



# STOLLER USA, INC.

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## ROOT POWER

## MATERIAL SAFETY DATA SHEET (rev. 02/11)

### SECTION I. PRODUCT IDENTIFICATION

#### IBMS HAZARD RATINGS

HEALTH HAZARD 1      FIRE HAZARD 0      REACTIVITY 0  
Based on the National Paint & Coatings Association HMIS rating system

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

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

Company Name: STOLLER USA, INC.

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**Emergency Phone Number:      CHEMTREC      In the US 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 norganic salts solution

Chemical Name & Synonyms: Liquid fertilizer containing boron and zinc

Formula: Proprietary

Tradename & Synonyms: **ROOT POWER**

### SECTION II. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS:	CAS #	Approx. %	TLV
Orthoboric Acid	10043-35-3	5 - 6	N/E
Zinc Oxide	1314-13-2	10 - 20	10 mg/ m <sup>3</sup> (as Zn)
Monoethanolamine	141-43-5	10 - 20	3 ppm
Citric Acid	77-92-9	20 - 35	10 mg/ m <sup>3</sup>

### SECTION III. PHYSICAL AND CHEMICAL CHARACTERISTICS

<b>BOILING POINT:</b> 240°F (115°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> 1.16 - 1.17	<b>REACTIVITY IN WATER:</b> N/A
<b>SOLUBILITY IN WATER:</b> 100%	<b>EVAPORATION RATE:</b> 0.1
<b>APPEARANCE AND ODOR:</b> Opaque dark tan to brown solution, characteristic odor.	<b>OTHER:</b>

### SECTION IV. FIRE AND EXPLOSION DATA

**FLASH POINT:**      Not Applicable  
**FLAMMABLE LIMITS:**      Not Applicable      **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:**      Not Established  
**HAZARDOUS DECOMPOSITION PRODUCTS:**      Ammonia, amines, carbon dioxide.  
**HAZARDOUS POLYMERIZATION:**      **WILL NOT OCCUR**      X

**SECTION VI HEALTH HAZARDS****EXPOSURE LIMITS**

OSHA Permissible Exposure Limit (PEL): Not Established

Threshold Limit Value (TLV): Not Established

**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.

**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 mucous does not obstruct airway. Call Physician.

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

**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:** As required by conditions. Use and OSHA or NIOSH approved respirator.

**VENTILATION:** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions.

**SKIN AND EYE PROTECTION:** Safety glasses should be worn in any type of operation. Protective gloves, long sleeved and long pants should be worn as good safety practices dictate.

**OTHER CONTROL MEASURES:** An eye bath and washing facilities should be available. Wash thoroughly after handling. Do not smoke, eat, drink, chew gum or tobacco when handling chemicals.

**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.

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 X TRANSPORTATION DATA**

**PROPER SHIPPING NAME:** N/A (Trade name: ROOT POWER)

**DOT HAZARD CLASS:** Non-Hazardous Material; Non-Regulated Material

**PLACARD:** N/A

Stoller USA, 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.