

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Instruct MoB
Product Code: 6001
Manufacturer information:
Company Name: Microbial Biological Fertilizer International, LLC
Address: 4006 South 40th Street, St. Joseph,
Missouri, 64503
Telephone: +1 (816) 236 4772
Email: steven@mbfi.bio
Emergency Phone Number: +1 (816) 752 0306

2. Hazards Identification

Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Label elements

Pictogram:



Hazard signal word:

Warning

Hazard statements:

H315: Causes skin irritation
H319: Causes serious eye irritation
H360: May damage fertility or the unborn child.

Precautionary statements:

P264 + P265: Wash hands thoroughly after handling. Do not touch eyes.
P280: Wear protective gloves, protective clothing, eye protection and face protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P362+P364: Take off contaminated clothing. And wash it before reuse.

3. Composition / Information on Ingredients

Substances: N/A

Mixture:

Name	Cas No.	Weight %	Classification
Zinc Borate	10361-94-1	4,13	
Boric Acid	10043-35-3	28,28	

4. First Aid Measures

Inhalation: Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Call a poison control center or doctor for treatment advice.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Call a poison control center or doctor for treatment advice.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion: Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause redness and tearing of eyes.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media:

Dry chemical, CO₂, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog, or regular foam.

Unsuitable extinguishing media:

None.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products:

None.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

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. Cool containers/tanks with water spray.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required.

For emergency responders: Use personal protection recommended in Section 8. Ventilate the area.

Environmental precautions

Environmental precautions: Prevent entry into waterways, sewers, basements, or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Prevent spillage or further leakage if it is safe to do so. Contain spillage with sandbags or by other means. Absorb with earth, sand, or absorbent material. Dig up heavily contaminated soil. Flush with water to remove any residues. Keep product and wash water out of drains, sewers, ditches, and waterways.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling: Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Do not breathe fumes / mist / vapors / spray.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep the container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from food, drink, and animal feed. Keep cool between 40-80°F (4-27°C). Protect from sunlight.

Packaging materials: Do not reuse the container.

Incompatible materials: Strong oxidizing agents.

8. Exposure Controls / Personal Protection

Control parameters

The usual precautionary measures for handling chemicals should be observed. Provide adequate ventilation.

Appropriate engineering controls

Engineering controls ensure adequate ventilation, especially in confined areas. Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection: Tight sealing safety goggles.

Skin and body protection: Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or boots.

Respiratory protection: Ensure adequate ventilation, especially in confined areas.

General Hygiene considerations: When using do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical state:	Liquid
Colour:	Blue
Odour:	No Odour
pH:	10 (at 20°C)
Specific gravity	1.31 g/ml (at 20°C)
Dry matter:	Not applicable
Density:	Not applicable
Solubility:	Soluble
Partition coefficient:	Not applicable
Vapour pressure:	Not applicable
Boiling point:	Not applicable
Melting point:	Not applicable
Flash point:	Not flammable
Explosive properties:	Not explosive
Auto-ignition temp:	Not available

10. Stability and Reactivity

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Very low or high temperatures and direct sunlight.
Incompatible materials	Oxidants and acid may cause degradation.
Hazardous Decomposition Products	None identified.

11. Toxicological Information

LD ₅₀ :	Acute Oral LD ₅₀ (rat): 2374 mg/kg Cat 5 (Calculated) Acute Dermal LD ₅₀ (rat): 37539 mg/kg Cat 5 (Calculated)
LC ₅₀ :	Inhalation LC ₅₀ (rat): 93.3 mg/L (4h) Cat 5 Mist (Calculated)
Acute Eye Irritation (Rabbit):	Causes serious eye irritation.
Acute Dermal Irritation (Rabbit):	May cause skin irritation.
Local effects:	None.
Chronic toxicity:	May damage fertility or the unborn child.

12. Ecological Information

Fish toxicity:	Unknown – avoid contamination into water bodies.
Biodegradability:	The products constituents are biodegradable.
Mobility:	Immobile.
Bioaccumulation:	None.

13. Disposal Considerations

Triple rinse the empty container as follows: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume of fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple-rinsed container and dispose of it via an approved collector or recycler. Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.

14. Transport Information

UN number:	Not applicable
UN Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing Group:	Not applicable

15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for the mixture

Authorizations:	Registered per state.
Restrictions on use:	Not relevant.

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this SDS

16. Other Information

The purpose of the above information is to describe the product only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

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