

SAFETY DATA SHEET: *BioRain Ax*

1. IDENTIFICATION

GENERAL USE:	Microbial Inoculant
COMMON NAME:	BioRain Ax
MANUFACTURED FOR:	BioWorks 100 Rawson Rd, Suite 205 Victor, NY 14564
EMERGENCY TELEPHONE NUMBERS:	BioWorks: 800-877-9443 CHEMTREC: 800-424-9300 (for USA and Canada)

2. HAZARDS IDENTIFICATION

CAUTION



Pictogram:

Hazard Statement:

H317 May cause an allergic skin reaction.

Precautionary Statements (Prevention):

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. Wear eye protection/face protection.

Precautionary Statements (Response):

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P321	Specific treatment (see Section 4 of SDS).
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous to special waste collection point.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Product contains the following ingredients:

COMPONENT	CAS No.	% (w/w)	OSHA PEL	ACGIH
<i>Bacillus aryabhattai</i>	N/-D	28.33%-31.66%		
<i>Bacillus circulans</i>	Not Available	28.33%-31.66%		
<i>Bacillus licheniformis</i>	N/-D	28.33%-31.66%		
Industrial Secret 1	Not Applicable	2.0% - 13.0%		
Benzilic alcohol	100-51-6	2.0% - 3.0%		

The specific chemical identities and percentages of composition have been withheld as trade secrets.

4. FIRST-AID MEASURES

Inhalation: Remove victim to fresh air.

Skin: Wash exposed skin with sufficient amount of water to remove material.

Eye: Wash with plenty of water. Consult an ophthalmologist.

Ingestion: Do not induce vomiting. Rinse victim's mouth with plenty of water. See a doctor.

Most important symptoms and effects, both acute and delayed. May cause an allergic skin reaction with itching and acne.

Indication of any immediate medical attention and special treatment needed. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water mist, alcohol resistant foam, carbon dioxide (CO₂), or dry chemical. Do not apply water jets directly.

SPECIAL FIRE-FIGHTING PROCEDURES: Positive pressure self-contained breathing apparatus (SCBA) with full protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

UNUSUAL FIRE and EXPLOSION HAZARDS: Combustion of the chemical or its packaging can form irritating and toxic gases such as monoxide and carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Take all additional action necessary to prevent and remedy the adverse effects of the spill. This product should be prevented from entering bodies of water.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: In case of spill, collect material immediately. Wipe residual material from surfaces with cloth. Do not wash residues into drains or other waterways.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Handle in a well-ventilated area or general local exhaust / ventilation system. Avoid formation of vapors and mists. Avoid contact with incompatible materials. Adopt personal protective measures. Observe the expiration date. Do not reuse the empty package. Do not wash containers in lakes, fountains, rivers and other bodies of water. Do not eat, drink or smoke while handling the product. Wash after handling, especially before meals. After work, remove protective clothing and bathe.

PERSONAL PRECAUTIONS:

6.1.1 For personnel who are not part of the emergency services

Wear protective equipment. Isolate and flag the area. Do not smoke. Avoid contact with the product.

6.1.2 For emergency service personnel

Wear appropriate protective equipment. Keep unauthorized persons away.

ENVIRONMENTAL PRECAUTIONS: Isolate the area. Prevent the spread of spilled material. Prevent spilled material from reaching waterways and sewers. Leaks should be reported to the manufacturer and / or environmental agencies.

CONTAINMENT/CLEAN-UP MEASURES: Isolate spill or leak area to a radius of 50 meters at least in all directions. Use natural dikes or barriers to contain product leakage. Absorb with inert absorbent material (sand, diatomite, vermiculite). If it is possible to seal the leak by using bungs, sealing tape or by inverting the

hole / tear / dent up. Collect all material in suitable, properly labeled containers for later treatment and disposal. Waste must be disposed of in accordance with Local, State or Federal environmental legislation. For transshipment check an appropriate location and perform the safety procedures described above.

PESTICIDE STORAGE: Store in covered, dry and well-ventilated area. Protect packaging from physical damage. Keep container tightly closed when not in use. Keep away from incompatible materials, odorous or toxic substances.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS: None.

PERSONAL PROTECTION:

RESPIRATORY: In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 26 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face: Wear safety goggles

Hands: Wear protective gloves

Skin/Body: Where extensive dermal exposure may be expected, either a chemical suit or a chemical apron will be needed.

General Industrial Hygiene Considerations: Provide local exhaust or general ventilation in the work area to minimize vapor concentration. Eye wash supplies and emergency safety showers should be available in the immediate vicinity of any potential exposure.

Environmental Exposure Controls: Follow best practice for site management and disposal of waste. Avoid release to the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid, beige, homogeneous and opaque
ODOR:	Characteristic odor
ODOR THRESHOLD:	Not determined
pH:	8.35
MELTING POINT:	Not available
BOILING POINT:	Not available
FLASH POINT:	Not available
EVAPORATION RATE:	Not available
FLAMMABILITY/EXPLOSIVE LIMITS:	Not available
VAPOR PRESSURE at 50°C:	Not available
VAPOR DENSITY:	Not available
BULK DENSITY at 20°C (68 °F):	1.0083 g/cm ³
SOLUBILITY in water:	Water immiscible
PARTITION COEFFICIENT:	Not determined
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not determined
VISCOSITY at 20°C:	Not available

10. STABILITY AND REACTIVITY

Reactivity: Not available

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions: Not available.

Conditions to avoid: Exposure to excessive heat.

Incompatible Materials: Not available

Hazardous Decomposition Products: No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not available

Ingestion: None identified

Inhalation: Not available

Skin Irritation: Not available

Eye Irritation: Not available

Respiratory or skin sensitization: May cause an allergic skin reaction with itching and acne.

CHRONIC TOXICITY:

Carcinogenicity: Not available

Reproductive toxicity: Not available

Teratogenic effects: Not available

Mutagenic effect: Not available

12. ECOLOGICAL INFORMATION

This product is not classified as dangerous for environment

Mobility in soil: Not available.

Persistence and degradability: Due to lack of data, the product is expected to be persistent and not rapidly degradable.

Toxicity: Not available

Other adverse effects: Not available

13. DISPOSAL CONSIDERATIONS

Product Waste: Treatment and disposal procedures should be evaluated individually for each product. Existing federal, state and local laws should be consulted.

Packaging Waste: Do not reuse empty packaging. These may contain product debris and should be kept closed and shipped for proper disposal as established for the product.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME:	Not regulated
Land: ADR / RID Class:	Not Regulated
US DOT:	Not Regulated
Water: IMDG Class:	Non-Hazardous. Not Regulated
Air: IATA - DGR Class:	Non-Hazardous. Not Regulated

15. REGULATORY INFORMATION

29 CFR 1910.1200, Hazard Communication
29 CFR 1910.272, Grain Handling Facilities
Regulation 1272:2008: GHS, United Nations, 3th Revised Edition, 2009
UN Recommendations on the TRANSPORT OF DANGEROUS GOODS. Model Regulations, 19th Edition, 2009.
Globally Harmonized System of Classification of Chemicals (GHS), 5th Edition, 2013

16. OTHER INFORMATION

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