

POWERPLUS™

Material Safety Data Sheet (rev.01/20/10)

**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: YES      Reactive Hazard: NO  
 Delayed (Chronic) Health: NO      Fire Hazard: NO      Sudden Release of Pressure: NO

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: chelated metals and inorganic salts solution  
 Chemical Name & Synonyms: Liquid fertilizer containing boron, molybdenum and zinc  
 Formula: Proprietary  
 Trade name & Synonyms: **POWER PLUS**

**SECTION II**
**COMPOSITION/ INFORMATION ON INGREDIENTS**

INGREDIENTS:	CAS#	Approx. %	TLV
Zinc Oxide	1314-13-2	10-15%	10 mg/ m <sup>3</sup> (as Zn)
Orthoboric Acid	10043-35-3	20-25%	N/ E
Citric Acid	77-92-9	20-35%	10 mg/ m <sup>3</sup>
Sodium molybdate, dilhydrat	10102-40-6	<1	5.0 mg/ m <sup>3</sup> (as Mo)

**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:** Contact with product may cause severe irritation.

**SKIN:** May cause discomfort, skin irritation or rash unless treated promptly.

**INHALATION:** Prolonged exposure to low concentrations of vapors may cause sore throat and headache, nausea and dizziness, which are temporary.

**INGESTION:** May cause malaise, nausea, gastrointestinal damage. Large doses may cause liver and kidney damage or even death.

2. **CHRONIC:** Prolonged or repeated inhalation overexposure may cause bronchitis or pneumonia.

**SECTION IV**
**FIRST-AID MEASURES**
**A. EMERGENCY FIRST AID PROCEDURES:**
**EYES:** Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**SKIN:** Remove product & immediately flush affected area with water for 15 minutes. Do not apply greases or ointments. Launder contaminated clothing.

**INHALATION:** Move patient to fresh air. Supplemental oxygen may be indicated. Assure mucus does not obstruct airway. Call physician.

**INGESTION:** If swallowed, call a physician immediately. Do not induce vomiting.

**SECTION V****FIRE AND EXPLOSION DATA**

<b>FLASH POINT:</b>	Not Applicable	<b>LEL:</b>	<b>UEL:</b>
<b>FLAMMABLE LIMITS:</b>	Not Applicable		
<b>EXTINGUISHER MEDIA:</b>	Use all means adequate to fight surrounding fire.		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	None		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	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 on to 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.

**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**

**RESPIRATORY PROTECTION:** As required by conditions. Use an OSHA or NIOSH approved respirator.  
**VENTILATION:** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

**SECTION IX****PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>BOILING POINT:</b>	257°F (125°C)	<b>VAPOR PRESSURE (mm/ Hg):</b>	<1mm @ 68°F
<b>MELTING POINT:</b>	N/ A	<b>VAPOR DENSITY (air = 1):</b>	2.
<b>SPECIFIC GRAVITY:</b>	1.25	<b>REACTIVITY IN WATER:</b>	N/ A
<b>SOLUBILITY IN WATER:</b>	100%	<b>EVAPORATION RATE:</b>	0.1
<b>APPEARANCE AND ODOR:</b>	Semi- translucent liquid, sky- blue color, no odor.		

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

<b>STABILITY:</b>	Stable: Yes	Unstable:
<b>CONDITIONS TO AVOID:</b>	Stable under normal conditions	
<b>INCOMPATIBILITY, MATERIALS TO AVOID:</b>	Not Established	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Ammonia, amines, carbon dioxide.	
<b>MAY OCCUR:</b>	<b>WILL NOT OCCUR: X</b>	

**SECTION XI****TOXICOLOGICAL INFORMATION**

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

**SECTION XII****ENVIRONMENTAL EFFECTS DATA**

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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. 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.

**SECTION XIII****DISPOSAL CONSIDERATIONS**

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

**SECTION XIV****TRANSPORTATION DATA**

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**PROPER SHIPPING NAME:** N/ A (Trade name: POWER PLUS)  
**DOT HAZARD CLASS:** Non- Hazardous Material; Non- Regulated Material  
**PLACARD:** N/ A