



## STOLLER ENTERPRISES, INC.

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### BIO POWER

MSDS (rev. 2/04)

#### SECTION I PRODUCT IDENTIFICATION

##### NFPA HAZARD RATINGS

HEALTH HAZARD 1 FIRE HAZARD 0 REACTIVITY 0

##### SARA/TITLE III HAZARD CATEGORIES (See Section IX)

Immediate (ACUTE) Health: none Delayed (Chronic) Health: none  
Reactive Hazard: none Fire Hazard: none Sudden Release of Pressure: not applicable

Company Name: STOLLER ENTERPRISES, INC.  
Address: 4001 W Sam Houston Pkwy N, Suite 100, Houston, TX 77043 USA  
**Emergency Phone Number: CHEMTREC 1-800-424-9300**  
Phone Number for Information: 713-461-1493  
Chemical Family: metallic oxides  
Chemical Name & Synonyms: Chelates mixture  
Formula: See SECTION II COMPOSITION/INGREDIENTS INFORMATION  
Trade name & Synonyms: **BIO POWER**

#### SECTION II COMPOSITION/INGREDIENTS INFORMATION

INGREDIENTS:	CAS #	Approx. %	TLV
Zinc Oxide	1314-13-2	<10	
Manganese Oxide	1344-43-0	<5	
Copper Hydroxide	20427-59-2	<5	
Magnesium Oxide	1309-48-4	<5	

#### SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

**BOILING POINT:** 220°F **VAPOR PRESSURE (mm/Hg):** <1mm @ 68°F  
**MELTING POINT:** N/A **VAPOR DENSITY (air = 1):** 2.1  
**SPECIFIC GRAVITY:** 1.2 **REACTIVITY IN WATER:** N/A  
**SOLUBILITY IN WATER:** 100% **EVAPORATION RATE:** 0.1  
**APPEARANCE AND ODOR:** clear dark blue-green solution, no odor.

#### SECTION IV FIRE AND EXPLOSION DATA

**FLASH POINT:** NOT ESTABLISHED  
**FLAMMABLE LIMITS:** NOT ESTABLISHED **LEL:** **UEL:**  
**EXTINGUISHER MEDIA:** Use all means adequate to fight surrounding fire.  
**SPECIAL FIRE FIGHTING PROCEDURES:** NONE  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** NONE

#### SECTION V PHYSICAL HAZARDS (REACTIVITY DATA)

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Stable under normal conditions  
**INCOMPATIBILITY, MATERIALS TO AVOID:** Intimate mixtures with chlorinated rubber above 216°F  
**HAZARDOUS DECOMPOSITION PRODUCTS:** none

**SECTION VI HEALTH HAZARDS****A. EXPOSURE LIMITS**

OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED

Threshold Limit Value (TLV): NOT ESTABLISHED

**B. EFFECTS OF OVER EXPOSURE****1 ACUTE****Inhalation:** N/A**Eyes:** May cause irritation.**Ingestion:** May cause thirst, pain, nausea, vomiting and diarrhea.**Skin:** May irritate skin**2 CHRONIC;****C. EMERGENCY FIRST AID PROCEDURES:****EYES:** Flush with water for at least 15 minutes.**SKIN:** Wash thoroughly with soap and water.**INHALATION:** N/A**INGESTION:** Drink several glasses of water. Induce vomiting by introducing finger into throat.**D. ADDITIONAL INFORMATION:****SECTION VII SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES****HANDLING AND STORAGE:** Keep containers closed and away from oxidizing agents. Store only in shipping container:

Bulk material should be stored in Polyethylene Tanks with PVC fittings.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** It is necessary to contain spill into the smallest area possible by diking, etc., replace liquid into plastic container. If liquid is absorbed onto dry carrier such as soil or absorbent material, then this material should be put in covered labeled containers and dispose of as a dry waste.**WASTE DISPOSAL METHODS:** Follow all applicable federal, state and local regulations.**SECTION VIII - SPECIAL PROTECTION / CONTROL MEASURES****RESPIRATORY PROTECTION:****VENTILATION:****LOCAL EXHAUST:** Provide general or local exhaust ventilation.**SPECIAL VENTILATION:** Not applicable**PROTECTIVE GLOVES:** Wear protective gloves and clothing impervious to this material.**EYE PROTECTION:** Use chemical goggles. Use full-face respirator when there is any likelihood of splashes.**OTHER SPECIAL CLOTHING/EQUIPMENT:** Eye wash fountain should be located in immediate work area.**WORK/HYGIENIC PRACTICES:****SECTION IX ENVIRONMENTAL EFFECTS DATA**

The available data on this plant nutrient material does not indicate any undue hazard to the environment under anticipated use and storage. Any waste due to spillage or leakage should be contained and disposed of as a Fertilizer (see above under Waste Disposal Methods). Due to its nutrient value, may contribute to eutrophication in bodies of water.

**SECTION X TRANSPORTATION DATA****PROPER SHIPPING NAME:** N/A (Trade Name: BIO POWER)**DOT HAZARD CLASS:** Non-hazardous material; Non-regulated material**PLACARD:** N/A

To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section I. If the word "YES" appears next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.

Stoller Enterprises, Inc., believes the information contained in this Material Safety Data Sheet is accurate, based on the information supplied by reputable suppliers of our raw materials. The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.