



SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Induct EXO Peanut
Product Code: INDEP
Manufacturer information:
Company Name: Microbial Biological Fertilizer International, LLC
Address: St. Joe Missouri 4006 South, 40th Street, St. Joseph, Missouri, 64503
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Emergency Phone Number: +1 (816) 752 0306

2. Composition / Information on Ingredients

Product description: 4.5×10^9 cfu/ml nitrogen fixing *Bradyrhizobium* sp. (Vigna) in a sterile liquid broth carrier.
Dangerous ingredients: None.

3. Hazards Identification

Important hazards: None.

4. First Aid Measures

General Advice: Keep out of the reach of children and store in original containers only.
Inhalation: Remove patient to fresh air. See a doctor if an allergic reaction is noticed.
Skin Contact: Wash thoroughly with soap and water. See a doctor if an allergic reaction is noticed.
Eye Contact: Flush with water. See a doctor if an allergic reaction is noticed.
Ingestion: Drink water. See a doctor if an allergic reaction is noticed.

5. Fire Fighting Measures

Type of material: Non-combustible liquid.
Extinguishing Media: N/A.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Environmental precautions: Avoid infiltration of large volumes into drains, surface water, groundwater and soil.
Personal precautions: Safety goggles and protective gloves are recommended.
Destruction and clean 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 antibiotics and 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

Eyeface 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 – creamy

Odor:

Normal

pH:

6-7.5

Moisture %:

N/A

Density:

1.0 g/ml

Solubility/Miscibility in water:

Miscible in water

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 bacterial viability.
Incompatible materials	Strong oxidizing agents and broad-spectrum antibiotics.
Hazardous decomposition products	Carbon monoxide and/or carbon dioxide.

11. Toxicological Information

LD₅₀:	Oral (rat): Not classified Dermal (rat): Not classified
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.
Chronic toxicity:	Non-carcinogenic, non-teratogenic, non-mutagenic or reproductive, not harmful in laboratory animals.

12. Ecological Information

Fish toxicity:	No data.
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. 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.

14. Transport Information

UN number:	N/A
UN Proper shipping name:	N/A
Transport hazard class(es):	N/A
Packing Group:	N/A

15. Regulatory Information

Registered per state in the USA – A highly concentrated bacterial legume inoculant for nitrogen fixation on peanuts (*Arachis hypogaea*). Specific states will be named on final registrations.

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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