

ROOT FEED II

Material Safety Data Sheet (rev.01/05)

**SECTION I PRODUCT IDENTIFICATION**

	<b>NFPA HAZARD RATINGS</b>
	HEALTH HAZARD 1      FIRE HAZARD 0      REACTIVITY 0
	<b>SARA/ TITLE III HAZARD CATEGORIES</b>
	Immediate (ACUTE) Health: NO      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 USA and Canada call toll-free: 1-800-424-9300 From all other countries call collect: 1(703)527- #887
Phone Number for Information:	1(800) 539-5289 or 1(713) 461-1493
Chemical Family:	Inorganic Salt Solution
Chemical Name & Synonyms:	Chelates mixture
Formula:	Proprietary
Trade name & Synonyms:	<b>ROOT FEED 9-0-0</b>

**SECTION II PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>INGREDIENTS:</b>	<b>CAS#</b>	<b>Approx. %</b>	<b>TLV</b>
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**SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS**

<b>BOILING POINT:</b>	220°F	<b>VAPOR PRESSURE (mm/ Hg):</b>	
<b>MELTING POINT:</b>		<b>VAPOR DENSITY (air = 1):</b>	N/ A
<b>SPECIFIC GRAVITY:</b>	1.31	<b>REACTIVITY IN WATER:</b>	
<b>SOLUBILITY IN WATER:</b>	100 % Soluble	<b>EVAPORATION RATE:</b>	<1
<b>APPEARANCE AND ODOR:</b>	Clear, dark amber liquid - no odor.		
<b>PERCENT VOLATILE BY VOLUME:</b>	Not determined		

**SECTION IV FIRE AND EXPLOSION DATA**

<b>FLASH POINT:</b>	N/ A	<b>LEL:</b>	<b>UEL:</b>
<b>FLAMMABLE LIMITS:</b>			
<b>EXTINGUISHER MEDIA:</b>	Product is non- flammable. Use any means to fight surrounding fire: water, CO <sub>2</sub> , or dry chemicals.		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Wear self- contained breathing apparatus.		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Toxic fumes may be generated at elevated temperatures.		

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

<b>STABILITY:</b>	Stable: Yes	Unstable:
<b>INCOMPATIBILITY, MATERIALS TO AVOID:</b>	Phosphoric compounds, borated compounds.	
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Toxic chloride fumes and NO <sub>2</sub> may evolve when heated over 300°F	
<b>HAZARDOUS POLYMERIZATION:</b>	None	
<b>MAY OCCUR:</b>	<b>WILL NOT OCCUR: X</b>	

**SECTION VI****HEALTH HAZARDS**

- 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 moderate to severe eye irritation with corneal injury.  
**SKIN:** Prolonged or repeated exposure may cause skin irritation, even burns.  
**INHALATION:** Mists may cause irritation to upper respiratory tract, nausea.  
**INGESTION:** May cause gastrointestinal irritation or ulceration.
- D. **EMERGENCY FIRST AID PROCEDURES:**
- EYES:** IMMEDIATELY flush eyes with a direct stream of water for at least 15 minutes; if irritation occurs, GET MEDICAL ATTENTION
- SKIN:** If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician.
- INHALATION:** Remove from exposure area. If irritation exists from mists or, in the event of massive inhalation, seek medical attention.
- INGESTION:** Wash thoroughly with soap and water.
- E. **ANIMAL TOXICITY DATA:** Not Known

**SECTION VII****SPECIAL PRECAUTIONS & SPILL/ LEAK PROCEDURES**

**HANDLING AND STORAGE:** Keep containers closed and away from oxidizing agents. Store only in shipping container: Pails (PVC or HDPE), Drums (Polyethylene) and Mini Bulk tanks (Polyethylene). Bulk material should be stored in Polyethylene Tanks with PVC fittings.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED:** Collect and contain for salvage or disposal. Absorb waste on inert media and dispose of as solid waste. Flush residues with water.

**WASTE DISPOSAL METHODS:** Follow all federal, state and local laws concerning health and environment.

**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****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 hormonal 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 (ROOT FEED)

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

**PLACARD:** N/ A

**IATA Proper Shipping Name:** N/ A

**IMO Proper Shipping Name:** N/ A

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