

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Bio-shield XT
Product Code: -
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

Important hazards: None.

3. Composition/Information on Ingredients

Product description: A bio protector for extending the viability of bacteria.
Dangerous ingredients: None.

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 allergic skin reactions. 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

None.

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/gas/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 in properly labeled containers. Keep cool between 40-80°F (4-27°C). Protect from sunlight.

Packaging materials: Do not reuse the container.

Incompatible materials: Strong oxidizing agents and products that degrade organic material.

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
Color:	Red
Odor:	Sugary
pH:	Not applicable
Moisture %:	N/A
Density:	1.26 g/ml
Solubility/Miscibility in water:	Highly Soluble
Solubility in organic solvents:	Not applicable
Partition coefficient:	Not applicable
Vapour pressure:	Not applicable
Boiling point:	Not applicable
Melting point:	Not applicable
Flash point:	Not flammable
Oxidizing properties:	None
Explosive properties:	Not explosive
Auto-ignition temp:	Not applicable

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	High temperatures and UV light may reduce the longevity of the product.
Incompatible materials	Strong acids and products that degrade organic material.
Hazardous decomposition products	Carbon monoxide and/or carbon dioxide.

11. Toxicological Information

LD₅₀:	No data
	No data
Local effects	No data
Skin irritant (rabbit):	No data
Eye irritant (rabbit):	No data
Chronic toxicity:	No data

12. Ecological Information

Fish toxicity:	Not Available.
Biodegradability:	Biodegradable.
Mobility:	Does not leach into groundwater.

13. Disposal Considerations

Shake all the formulation out of the bag into the spray or mixing tank. Rinse the bag with fresh water discarding the rinsate into the tank. Repeat the rinsing twice. Do not bury, burn, or donate the bag to any other parties that may use it as a container for foodstuffs. These bags cannot be recycled and must be incinerated by a licensed incineration facility.

14. Transport Information

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

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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