

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Incite LIF Corn

Product Code: 4002

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: 5 x 10⁸ cfu of *Bacillus methylotrophicus* per milliliter of product.

Formulated in a liquid medium. This organism naturally occurs in the

environment and is non-GMO.

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.

Product name: Incite LIF Corn (INCLC – V001)

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 / 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:Broad-spectrum antibiotics and strong oxidizing agents.

Product name: Incite LIF Corn MSDS USA (INCLC – V001) Page **2** of **4**

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.

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

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: Brownish - Creamy Odor: Fermented odor

pH: 6-7.5 Moisture %: N/A **Density:** 1 g/ml Solubility: Not soluble **Solubility in organic solvents:** Not soluble **Partition coefficient:** Not applicable Not applicable Vapor pressure: **Boiling point:** Not applicable Melting point: Not applicable Flash point: Not flammable **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 bacterial viability.

Incompatible materials Strong oxidizing agents and broad-spectrum antibiotics.

Hazardous decomposition products Carbon oxides.

11. Toxicological Information

Acute Oral LD₅₀ (rat): Not classified LD₅₀:

Acute Dermal LD₅₀ (rat): Not classified

Inhalation LC₅₀ (rat): Not classified LC₅₀:

> Skin Sensitization: Not a sensitizer Acute Eye irritation: non-irritating

Local effects: May cause allergic reactions in sensitive persons.

Skin irritant (rabbit): Does not cause skin irritation. Eye irritant (rabbit): Not Classified as an eye irritant.

Product name: Incite LIF Corn

MSDS USA (INCLC - V001) Page 3 of 4 **Chronic toxicity:** Non-carcinogenic, non-teratogenic, non-mutagenic or

reproductive, not harmful in laboratory animals.

12. Ecological Information

Fish toxicity: Unknown – avoid contamination into water bodies.

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:
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.

Contact Person: Mr. Steven Etherington +1 (816) 236-4772

Product name: Incite LIF Corn (INCLC – V001)



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: MicroPhos LIF

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. Hazard Identification

Important hazards: None.

3. Composition / Information on Ingredients

Product description: 1 x 10⁸ cfu of *Pseudomonas fluorescens* per millilitre of product.

Formulated in a liquid medium. This organism naturally occurs in the

environment and is non-GMO.

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 reaction. May cause redness and tearing of eyes.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

Product name: MicroPhos LIF

(MPL - V001)

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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 cool between 40-80°F (4-27°C). Protect from

sunlight.

Packaging materials: Do not reuse the container.

Incompatible materials:Broad-spectrum antibiotics and strong oxidizing agents.

Product name: MicroPhos LIF MSDS USA (MPL – V001) Page **2** of **4**

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: **Brownish** Odor: **Odorless** pH: 6.8-8.0 Moisture %: N/A **Density:** 1 g/ml Solubility: Not soluble Solubility in organic solvents: Not soluble **Partition coefficient:** Not applicable Vapor pressure: Not applicable **Boiling point:** Not applicable Melting point: Not applicable Flash point: Not flammable **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 reactionsNone under normal processing.

Conditions to avoid High temperatures and UV light may reduce bacterial viability.

Incompatible materials Strong oxidizing agents and broad-spectrum antibiotics.

Hazardous decomposition products Carbon oxides.

11. Toxicological Information

LD₅₀: Acute Oral LD50 (rat): >5000 mg/kg.

Acute Dermal LD50 (rat): >2000 mg/kg.

Inhalation LC50 (rat): n/a.

Skin Sensitization: Not a sensitizer. Acute Eye irritation: non-irritating

Local effects May cause allergic reaction in sensitive persons.

Skin irritant (rabbit):Does not cause skin irritation.

Product name: MicroPhos LIF

(MPL - V001)

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Eye irritant (rabbit):Not Classified as an eye irritant.

Chronic toxicity: Non-carcinogenic, non-teratogenic, non-mutagenic or

reproductive, not harmful in laboratory animals.

12. Ecological Information

Fish toxicity: Unknown – avoid contamination into water bodies.

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:
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.

Contact Person: Mr. Steven Etherington +1 (816) 236-4772

Product name: MicroPhos LIF

(MPL – V001)



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name:Bio-Finalist Technical HC

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 biological fertilizer supplement in-furrow treatment to improve

growth and stress tolerance.

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 centre immediately. Call a poison control centre 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 centre 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 centre or doctor for treatment

advice.

Ingestion: Call a physician or poison control centre 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 reaction. 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 the release of irritating and toxic gases and vapors.

Hazardous combustion products:

Carbon monoxide and/or carbon dioxide, oxides of sulfur, ammonia and oxides of nitrogen.

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/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 labelled containers. Keep cool. 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 Color: Brown

Odor: Faint pine smell

pH: 6.5

Dry matter:Not applicable **Density:**8.4 lbs/gal

Solubility: Dispersible in water
Solubility in organic solvents: Not applicable
Partition coefficient: Not applicable
Vapour pressure: Not applicable
Boiling point: Not applicable
Flash point: Not flammable
Explosive properties: Not explosive

10. Stability and Reactivity

Reactivity No data available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactionsNone under normal processing.

Conditions to avoidVery low or high temperatures and direct sunlight.

Incompatible materialsNone identified.

11. Toxicological Information

LD₅₀: Acute Oral LD₅₀ (rat): 28060 mg/kg (Cat 5)

Acute Dermal LD₅₀ (rat): >6500 mg/kg (Cat 5)

Inhalation LC₅₀ (rat): 4166 mg/L (Cat 5)

Acute Eye Irritation (Rabbit):

Acute Dermal Irritation (Rabbit):

Not classified as an eye irritant.

Not classified as a skin irritant.

Not considered as positive.

Local effects: None.

Chronic toxicity: Non-carcinogenic, non-teratogenic, non-mutagenic or

reproductive, not harmful in laboratory animals.

LC50:

12. Ecological Information

Fish toxicity: No known toxicity. **Bee toxicity:** No known toxicity.

Biodegradability:The product constituents are biodegradable.

Mobility:Immobile.Bio-Accumulation: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:
UN Proper shipping name:
Not regulated
Not regulated
Packing Group:
Not regulated
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.

Contact Person: Mr. Steven Etherington +1 (816) 236-4772

Product name: Bio-Finalist Technical HC (BFTHC – V001)