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SAFETY DATA SHEET

Revision date: 4/16/2021

Version 1.0

SECTION 1 - SUBSTANCE IDENTITY AND COMPANY INFORMATION

PRODUCT NAME: biottrinsic W10 WP

COMPANY INFORMATION: Indigo Ag, Inc.
500 Rutherford Ave
Charlestown, MA 02129
USA

CONTACT INFORMATION: +1 844-828-0240
www.indigoag.com

EMERGENCY CONTACT: CHEMTREC 1-800-424-9300/+1 703-527-3887

SECTION 2 - HAZARD IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product: No need for classification according to GHS criteria for this product.

Label elements: The product does not require a hazard warning label in accordance with GHS criteria.

No particular hazards known.

This product should be handled according to good laboratory practices, with proper personal protective equipment, proper engineering controls and within the parameters of the user's safety program.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

No particular hazards known.

CAS Number: N/A

Active ingredient: *Bacillus simplex*

Inert ingredient: Wettable powder

SECTION 4 - FIRST AID MEASURES

General advice: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air.

If on skin: Wash thoroughly with soap and water.

If swallowed: Rinse mouth and then drink plenty of water.

If in eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open.

Most important symptoms and effects, both acute and delayed:

No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically (decontamination, vital functions).

SECTION 5 - FIRE FIGHTING MEASURES

General hazard: No unusual fire or explosion hazards known to exist.

Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters. Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information: Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures



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Do not breathe vapor/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (sand, sawdust, general binder).

For large amounts: Barrier the spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling

No special measures necessary if stored and handled correctly according to the label. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion

No special precautions necessary. The product is non-combustible. The product is not explosive.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions

Store at 22°C. Protect from direct sunlight. Do not freeze.

Changes in the properties of the product may occur if substance/product is stored above or below indicated temperature for extended periods of time.

Handle and store according to instructions on the label.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in immediate vicinity of any potential exposure.

Personal Protective Equipment



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Respiratory protection: Wear respiratory protection if ventilation is inadequate. Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.

Eye protection: Wear safety glasses with side shields.

Hand protection: Wear protective gloves.

Body protection: Body protection must be chosen depending on activity and possible exposure, e.g. protective clothing, head protection, apron, protective boots.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: dry powder

Color: Tan

pH value: approx. 7 (20 °C)

Density: approx. 0.67 g/cm³

Flash point: N/A

Flammability: N/A

SECTION 10 - STABILITY AND REACTIVITY

This material is stable under normal conditions of use.

No hazardous reactions if stored and handled as prescribed / indicated.

No hazardous decomposition products if stored and handled as prescribed / indicated.

Based on its structural properties the material is not classified as oxidizing.

Conditions to avoid: see SDS Section 7 – Handling and Storage

SECTION 11 - TOXICOLOGICAL INFORMATION

Primary Routes of Exposure

Routes of entry for powders are inhalation and ingestion but may include eye or skin contact.

Eye Contact: Data not available. Avoid eye contact.



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Skin Contact: Data not available. Avoid skin contact.
Skin Absorption: Data not available. Avoid skin absorption.
Inhalation: Data not available. Avoid inhalation.
Ingestion: Data not available. Avoid ingestion.
Parenteral Exposure: Data not available. Avoid parenteral exposure.
Skin Sensitization: Data not available. Avoid skin contact.
Respiratory: Data not available. Avoid inhalation.

Effects of Long Term or Repeated Exposure: Data not available
Chronic Exposure—Teratogen: Data not available
Chronic Exposure—Mutagen: Data not available
Chronic Exposure—Reproductive Hazard: Data not available

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is currently available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal of material and container: Follow local applicable waste disposal regulations for inoculants and plant amendments. Dispose in a safe manner.

SECTION 14 - TRANSPORT INFORMATION

Land transport US DOT

Not classified as a dangerous good under transport regulations.

Sea transport IMDG

Not classified as a dangerous good under transport regulations.

Air transport IATA /ICAO

Not classified as a dangerous good under transport regulations.

SECTION 15 - REGULATORY INFORMATION

No classification currently assigned.
Contact Indigo Ag, Inc., for regulatory information.

SECTION 16 - OTHER INFORMATION



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THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE CORRECT BASED UPON DATA AVAILABLE. WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY.



SAFETY DATA SHEET

SDS ID: 92311-2-95213

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	biotrinsic by Indigo X12 WD Biofungicide
Product use / type:	Fungicide
Uses advised against / restrictions:	Refer to product label.
EPA Registration No.:	92311-2-95213
Chemical name / synonym / active ingredient(s):	Natamycin; 6,11,28-trioxatricyclo[22.3.1.0 ^{5,7}]octacos-8,14,16,18,20-pentaene-35-carboxylic acid, 22-[(3-amino-3,6-dideoxy-β-D-mannopyranosyl)oxy]-1,3,26-trihydroxy-12-methyl-10-oxo-, (1R,3S,5R,7R,8E,12R,14E,16E,18E,20E,22R,24S,25R,26S)-
Manufacturer / Registrant:	Ceradis B.V. / Indigo Ag, Inc. 710 Antrim Meadow Ln Cary, NC 27519
Manufacturer's Telephone:	919-234-6242
Email:	info@ceradis.com
Emergency phone number:	1-800-222-1222

2. HAZARDS IDENTIFICATION

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Classification Not classified

EMERGENCY OVERVIEW

Appearance: Off-white

Physical state: Liquid

Odor: Characteristic

Other Information / Potential Hazards:

None known based on supplied information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Natamycin	7681-93-8	13.459
Other ingredients	-	**

**** Exact concentration of components withheld as a trade secret. Values are not product specifications.**

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4. FIRST AID MEASURES

If swallowed:	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If in Eyes:	Hold eye open and rinse gently with water for 15-30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If on skin or clothing:	Remove contaminated clothing and shoes. Rinse skin immediately with plenty of water for 15-30 minutes. Call a poison control center or doctor for treatment advice.
If inhaled:	Move person to fresh air. If person is not breathing, call 911 or get medical help, then give artificial respiration, preferably mouth-to-mouth with the aid of a pocket mask equipped with a one-way valve. Call a poison control center or doctor for treatment advice.
Most important symptoms, both acute and delayed:	Causes temporary eye irritation.
Immediate and any special treatment:	Removal of exposure followed by symptomatic and supportive care. No other information available.

5. FIRE-FIGHTING MEASURES

Flammable properties:	Not flammable.
Extinguishing media:	Water fog, dry chemical, foam and carbon dioxide (CO ₂)
Unsuitable extinguishing media:	High pressure water streams.
Specific material hazards	Under fire conditions, may emit irritating vapors, carbon dioxide and carbon monoxide.
Firefighting measures:	Use extinguishing media appropriate for surrounding fire. Prevent contaminated firefighting waters and spillage from entering sewers, drains and waterways.

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Protective equipment and precautions for firefighters:

Wear full protective firefighting gear including self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear protective gloves / clothing and eye protection. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation.

Environmental precautions:

Prevent entry into waterways, lakes, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods for containment:

Dike to contain spill with inert material (e.g. sand, silica gel, or binder).

Methods for cleanup:

Soak up with inert absorbent. Pick up and transfer to properly labeled containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product.

Condition for safe storage:

Store and handle in accordance with good industrial hygiene practices. Keep container tightly closed. Store in a cool and well-ventilated place. Store in original labeled container. Store away from direct sunlight between 40°F and 90°F.

Incompatible storage situations:

Separate pesticides during storage to prevent cross-contamination of other pesticides, fertilizers, food, and feed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Guidelines:

The following recommendations for exposure controls are intended for the manufacture, formulation and packaging of this material. Commercial applicators and/or on-farm applications should refer to the product label for personal protection equipment.

Workplace Control Parameters:	Exposure Guidelines
	No specific occupational exposure limits established.
Engineering controls:	Emergency eye wash. Ensure adequate ventilation or provide local exhaust.
Personal protective equipment:	Follow personal protective equipment manufacturers recommendations for use, cleaning and maintenance.

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Eye / face protection:	Safety glasses with side-shields.
Body / skin protection:	Long sleeved shirt, long pants, shoes plus socks. Wash work clothing before reuse.
Hand protection:	Waterproof gloves / hand protection.
Respiratory protection:	If handling without sufficient ventilation or excess airborne exposure, wear a dust / mist filtering respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Appearance:	Off-white
Odor:	Characteristic
pH:	8.05
Melting / freezing point:	No information available
Boiling point	No information available
Flash point:	> 200.6° F / 93.7° C
Explosive properties:	No information available
Autoignition temperature:	No information available
Vapor pressure:	No information available
Oxidizing properties:	No information available
Relative density:	1.1145 g/cm ³
Solubility:	Miscible
Viscosity:	130 cSt at 25° C

10. STABILITY AND REACTIVITY

Reactivity / chemical stability:	Stable under normal temperature and conditions.
Possibility of hazardous reactions:	Not expected under normal conditions of handling and use.
Conditions to avoid:	No information available.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	No information available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation	May be harmful if inhaled.
Eye contact	Causes minimal but temporary eye irritation.
Skin contact	Slightly irritating.
Ingestion	May be harmful if swallowed.

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Product numerical measures of toxicology:

Acute oral LD ₅₀ :	Rat >5000 mg/kg
Acute dermal LD ₅₀ :	No information available.
Acute inhalation LC ₅₀ :	Rat >2.23 mg/L
Eye irritation:	Slight irritation.
Skin irritation:	Slight irritation.
Sensitization:	Not a sensitizer (mice).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Component information:

Natamycin (7681-93-8)

Acute oral LD ₅₀ :	Rat >5000 mg/kg
Sensitization (experience with human exposure):	No information available.
Mutagenic effects:	No information available.
Carcinogenicity:	Not listed on NTP, IARC or OSHA lists.
Reproductive / Developmental effects:	No information available.

12. ECOLOGICAL INFORMATION

Environmental Hazards:	Keep out of any body of water.
Ecotoxicity: Natamycin (7681-93-8)	LDC ₅₀ : >2000 mg/kg bw <i>Avain spp.</i>
Persistence and degradability:	No information available.
Bioaccumulation:	No information available.
Mobility:	No information available.

13. DISPOSAL CONSIDERATIONS

Product disposal:	Wastes resulting from the use of this product must be disposed in accordance with applicable Federal, State or local regulations. Keep out of drains, sewers, ditches and water ways.
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Container disposal: Refer to product label for container disposal. Do not reuse containers.

14. TRANSPORT INFORMATION

U.S. DOT: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

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:

CAUTION. Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

TSCA: TSCA exempt; regulated under FIFRA.

SARA 311/312: Refer to section 2 for GHS hazards.

SARA 313: No substances listed.

CERCLA: No substances listed.

U.S. State Regulations:

State Right-to-Know Regulations: Pennsylvania Right-to-know; Water (7732-18-5).

16. OTHER INFORMATION

NFPA Ratings:	Health	Fire	Instability
	0	0	0

Version Number: 1.0
Revision Date: June 22, 2020
Revision Note: Initial release

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists
CAS - Chemical Abstracts Service
C – Centigrade
cSt - Centistokes
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
DOT - Department of Transportation
F – Fahrenheit
FIFRA – Federal Insecticide Fungicide and Rodenticide Act

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GHS – Global Harmonized System
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC / LD – Lethal Concentration / Lethal Dose
NFPA - National Fire Protection Association
NTP - National Toxicology Program
OSHA – Occupational Safety and Health Administration
RCRA - Resource Conservation and Recovery Act
SARA - Superfund Amendments and Reauthorization Act
TSCA - Toxic Substances Control Act

Other information / 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