



## MATERIAL SAFETY DATA SHEET

*May be used to comply with OSHA Hazard Communication Standard, 29 CFR 1910.1200.*

**IDENTITY (As Used on Label):**  
Encapsulated Azospirillum Bacteria

**DESCRIPTION:** POWDERED  
CELLULOSE AZOSPIRILLUM  
BACTERIA

### SECTION I

**Manufacturer's Name:**  
Reforestation Technologies International

**Emergency Tel. No.** 831-  
424-1494

**Address:**  
1341 Dayton St, Unit G  
Salinas, CA 93901 USA

**Tel. No. For Information** 800-  
784-4769

**Date Prepared:** June 9, 2008

**Supersedes:** N/A

### SECTION II -- HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components (Specific Chemical)</u> <u>Identity; Common Names(s)</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits Recommended</u>	<u>% (Optional)</u>
Total Dust	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		N/A
Respirable	5 mg/m <sup>3</sup>			

### SECTION III -- PHYSICAL/CHEMICAL CHARACTERISTICS

<b>Boiling Point</b> N/A	<b>Density (g/lee)</b> 1.27-1.61
<b>Vapor Pressure (mm Hg.)</b> N/A	<b>Melting Point</b> N/A
<b>Vapor Density (AIR = 1)</b> N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b> N/A

**Solubility in Water:** soluble in water.

**Appearance and Odor:** Color: White Odor: None

### SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b> N/A	<b>Flammable Limits</b> N/A	<b>LEL</b> N/A	<b>UEL</b> N/A
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Material will burn if involved in a fire. Like most organic powders, under severe dusting conditions, this material may form explosive mixtures in air.

**Extinguishing Media**

Water, Carbon-dioxide, dry chemical or foam.

**Special Fire Fighting Procedures**

In the event of a fire, wear full protective clothing and NIOSH approved Self-Contained Breathing Apparatus.

**Unusual Fire and Explosion**

**Hazards** None

SECTION V -- REACTIVITY DATA

	<b>Stable</b>	<b>Unstable</b>
<b>Stability</b>	<b>Y</b>	
<b>Conditions to Avoid</b>	None	
<b>Incompatibility (Materials to Avoid):</b>	None	
<b>Hazardous Decomposition or Byproducts:</b>	None Known	
<b>Hazardous Polymerization:</b>		<b>Conditions to</b>
<b>Avoid:</b> None Will Occur Will Not Occur		
	X	

SECTION VI -- HEALTH HAZARD INFORMATION

**Route(s) of Entry:**      **Inhalation?** Yes      **Skin?** Yes      **Ingestion?** Yes

**Health Hazards (Acute and Chronic)**

Exposure to high concentrations of dust may result in upper respiratory tract (nose and throat) irritation. An allergic reaction may occur in some persons due to inhalation of or contact with these products. PEL (OSHA Permissible Exposure Limit): For nuisance dust. 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for respirable dust.

<b>Carcinogenicity:</b>	<b>NTP?</b>	<b>IARC Monographs?</b>	<b>OSHA Regulated?</b>
None	None	None	No

**Signs and Symptoms of**

**Exposure** Refer to health hazards listed above.

**Medical Conditions**

**Generally Aggravated by Exposure**

None known under proper usage conditions.

**Emergency and First Aid Procedures**

Eyes/Skin: Flush with water. Inhalation: If breathing difficulty occurs, remove to fresh air and call physician.

**SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps to Be Taken in Case Material Is Released or Spilled** May be cleaned up with broom and shovel.

**Waste Disposal Method**

Dispose of in accordance with local, state and federal regulations.

**Precautions to Be Taken in Handling and Storing**

Product should be stored on pallets without contact to walls, ceiling or floor. Storage areas should be well ventilated and free of strong and objectionable odors. Good warehouse and production handling practices should be followed to limit the amount of dust. Avoid sources of ignition. If product is pneumatically conveyed or pressurized in high concentration, devices to control static electricity are recommended.

**Other Precautions**

Avoid open flames and spark sources.

**SECTION VIII -- CONTROL MEASURES**

**Respiratory Protection** (Specify Type): If dust levels exceed 15 mg/m<sup>3</sup>, a NIOSH approved dust mask is recommended.

**Ventilation**

Adequate to handle dust indigenous to operations.

**Local Exhaust**

If dusting occurs

**Special**

N/A

**Mechanical (General)**

Not normally required

**Other**

N/A

**Protective Gloves**

Not normally required

**Eye Protection**

Recommended. Wearing contact lenses is not recommended in a dusty environment.

**Other Protective Clothing or Equipment** None normally required

**Work/Hygienic Practices**

Use standard hygiene practices.

**HMIS Rating:** Health 0 Flammability 1 Reactivity 0

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