

BIO POWER

Material Safety Data Sheet (rev.05/04)

SECTION I
PRODUCT IDENTIFICATION
NFPA HAZARD RATINGS

HEALTH HAZARD 1 FIRE HAZARD 0 REACTIVITY 0
 Based on the National Fire Protection Association rating system
 (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = High; 4 = Severe)

SARA/ TITLE III HAZARD CATEGORIES

Immediate (ACUTE) Health: NO Reactive Hazard: NO
 Delayed (Chronic) Health: NO Fire Hazard: NO Sudden Release of Pressure: N/ A

Company Name: STOLLER USA, INC.
 Address: 4001 W. Sam Houston Parkway, N., Suite 100
 Houston, Texas 77043-1226 U.S.A.
 Emergency Phone Number: CHEMTREC: In the U.S. and Canada call Toll-free: 1 (800) 424-9300
 From other countries call collect: 1 (703) 527-3887
 Phone Number for Information: 1 (800) 539-5283 or 1 (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/ INFORMATION ON INGREDIENTS

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
HAZARD IDENTIFICATION

- A. EXPOSURE LIMITS:**
1. OSHA Permissible Exposure Limit (PEL): NOT ESTABLISHED
 2. Threshold Limit Value (TLV): NOT ESTABLISHED
- B. CARCINOGEN OR POTENTIAL CARCINOGEN:**
- C. EFFECTS OF OVEREXPOSURE:**
1. **ACUTE:**
EYES: May cause irritation.
SKIN: May irritate skin.
INHALATION: N/ A
INGESTION: May cause thirst, pain, nausea, vomiting and diarrhea.

SECTION IV
FIRST-AID MEASURES

- A. 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.

SECTION V**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 VI**ACCIDENTAL RELEASE MEASURES**

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 disposed of as a dry waste.

SECTION VII**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.

SECTION VIII**SPECIAL PROTECTION / CONTROL MEASURES**

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.

SECTION IX**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 X**PHYSICAL HAZARDS (REACTIVITY DATA)**

STABILITY:	Stable: Yes	Unstable:
CONDITIONS TO AVOID:	Stable under normal conditions.	
INCOMPATIBILITY, MATERIALS TO AVOID:	Intimate mixtures with chlorinated rubber above 216°F.	
HAZARDOUS DECOMPOSITION PRODUCTS:	none	
MAY OCCUR:	WILL NOT OCCUR: X	

SECTION XI**TOXICOLOGICAL INFORMATION**

- A. **TOXICITY DATA:**
- B. **CARCINOGENICITY:**
- C. **MUTAGENICITY:**
- D. **REPRODUCTIVE TOXICITY:**

SECTION XII**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 XIII**DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHODS: Follow all applicable federal, state and local regulations.

SECTION XIV**TRANSPORTATION DATA**

PROPER SHIPPING NAME: N/ A (Trade Name: BIO POWER)

DOT HAZARD CLASS: Non Hazardous material; Non- regulated material

PLACARD: N/ A

USDOT Proper Shipping Name: N/ A (Trade Name: BIO POWER)