteristics. Treat exposures symptomatically as needed.
Potential acute health effects:	Eye Contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Skin Contact: No known significant effects or critical hazards. Ingestion: No known significant effects or critical hazards.

FIRST AID If ingested:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
FIRST AID If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
FIRST AID Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
FIRST AID Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Note to Physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: Fire Fighting Measures

General Info:	No specific fire or explosion hazard.
Extinguishing Method / Equipment:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Special protective actions for fire- fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous Decomposition Info:	Decomposition products may include the following materials: metal oxide/oxides.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures:	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing dust. Ventilate area if easy to do so. For personal protection, see section 8 of the SDS.
Containment Equipment and Procedures:	Small Spills: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Large Spills: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7: Handling and Storage

Safe Handling Precautions:	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.
Recommendations for Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Incompatibilities:	No specific data available.

Section 8: Exposure Control / Personal Protection

General / Engineering Controls:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Work Clothing:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Skin Protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection:	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, air-purifying or airfed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Substances with Exposure Limits	CAS#	Exposure Limits
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 2/2013). TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 4/2014). TWA: 10 mg/m ³ 8 hours.

Section 9: Physical and Chemical Properties

Physical State:	Solid [Powder]	Melting Point:	Not available
Color:	Off-White	Boiling Point/Range:	Not available
Oder:	Oderless	pH:	Not Tested
Relative Density:	2.3 to 3	Flash Point:	Not applicable
VOC %	0%	Lower Flam Limits:	Not tested

Section 10: Stability and Reactivity

Stability/Reactivity:	The product is stable. There is no specific test data related to reactivity of this product or its ingredients.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible materials:	No specific data.
Decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

Toxicological Information (contained substances)

Hazardous substance (name)	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

Acute Toxicity (Conclusion/Summary):	No known significant effects or critical hazards.
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Likely Routes of Exposure: Not available.

Potential Acute Health Effects: **Eye Contact:** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. **Inhalation:** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. **Skin Contact:** No known significant effects or critical hazards. **Ingestion:** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye Contact: Adverse symptoms may include irritation & redness. **Inhalation:** Adverse symptoms may include respiratory tract irritation, coughing. **Skin Contact:** No specific data. **Ingestion:** No specific data.

Potential Chronic Health Effects:

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity or mutagenicity: No known significant effects or critical hazards.

Other Notes: No known significant effects or critical hazards for teratogenicity, developmental, or fertility effects.

Section 12: Ecological Information

Persistence and Degradability: Not available.

Mobility in Soil: Not available.

Bioaccumulative potential: Not available.

Product/Ingredient	Result	Species / Exposure
Titanium Dioxide	Acute EC50 >1000000 µg/l Fresh water	Daphnia - Daphnia magna / 48 hours
	Acute LC50 20000 mg/l Fresh water	Daphnia - Daphnia magna -Neonate / 48 hours
	Acute LC50 5.5 ppm Fresh water	Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling) / 48 hours
	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus / 96 hours
	Chronic NOEC 1 ppm Fresh water	Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling) / 48 hours
	Chronic NOEC 500 ppm Fresh water	Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling) / 48 hours

Section 13: Disposal Information

Disposal Methods:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

DOT: Not regulated for transport.

IMO/IMDG: Not regulated for transport.

IATA: Not regulated for transport.

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15: Regulatory Information

TSCA: All components listed on the TSCA 8(b) inventory.

U.S. Federal regulations: Clean Water Act (CWA) 311: sodium hydroxide

SARA 313 None identified

Toxics in Packaging (CONEG): In compliance.

Canadian DSL: All substances in product are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

International Lists:

Malaysia Inventory (EHS Register): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Europe Inventory: Please contact your supplier to get the information.

Section 16: Other Information

National Fire Protection Association (U.S.A.)

1 - Health

0 - Special

0 - Instability/Reactivity

0 - Flammability

SDS Author: Agrilead Regulatory Manager

Version Date: 10/2/2017

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

Section 1: Company and Product Identification

Product Name:	SLIX™	General Product Description:
Product Code:	AC-SLIX	SLIX is a dry seed treatment designed to impart a shine along with lubricity to treated seed.
Manufactured By:	Agrilead, Inc. 345 S. Fossil Street Russell, KS 67665 PH: 785-483-5000	
Emergency Response:	INFOTRAC 800-535-5053	

Section 2: Hazards Identification

OSHA/HCS STATUS:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Hazard Pictograms:	Not Applicable
Signal Word:	Warning
Hazard Category:	COMBUSTIBLE DUSTS
Hazard Statements:	May form combustible dust concentrations in the air.
Precautionary Statements:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.
Hazards not otherwise classified:	Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3: Composition / Information on Ingredients

Ingredient Name	Cas #	%
Mica	12001-26-2	40-64
Titanium Dioxide	13463-67-7	18-38
Graphite	7782-42-5	< 50%

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4: First Aid Measures

General Info:	In general, product does not have any acute hazard characteristics. Treat exposures symptomatically as needed.
Potential acute health effects:	Eye Contact: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Skin Contact: No known significant effects or critical hazards. Ingestion: No known significant effects or critical hazards.

FIRST AID If ingested:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
FIRST AID If inhaled:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
FIRST AID Eye contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
FIRST AID Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Note to Physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5: Fire Fighting Measures

General Info:	May form explosible dust-air mixture if dispersed.
Extinguishing Method / Equipment:	Use dry chemical powder.
Special protective actions for fire- fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous Decomposition Info:	Decomposition products may include the following materials: metal oxide/oxides, carbon dioxide, carbon monoxide.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and procedures:	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing dust. Ventilate area if easy to do so. For personal protection, see section 8 of the SDS.
Containment Equipment and Procedures:	<p>Small Spills: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.</p> <p>Large Spills: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.</p>

Section 7: Handling and Storage

Safe Handling Precautions:	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust.
Recommendations for Storage:	<p>This material may be combustible at temperatures greater than 200° F or when dispersed within fine particle dust clouds created during operations; keep away from sources of ignition, sparks, and open flames. When handling dry powders it is advisable to ground mechanical equipment in contact with dry material to dissipate the potential buildup of static electricity.</p> <p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Incompatibilities:	No specific data available.

Section 8: Exposure Control / Personal Protection

General / Engineering Controls:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Work Clothing:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye/face protection:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields. If operating conditions cause high dust concentrations to be produced, use dust goggles.
Skin Protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection:	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, air-purifying or airfed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Substances with Exposure Limits	CAS#	Exposure Limits
Mica	12001-26-2	OSHA PEL 1989 (United States, 3/1989). TWA: 3 mg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2016). TWA: 3 mg/m ³ 8 hours. Form: Respirable dust OSHA PEL Z3 (United States, 6/2016). TWA: 20 mppcf 8 hours.
Titanium Dioxide	13463-67-7	OSHA PEL (United States, 2/2013). TWA: 15 mg/m ³ 8 hours. Form: Total dust OSHA PEL 1989 (United States, 3/1989). TWA: 10 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 4/2014). TWA: 10 mg/m ³ 8 hours.
Graphite	7782-42-5	OSHA PEL Z3 (United States, 6/2016). TWA: 15 mppcf 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 2.5 mg/m ³ 8 hours. Form: Respirable dust ACGIH TLV (United States, 3/2019). TWA: 2 mg/m ³ 8 hours. Respirable fraction

Section 9: Physical and Chemical Properties

Physical State:	Powder [non-free flowing]	Melting Point:	Not available
Color:	Dark Gray	Boiling Point/Range:	Not available
Oder:	Oderless	pH:	Not Tested
Density:	24 to 28 lbs/ft ³	Flash Point:	Not available
VOC %	0%	Lower Flam Limits:	Not tested

Section 10: Stability and Reactivity

Stability/Reactivity:	The product is stable. There is no specific test data related to reactivity of this product or its ingredients.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible materials:	Reactive or incompatible with oxidizing materials.
Decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological Information

Toxicological Information (contained substances)

Hazardous substance (name)	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-

Acute Toxicity (Conclusion/Summary): No known significant effects or critical hazards.

Likely Routes of Exposure: Not available.

Potential Acute Health Effects: **Eye Contact:** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes. **Inhalation:** Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. **Skin Contact:** No known significant effects or critical hazards. **Ingestion:** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics:

Eye Contact: Adverse symptoms may include irritation & redness. **Inhalation:** Adverse symptoms may include respiratory tract irritation, coughing. **Skin Contact:** No specific data. **Ingestion:** No specific data.

Potential Chronic Health Effects:

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity or mutagenicity: No known significant effects or critical hazards.

Other Notes: No known significant effects or critical hazards for teratogenicity, developmental, or fertility effects.

Section 12: Ecological Information

Persistence and Degradability: Not available.

Mobility in Soil: Not available.

Bioaccumulative potential: Not available.

Product/Ingredient	Result	Species / Exposure
Titanium Dioxide	Acute EC50 >1000000 µg/l Fresh water Acute LC50 20000 mg/l Fresh water Acute LC50 5.5 ppm Fresh water Acute LC50 >1000000 µg/l Marine water Chronic NOEC 1 ppm Fresh water Chronic NOEC 500 ppm Fresh water	Daphnia - Daphnia magna / 48 hours Daphnia - Daphnia magna -Neonate / 48 hours Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling) / 48 hours Fish - Fundulus heteroclitus / 96 hours Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling) / 48 hours Daphnia - Daphnia magna -Juvenile (Fledgling, Hatchling, Weanling) / 48 hours
Graphite	EC50 >100 mg/l EC50 >1000 mg/l Acute LC50 >100 mg/l Acute LC50 >100 mg/l	Aquatic Plants / 72 hours Micro-organism / 3 hours Aquatic invertebrates / 48 hours Fish / 96 hours

Section 13: Disposal Information

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14: Transport Information

DOT: Not regulated for transport.

IMO/IMDG: Not regulated for transport.

IATA: Not regulated for transport.

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15: Regulatory Information

TSCA:	All components listed on the TSCA 8(b) inventory.
U.S. Federal regulations:	Clean Water Act (CWA) 311: sodium hydroxide
SARA 313	None identified
Toxics in Packaging (CONEG):	In compliance.
Canadian DSL:	All substances in product are listed or exempted.
International Lists:	Australia inventory (AICS): All components are listed or exempted.
	China inventory (IECSC): All components are listed or exempted.
	Japan inventory: All components are listed or exempted.
	Korea inventory: All components are listed or exempted.
	Malaysia Inventory (EHS Register): Not Determined.
	New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
	Philippines inventory (PICCS): All components are listed or exempted.
	Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.
	Turkey Inventory: Not Determined.
Europe Inventory: Please contact your supplier to get the information.	

Section 16: Other Information

National Fire Protection Association (U.S.A.)

1 - Health | Materials that cause irritation upon exposure, but only minor injury is sustained even if no medical treatment is provided.

0 - Special

0 - Instability/Reactivity

1 - Flammability | Materials that must be preheated before ignition can occur.

SDS Author:	Agrilead Regulatory Manager	Version Date:	4/5/2022
		Replaces:	initial

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

Safety Data Sheet

Issue Date: 01-Oct-2020

Revision Date: 01-Oct-2020

Version 1

1. IDENTIFICATION

Product identifier

Product Name BellaTrove Companion Maxx ST

Other means of identification

SDS # GRPR-064b

Registration Number(s) Reg. No. 94485-5

Recommended use of the chemical and restrictions on use

Recommended Use For agricultural use.

Details of the supplier of the safety data sheet

Supplier Address

DPH Biologicals
21417 County Road 1950 East
Princeton, IL 61356 USA

Emergency telephone number

Company Phone Number (815) 872-1190
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Emergency Overview This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Powder

Physical state Solid

Classification

Acute toxicity - Oral	Category 4
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Signal Word

Warning

Hazard statements

Harmful if swallowed



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
Rinse mouth

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Nutrient	Proprietary	5.1-5.4

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Remove to fresh air.
Ingestion	Call a poison center or doctor/physician if you feel unwell. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms	Causes mild skin irritation. Harmful if swallowed.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protective equipment as required.
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Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Nutrient	TWA: 1 mg/m ³ Fe	(vacated) TWA: 1 mg/m ³ Fe	TWA: 1 mg/m ³ Fe

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	Not determined
Appearance	Powder	Odor Threshold	Not determined
Color	Not determined		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	4.08	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	Not determined	
Water Solubility	Not determined	

Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Harmful if swallowed.

Component Information

Not available

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Oral LD50	500.00 mg/kg
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12. ECOLOGICAL INFORMATION

Ecotoxicity

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.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

Not regulated

IATA

Not regulated

IMDG

Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Nutrient	X	ACTIVE	X	X	X	X	X	X	X
Active Ingredient	X	ACTIVE							
Nutrient	X				X	X		X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Nutrient	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Nutrient				X

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Nutrient		X	X

EPA Pesticide Registration Number Reg. No. 94485-L

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label

TBD

Difference between SDS and EPA pesticide label

	EPA	SDS
Signal Word	TBD	Danger
Acute toxicity – Oral	TBD	Harmful if swallowed

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

HMIS**Health Hazards****Flammability****Physical hazards****Personal Protection**

Not determined

Not determined

Not determined

Not determined

Issue Date: 01-Oct-2020**Revision Date:** 01-Oct-2020**Revision Note:** New format**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet