

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

**Trade Name:** SP Root Enhancer  
**Registration No:** None

#### SECTION 1

#### CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Manufacturer For:</b>	J.R. Simplot Company P.O. Box 70013 Boise, ID 83707	<b>Product Name:</b>	SP Root Enhancer
<b>Emergency Phone - Chemtrec:</b>	1-800-424-9300	<b>Common Name:</b>	12-31-14
		<b>Chemical Type:</b>	Inorganic Chemical Fertilizer

#### SECTION 2

#### COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
Potassium Nitrate	7757-79-1				
		<b>Hazardous</b>		N/A	
		<b>Non-Hazardous</b>			
Monoammonium Phosphate	7722-76-1			N/A	
Ammonium Sulfate	7783-20-2			N/A	
Magnesium Sulfate	7487-88-9			10.00 mg Mg/m <sup>3</sup>	
Sodium Borate	11130-12-4			10.00 mg B <sub>2</sub> O <sub>3</sub> /m <sup>3</sup>	
Cupric EDTA	14025-15-1			N/A	
Sodium Ferric EDTA	15708-41-5			N/A	
Manganese EDTA	55448-20-9			5.00 mg Mn/m <sup>3</sup>	
Sodium Molybdate	7631-95-0			5.00 mg Mo/m <sup>3</sup> Blue	
Zinc EDTA	15954-98-0			N/A	

#### SECTION 3

#### HAZARDS IDENTIFICATION

**Ingestion:** Minimal hazard under normal conditions and use. Ingestion of large quantities may cause gastrointestinal discomfort, vomiting, weakness or other medically related problems.

**Inhalation:** Dusty conditions may cause mechanical aggravation to respiratory mucous membranes.

**Eye Contact:** Dust from this product may cause particulate discomfort to eyes.

**Skin Absorption:** Not normally absorbed through the skin.

**Skin Contact:** Slight dermal abrasion is possible with prolonged contact, especially around cuffs and collars.

**Effects of Overdose:** Acute exposure can cause aggravation of skin, eyes and respiratory system. Chronic exposure can cause damage to respiratory system, urinary system, blood system and reproductive system.

#### SECTION 4

#### FIRST AID MEASURES

**Ingestion:** Seek medical attention immediately.

**Inhalation:** Remove to fresh air. Seek medical attention immediately.

**Eyes:** Flush eyes with running water for at least 15 minutes. Seek medical attention if condition persists.

**Skin:** Wash with soap and water. Seek medical attention if condition persists.

**Notes to Physician:** Consult standard literature. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

#### SECTION 5

#### FIRE FIGHTING MEASURES

**Extinguishing Media:** Product is not combustible.

**Special Fire Fighting Procedures:** Wear approved self-contained breathing apparatus. Remove all sources of ignition.

**Unusual Fire and Explosion Hazards:** Metallic fume and ammonia fume can be released under intense heat. This product contains an oxidizer and may increase the intensity of a fire. Do not wash material into any streams, waterways, drainage ditches or storm sewers, etc. Impound liquids used in firefighting to prevent entry into streams, ditches, sewers, etc.

#### SECTION 6

#### ACCIDENTAL RELEASE MEASURES

**Environmental Precautions:** Keep out of water supplies, lakes, ponds, streams and rivers. This product is a fertilizer and may promote algae growth.

**Steps to be taken in case material is released or spilled:**  
Keep from entering waterways. Remove all sources of ignition. Shovel or sweep up and reuse. Use approved liquid spray to reduce dust when sweeping or shoveling. Dispose of contaminated product, empty containers and materials used in cleaning up spills and leaks in a manner approved for this material

#### SECTION 7

#### HANDLING AND STORAGE

**Precautions to be taken in handling and storing:**  
Store in a cool, dry area. Prevent spillage and separate from strong oxidizers. Use normal safety procedures and good personal hygiene. Keep out of the reach of children. Hands, arms and face should be washed prior to eating, drinking or smoking.

Trade Name: SP Root Enhancer  
Registration No: None

**SECTION 8****EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Adequate ventilation to remove dust from air.  
**Respiratory Protection:** Approved respirator per 29 CFR 1910.134  
**Protective Clothing:** Long sleeved shirts, heavy duty work gloves.  
**Eye Protection:** In dusty conditions, safety glasses with side shields or goggles may be necessary.

**SECTION 9****PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Not applicable	<b>Solubility in Water:</b>	Yes
<b>Density:</b>	Not available	<b>% Volatiles (by volume):</b>	Not applicable
<b>Flashpoint:</b>	Non-flammable	<b>Vapor Pressure, mm Hg:</b>	Not applicable
<b>pH:</b>	Not listed	<b>Reaction with Water:</b>	None
<b>Appearance:</b>	Pale blue powder.		
<b>Extinguishing Media:</b>	Use media suitable to extinguish source of fire.		

**SECTION 10****STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable  
**Conditions to Avoid:** Extremely high temperatures. This product is not flammable matter, but metallic fume and ammonia fume can be released under intense heat.  
**Incompatibility (Material to Avoid):** This product contains an oxidizer and may increase the intensity of fire. Prolonged contact may cause oxidation of unprotected metals.  
**Hazardous Decomposition Products:** During extremely high temperature fire conditions, the product may reach melting point and decompose to release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub> or CN.  
**Hazardous Polymerization:** Will not occur

**SECTION 11****TOXICOLOGY INFORMATION**

	<b><u>Oral LD50 (rat)</u></b>	<b><u>Dermal LD50 (rat)</u></b>	<b><u>Aquatic Fish 96-hour</u></b>	<b><u>Aquatic (other)</u></b>
<b>Monoammonium Phosphate</b>	> 2,000 mg/kg	> 5,000 mg/kg	> 86 mg/L (rainbow trout)	none listed
Potassium Nitrate	(rabbit) 1,900-3,750 mg/kg	> 5,000 mg/kg	1,378-3,000 mg/L	none listed
<b>Ammonium Sulfate</b>	640-4,250 mg/kg	> 2,000 mg/kg	> 13.6-159.8 mg total NH <sub>3</sub> /L	> 27.0 mg/total NH <sub>3</sub> /L (daphnia)

All toxicity data from TFI Product Testing Results.

**SECTION 12****ECOLOGICAL INFORMATION**

None listed.

**SECTION 13****DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Pick up with a shovel and broom and use as a fertilizer by applying to soil using good agricultural practices and soil management. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures.

**SECTION 14****TRANSPORT INFORMATION**

<b>Shipping name:</b>	Not regulated by DOT	<b>C.A.S. Number:</b>	See "Ingredients"
<b>Hazard Class:</b>	None	<b>D.O.T. Number:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>Waste No:</b>	None
<b>Labels Required:</b>	None	<b>EPA Regist No:</b>	None
<b>Placard:</b>	None		

**SECTION 15****REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X)

Not on the 302 list of SARA reportable quantities.

**SECTION 16****OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	Non-flammable	<b>Flammable Limits</b>	<b>LOWER</b>	<b>UPPER</b>
<b>Autoignition Temperature:</b>	Not applicable	(% BY VOLUME)	N/A	N/A

**MSDS Version Number: 2**

**Disclaimer:** This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED.** It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

Reviewed by: Environmental, Health, & Safety  
January 2007 (208) 389-7394