

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Product Name:** Induct HC Soybean  
**Product Code:** 5003, 5004  
**Manufacturer information:**  
**Company Name:** Microbial Biological Fertilizer International, LLC  
**Address:** 4006 South 40<sup>th</sup> Street, St. Joseph,  
Missouri, 64503  
**Telephone:** +1 (816) 236 4772  
**Email:** [steven@mbfi.bio](mailto:steven@mbfi.bio)  
**Emergency Phone Number:** +1 (816) 752 0306

### 2. Hazards Identification

**Classification of the mixture:** Not classifiable according to GHS regulations.  
**Label elements:** None  
**Precautionary statements:** P102: Keep out of reach of children.

### 3. Composition / Information on Ingredients

**Substances:** N/A

**Mixture:**

| Name                            | CAS No.        | Weight (%) |
|---------------------------------|----------------|------------|
| <i>Bradyrhizobium japonicum</i> | Not Applicable | 1%         |

**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, CO<sub>2</sub>, 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:**

Broad-spectrum anti-biotics and strong oxidizing agents.

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## 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

|  |   |
|--|---|
| <b>Eye/face protection:</b>            | Tight sealing safety goggles.   |
| <b>Skin and body protection:</b>       | Wear suitable protective clothing. Wear protective butyl rubber gloves.<br>Protective shoes or boots.   |
| <b>Respiratory protection:</b>         | Ensure adequate ventilation, especially in confined areas.  |
| <b>General Hygiene Considerations:</b> | 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.<br>Wash contaminated clothing before reuse. |

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## 9. Physical and Chemical Properties

|   |                                   |
|---|-----------------------------------|
| <b>Physical state:</b>                  | Liquid                            |
| <b>Color:</b>                           | Brownish – creamy                 |
| <b>Odor:</b>                            | Fermented odor                    |
| <b>pH:</b>                              | 6-7.5 (1% W/V in distilled water) |
| <b>Moisture %:</b>                      | N/A                               |
| <b>Density:</b>                         | 1.0 g/ml                          |
| <b>Solubility/Miscibility in water:</b> | Suspendable                       |
| <b>Solubility in organic solvents:</b>  | Not applicable                    |
| <b>Partition coefficient:</b>           | Not applicable                    |
| <b>Vapour pressure:</b>                 | Not applicable                    |
| <b>Boiling point:</b>                   | Not applicable                    |
| <b>Melting point:</b>                   | Not applicable                    |
| <b>Flash point:</b>                     | Not flammable                     |
| <b>Oxidizing properties:</b>            | None                              |
| <b>Explosive properties:</b>            | Not explosive                     |
| <b>Auto-ignition temp:</b>              | Not applicable                    |

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## 10. Stability and Reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | No data available.   |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                     |
| <b>Possibility of hazardous reactions</b> | None under normal processing.                                    |
| <b>Conditions to avoid</b>                | High temperatures and UV light may reduce bacterial viability.   |
| <b>Incompatible materials</b>             | Broad-spectrum antimicrobial agents and strong oxidizing agents. |
| <b>Hazardous decomposition products</b>   | Carbon monoxide and/or carbon dioxide.                           |

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## 11. Toxicological Information

|                                |  |
|--------------------------------|--|
| <b>LD<sub>50</sub>:</b>        | Oral (rat): Not classified<br>Dermal (rat): Not classified   |
| <b>Local effects</b>           | May cause allergic reactions in sensitive persons.   |
| <b>Skin irritant (rabbit):</b> | Does not cause skin irritation.  |
| <b>Eye irritant (rabbit):</b>  | Not classified as an eye irritant.   |
| <b>Chronic toxicity:</b>       | Non-carcinogenic, non-teratogenic, non-mutagenic or reproductive, not harmful in laboratory animals. |

## 12. Ecological Information

|                          |                                  |
|--------------------------|----------------------------------|
| <b>Fish toxicity:</b>    | No data.                         |
| <b>Biodegradability:</b> | Biodegradable.                   |
| <b>Mobility:</b>         | Does not leach into groundwater. |

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## 13. Disposal Considerations

Shake all the formulation out of the bag into the spray or mixing tank. Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off 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.

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## 14. Transport Information

|                                    |                |
|------------------------------------|----------------|
| <b>UN number:</b>                  | Not classified |
| <b>UN Proper shipping name:</b>    | Not classified |
| <b>Transport hazard class(es):</b> | Not classified |
| <b>Packing Group:</b>              | Not applicable |

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## 15. Regulatory Information

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

|                             |                       |
|-----------------------------|-----------------------|
| <b>Authorizations:</b>      | Registered per state. |
| <b>Restrictions on use:</b> | Not relevant          |

### Chemical Safety Assessment

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

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## 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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