

# MATERIAL SAFETY DATA SHEET

Total Solutions  
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GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

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## I - Product Identification

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### Bio-Paks

PRODUCT CODE: 0502

CHEMICAL FORMULATION: Dried enzyme/bacterial culture

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

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## II - Hazardous Ingredients

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Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u> <u>%</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
				<u>302</u>	<u>355</u>	<u>372</u>	

Contains no hazardous components as defined in 29 CFR 1910.1200

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

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## III - Physical Data

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BOILING POINT (°F): N/A

SPECIFIC GRAVITY (WATER = 1): N/A

VAPOR PRESSURE (mm Hg): N/A

VOC CONTENT (% by weight): <1.0

VAPOR DENSITY (AIR = 1): N/A

EVAPORATION RATE (WATER = 1): N/A

SOLUBILITY IN WATER: Soluble

pH: N/A

APPEARANCE AND ODOR: Tan to brown powder; yeast-like odor.

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## IV - Fire and Explosion Hazard Data

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FLASH POINT (°F): N/A

(TEST METHOD): N/A

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/A

LOWER: N/A

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Strong acids and oxidizing agents.**CONDITIONS TO AVOID:** None**HAZARDOUS DECOMPOSITION PRODUCTS:** None**HAZARDOUS POLYMERIZATION:** Will not occur.

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**    **INHALATION:** X    **EYE CONTACT:** X    **SKIN CONTACT:**    **INGESTION:** X**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Moderate irritation and redness.**IF ON SKIN:** Mild skin irritant.**IF SWALLOWED:** Very large doses can cause vomiting, diarrhea, and prostration.**IF INHALED:** Irritation to upper respiratory tract. Exposure may trigger allergic response in susceptible persons (asthma).**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Wash with water. In case of contact with open wounds or broken skin wash affected area with soap & water and apply a topical antiseptic agent.**IF SWALLOWED:** Contact physician or poison control center immediately. Give affected person 1 to 2 glasses of water. Never give anything to an unconscious person.**IF INHALED:** Remove person to fresh air. Obtain medical attention if symptoms of allergic reaction appear within 12 hours.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area to prevent accumulation of dust. Sweep up spilled material place in a properly marked closed container for reuse or disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation. Do not breathe dusts.**VENTILATION**                      **LOCAL:** Recommended                      **MECHANICAL:** Not required**PROTECTIVE GLOVES:** None required under normal use, otherwise chemical resistant.**EYE PROTECTION:** None required under normal use, otherwise chemical goggles.**OTHER PROTECTIVE EQUIPMENT:** Eyewash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

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**IX - Transportation Information (ground transportation only)**

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**DOT ID NUMBER:** None**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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