

EndoFine® Biostim Foliar

Revision Date: **APR 26 2023**

SAFETY DATA SHEET

SECTION 1: PRODUCT INFORMATION

Product Identifier: EndoFine® Biostim Foliar

Other Means of Identification: *Clonostachys rosea* strain 88-710

Registration Number: **2023049S**

Product Use: Plant health biostimulant. Read the product label, authorized under the *Fertilizers Act*, prior to using or handling this agricultural supplement product.

Adjuvants Plus Inc.
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SDS prepared by: Adjuvants Plus Inc.
For further information, contact: 1-877-512-4659

In Case of Emergency, Call: 1-800-268-9017 (Ontario Poison Centre)

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with UN GHS Version 5.

Hazard Classification(s):

Skin Sensitization – Category 1

Hazard Symbol(s):



Signal Word: WARNING

Hazard Statement(s):

H317 – May cause an allergic skin reaction.

Precautionary Statement(s):

Prevention:

P102 – Keep out of reach of children

P210 – Keep away from heat, hot surfaces, open flames and other sources of ignition. No smoking.

P243 – Take action to prevent static discharge.

P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves.

Response:

P302+P352 – IF ON SKIN: Wash with plenty of water.

P321 – Specific treatment: See Section 4 of this SDS.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 – Take off contaminated clothing and wash it before reuse.

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Storage:

Not applicable.

Disposal:

P501 – Dispose of contents/containers in accordance with local regulations.

Other Hazards Which do not Result in GHS Classification:

May form combustible dust concentrations in air.

To avoid risk to human health and the environment, follow the instructions for use.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Clonostachys rosea strain 88-710	n/a	1 x 10 ⁸ CFU/ml

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4: FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling A&L Biological, a poison control centre or doctor, or going for treatment. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Eye Contact: Flush eyes with clean water, holding eyelids apart for a minimum of 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eyes. Obtain medical attention immediately if irritation persists.

Skin Contact: Immediately remove contaminated clothing and wash skin, hair and fingernails thoroughly with soap and water.

Inhalation: Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.

Ingestion: Have person sip a glass of water if able to do so. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless directed by a physician or a poison control centre. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer water.

Most Important Symptoms/Effects, Acute and Delayed:

Micro-organisms may have the potential to provoke sensitizing reactions.

May cause an allergic skin reaction.

Overexposure by inhalation may cause sensitization and an allergic response in sensitive individuals.

Indication of Immediate Medical Attention and Special Treatment:

There is no specific antidote.

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use water, foam, carbon dioxide, dry powder, or water fog or mist. Cool closed containers exposed to fire with water spray. Do not use a solid water stream as it may scatter and spread the fire.

Specific Hazards Arising from the Product: Responders should take into consideration the biohazard risk associated with responding to a fire in the area where the material may be stored or handled.

Special Protective Equipment and Precautions for Fire-Fighters: Wear full protective clothing and self-contained breathing apparatus.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Control the spill at its source. Clean up spills immediately, observing precautions outlined in Sections 7 and 8. Use engineering controls and personal protective equipment as detailed in Section 8 and/or the product label.

Environmental Precautions: Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water.

Methods and Materials for Containment and Cleaning Up: Pump or scoop large amounts of liquid into a disposable container. Adsorb remaining liquid or smaller spills with paper towels or other adsorbent product and place in a container for disposal. For surface decontamination, gently cover spill with paper towel and apply 1% sodium hypochlorite, starting at the perimeter and working inwards toward the center. Allow sufficient contact time before cleanup (30 min).

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: KEEP OUT OF REACH OF CHILDREN. Wear protective clothing and equipment as described in Section 8 and/or the product label. Handle in accordance with good industrial hygiene and safety practices. Keep containers closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities: Store in original container in a well-ventilated, cool, dry, secure area. Refer to the product label for specific storage recommendations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:

No exposure limits for this material have been established.

Exposure Controls:

Personal Protective Equipment: For normal use and handling conditions, please refer to the product label. In all other cases, the following recommendations would apply.

Respiratory Protection: When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand Protection: Chemical resistant nitrile rubber gloves.

Eye Protection: Safety glasses with side shields. Wear face shield if splashing hazard exists.

Skin and Body Protection: Wear long-sleeved shirt and long pants and shoes plus socks.

General Protective Measures: Handle in accordance with good industrial hygiene and safety practices. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm water. Keep and wash PPE separately from other laundry. Keep away from food, drink and animal feeding stuffs.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown powder.

Odour: Grain, pleasant.

Odour Threshold: Not applicable.

pH: Neutral.

Melting Point/Freezing Point: Not applicable.

Initial Boiling Point/Boiling Range: Not applicable.

Flash Point: Not applicable.

Evaporation Rate: Not applicable.

Flammability (solid; gas): Not applicable.

Lower Flammable/Explosive Limit: Not applicable.

Upper Flammable/Explosive Limit: Not applicable.

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Vapour Pressure: Not applicable.
Vapour Density: Not applicable.
Relative Density: 0.4 g/ml.
Solubility: Soluble in water.
Partition Coefficient (n-octanol water): Not available.
Auto-Ignition Temperature: Not applicable.
Decomposition Temperature: Not applicable.
Viscosity: Not applicable.

Other Information: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical Stability: Stable under normal use and storage conditions.
Possibility of Hazardous Reactions: No hazardous reactions with normal handling and storage according to the label directions.
Conditions to Avoid: No decomposition if used as directed.
Incompatible Materials: No substances are known which lead to the formation of hazardous substances or thermal reactions.
Hazardous Decomposition Products: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure Routes:
Eye contact, skin contact, ingestion, inhalation.

Immediate Effects:
Eye: Not available.
Skin: Not available.
Ingestion: Not available.
Inhalation: Not available.

Toxicological Effects:
Acute oral toxicity: Not available.
Acute inhalation toxicity: Not available.
Acute dermal toxicity: Not available.
Skin corrosion/irritation: Not available.
Serious eye damage/eye irritation: Not available.
Respiratory or skin sensitization: Micro-organisms may have the potential to provoke sensitizing reaction. May cause an allergic skin reaction. Overexposure by inhalation may cause sensitization and an allergic response in sensitive individuals.

Specific Target Organ Toxicity (STOT) Single Exposure:
Not classified as a specific target organ toxicant, single exposure.

Specific Target Organ Toxicity (STOT) Repeated Exposure:
Not classified as a specific target organ toxicant, repeated exposure.

Carcinogenicity:
Not classified as a carcinogen.

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Reproductive Toxicity:

Not classified as a reproductive toxicant.

Mutagenicity:

Not classified as a mutagen.

Aspiration Hazard:

Not classified as an aspiration hazard.

Other Toxicity Information:

Misuse can be harmful to health.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Invertebrates:

Not available.

Aquatic Plants:

Not available.

Fish:

Not available.

Persistence & Degradability:

Naturally occurring in the environment.

Bioaccumulative Potential:

Significant bioaccumulation in organisms is not to be expected.

Mobility in Soil:

Not applicable.

Other Adverse Effects:

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

Safe Handling for Disposal:

Dispose of contents/container in accordance with provincial/territorial and local regulations.

Methods of Disposal:

Refer to the product label for specific disposal/recycling information.

Completely empty container into application equipment.

Triple rinse containers.

Do not re-use empty containers.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION 14: TRANSPORT INFORMATION

Land Transport (TDG):

Not classified as a dangerous good under transport regulations.

Sea Transport (IMDG):

Not classified as a dangerous good under transport regulations.

Air Transport (IATA-DGR):

Not classified as a dangerous good under transport regulations.

Special Precautions for User:

Not applicable.

Transport in Bulk (according to MARPOL):

Not applicable.

SECTION 15: REGULATORY INFORMATION

Domestic Substance List (DSL) / Non-Domestic Substance List (NDSL) Inventory Status:

The components of this product are on the DSL Inventory, or are exempt from listing.

Canadian Environmental Protection Act (CEPA) Priorities Substance List:

No component of this product is on the CEPA First Priorities Substance Lists.

Hazardous Products Act Information:

This product has been classified in accordance with the amended Hazardous Products Act and the Hazard Criteria of the Hazardous Products Regulations (HPR), and the SDS contains all the information required by the HPR.

Allergens Contained in the Pest Control Product:

Not applicable.

SECTION 16: OTHER INFORMATION

Revision Date APR 26, 2023):

Supersedes Date Not applicable.

Changes since last revision: Not applicable.

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END OF SAFETY DATA SHEET.