



Macrobacter

Plutarco Elías Calles número 267  
Col. Benito Juárez. C.P. 85 060  
Ciudad Obregón, Cajeme, Sonora, México.

# SAFETY DATA SHEET MACROBACTER INOCULANT

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(Replaces all previous editions)

## 1. Identification of the substance and of the company

### Identification of the substance or preparation

Brand: MACROBACTER  
Product: MACROBACTER  
Product Description: INOCULANTE.

### Company Identification

Company: Macrobacter S.A. de C.V.  
Plutarco Elías Calles 267  
ZIP CODE 85060  
Col. Benito Juárez.  
Cd. Obregón, Cajeme, Sonora, Mexico  
Tel: 644 430 7032

Emergency Phone Numbers: Tel: 644 430 7032

Other indications: In case of ingestion, drink a glass of water. If in contact with eyes, rinse with plenty of water.

## 2. Composition / Information on Ingredients

### Characteristics

Formulation type: Soluble Concentrate  
Use: Inoculant made from a bacterial complex for use in agricultural soils.  
Fixes nitrogen and increases nutrient absorption. 100% organic.  
Active ingredient(s): Azotobacter Vinelandii (1.65x10<sup>6</sup> CFU/mL).  
Bacillus Megaterium (1.4x10<sup>6</sup> CFU/mL).  
Component(s) risks: N/A



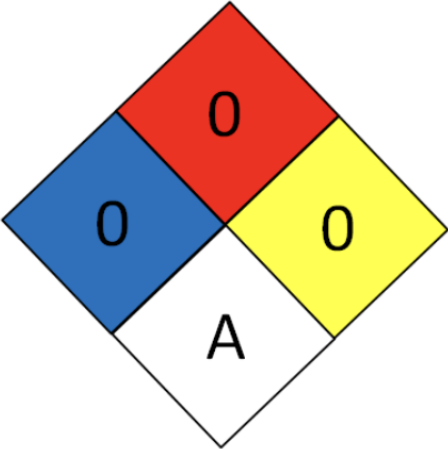
# MacroBacter

## 3. Hazard Identification

Classification of product hazards:

Health Risks: The product is non-toxic. No cases of intoxication in humans are known. Avoid contact with skin. Avoid contact with eyes. Do not ingest.

Environmental risks in case of accident (spills/leaks): N/A. The product is non-toxic to fish. Do not dispose of product residues in lakes, rivers, streams, oceans, or public water supplies.

	<p>Blue Diamond (left) represents the health risk. The number represents the degree of hazard, ranging from 0 when the material is harmless to 4 when it is highly hazardous to health.</p> <p>Red Diamond (top) represents the flammability risk. Ranges from 0 when it is non-flammable to 4 when it is highly flammable.</p> <p>Yellow Diamond (right) represents reactivity. Ranges from 0 when the substance is stable to 4 when it can almost spontaneously detonate.</p> <p>White Diamond (bottom) represents special precautions. W (with a crossed line) is a substance that is reactive with water; ACID is an acidic substance; ALK is an alkaline substance; OX is an oxidizing substance; COR is a corrosive substance; or it may contain a letter to identify the personal protective equipment according to NOM-018-STPS-2000. A = Safety Glasses.</p>
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ATTENTION



H315 + H320 - Causes skin and eye irritation.



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## 4. First Aid Measures

### First Aid Measures

General: In case of contact with skin, wash with water and soap. If there has been contact with eyes, rinse with clean water immediately for at least 15 minutes. In case of ingestion, drink plenty of water and consult a doctor as soon as possible.

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## 5. Firefighting Measures

Suitable extinguishing media: Dry chemical powder, foam, carbon dioxide, or water mist extinguishers (do not use direct water jets).

Special hazards arising from the substance: None known.

### Firefighting

Firefighting protective equipment: Use a self-contained breathing apparatus with an oxygen supply to protect against gases. Wear protective clothing and safety glasses.

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## 6. Accidental Release Measures

Environmental protection measures after accidents: Collect the product in clean containers. Wash the affected area with plenty of water. The spilled product can be reused as long as it has not been collected with solid material that could affect drainage lines.

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## 7. Handling and Storage

### Handling Information

General: Do not transport or store this product with food, medicines, clothing, domestic utensils, or animal feed. During cleaning operations, use personal protective equipment such as gloves and protective glasses.

### Storage Information

Special storage instructions: Store the product in the original labeled and sealed containers. Store in a safe, cool, and dry place, away from fire. Keep out of reach of children, unauthorized persons, and animals.



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## 8. Exposure Control / Personal Protection

Follow the instructions given on the label and in this safety sheet.

Personal Protective Equipment

In general: Change clothes daily.

Respiratory protection: In case of higher exposure, use a face mask.

Eye protection: Glasses.

Hand protection: Plastic or latex-resistant gloves.

Body protection: Work clothes made of cotton or synthetic fabric. Work boots or shoes.

Precautionary measures after work: Wash completely (shower, bath, wash hair). Completely wash all exposed body parts.

Change clothes. Completely clean protective equipment. Clean all equipment thoroughly with soap and water.



Safety Glasses



Safety Boots



Latex or Plastic Gloves



Work Clothes



Face Mask



Shower after contact with the product

## 9. Physical-Chemical Properties

Appearance:	Soluble Concentrate.
Color:	Dark brown.
Physical state:	Liquid.
Flashpoint:	Not flammable.
Boiling point:	100°C / 212°F
Freezing point:	-10°C / 14°F
Oxidizing properties:	Non-oxidizing.
Explosive properties:	Not explosive.
pH value:	3.5 - 6.0
Solubility/Miscibility in water:	100% soluble in water.



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## 10. Stability and Reactivity

### Stability

Evaluation: The product remains stable for at least 2 years under normal storage conditions.

Corrosiveness: Non-corrosive.

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## 11. Toxicological Information

Excessive exposure may affect human health in the following ways:

Skin Contact: Non-irritant.

Eye Contact: Irritant with excessive exposure.

Sensitization: Non-sensitizing.

Carcinogenic Information: Non-carcinogenic.

Ingestion: Non-toxic if ingested.

Inhalation: May cause irritation in the nose and throat.

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## 12. Ecological Information

Acute Toxicity in Fish: If the product is handled and used according to the instructions on the label, it is not expected to be toxic or dangerous to fish.

Algae Growth Inhibition: The product is not harmful or toxic to algae as long as it is used according to the instructions on the label.

Acute Toxicity in Aquatic Invertebrates: If the product is handled and used according to the instructions on the label, it is not expected to be toxic or dangerous to aquatic invertebrates.

Toxicity in Soil Organisms: The product is not toxic or dangerous to soil organisms as long as it is handled and used according to the instructions on the label.

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## 13. Disposal Considerations

Local regulations must be taken into account, and disposal should be done in accordance with the competent authority.

Product Disposal: N/A

Container Disposal: Perform Triple Rinse and puncture the containers. Eliminate containers through an approved waste collection center or incinerator. Check the possibility of recycling the containers.



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## 14. Transport Information

Special Information: Use unbreakable plastic containers, ensure they cannot fall, and label them according to regulations.

Cargo Name: Inoculant, soil conditioner (bacterial complex).

Hazard Class: Not regulated.

Packaging Group: Not regulated.

Labeling Declarations: Not regulated.

IMDG Classification: Not regulated

TDG Classification: Not regulated.

ICAO/IATA Classification: Not regulated.

### U.S. DEPARTMENT OF TRANSPORTATION:

Shipping Name: Soil conditioner (bacterial complex).

Hazard Class: Not regulated.

Identification Number: Not regulated.

Packaging Group: Not regulated.

Labeling Declarations: Not regulated.

Marine Pollutant: No.

IMDG Classification: Not regulated.

TDG Classification: Not regulated.

ICAO/IATA Classification: Not regulated.

RID/ADR Classification: Not regulated.

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## 15. Regulatory Information

Please follow local regulations.

### UN GHS / INTERNATIONAL REGULATIONS:

EU DSD (Dangerous Substances Directive 2001/59/EC): Not regulated.

EU DPD (Dangerous Preparations Directive 2001/60/EC): Not regulated.

EINECS (European Inventory of Existing Commercial Chemical Substances): Not regulated.

DSL/NDSL (Canadian Domestic / Non-Domestic Substances List): Not regulated.

IDL (Ingredient Disclosure List): Not regulated.

CPR (Canadian Controlled Products Regulations): Not regulated.

### U.S. REGULATIONS:

TSCA (Toxic Substances Control Act): Not regulated.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): Not regulated.

SARA TITLE III (Emergency Planning and Community Right-to-Know): Not regulated.

311/312 Hazard Categories: Not regulated.

313 REPORTABLE INGREDIENTS: Not regulated.

CA PROP 65 (Safe Drinking Water and Toxic Enforcement Act of 1986): Not regulated.



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## 16. Other Information

Reentry time to treated areas: Immediately after application.

(0) Safety interval: Days that must pass between the last application and harvest: No Limit = N/L

The information presented in this document is based on our current state of knowledge and is intended to describe our products from the safety requirements perspective. Therefore, it should not be understood as guaranteed specific properties.