

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

M779585

Trade Name: Apex 16-6-11 NPK Max T-6  
Registration No: None

#### SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company  
P.O. Box 27  
Boise, ID 83707  
Emergency Phone - Chemtrec: 1-800-424-9300

Product Name: Apex 16-6-11 NPK Max T-6  
Common Name: 16-6-11  
Chemical Type: Inorganic Chemical Fertilizer

#### SECTION 2 HAZARDS IDENTIFICATION

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

**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: Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention. CHRONIC: No chronic health effects data have been established.

#### SECTION 3 COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
None listed					
This product is a blend of the following non-hazardous ingredients:			100%		
Ammonium Nitrate	6484-52-2	NH <sub>4</sub> NO <sub>3</sub>		10 mg/m <sup>3</sup> Nuisance Dust	Not available
Mono-ammonium Phosphate	7722-76-1	NH <sub>4</sub> H <sub>2</sub> PO <sub>4</sub>		10 mg/m <sup>3</sup> Nuisance Dust	Not available
Di-ammonium Phosphate	7783-28-0	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>		10 mg/m <sup>3</sup> Nuisance Dust	Not available
Potassium Sulfate	7778-80-5	K <sub>2</sub> SO <sub>4</sub>		10 mg/m <sup>3</sup> Nuisance Dust	Not available
Zinc Sulfate	7733-02-0	ZnO <sub>4</sub> S		Not listed	Not available
Sodium Molybdate	7631-95-0	MoNa <sub>2</sub> O <sub>4</sub>		Not listed	Not available
EDTA Iron Chelate	15708-41-5	C <sub>10</sub> H <sub>12</sub> FeN <sub>2</sub> NaO <sub>8</sub>		1 mg/m <sup>3</sup> (as Fe)	Not available
Manganese Sulfate	7785-87-7	MnO <sub>4</sub> S		0.2 mg/m <sup>3</sup> (as Mn)	5 mg/m <sup>3</sup> (as Mn)
Magnesium Sulfate	10034-99-8	MgO <sub>4</sub> S		Not listed	Not available
Polyurethane Coating	N/A	N/A		Not listed	Not available

#### SECTION 4 FIRST AID MEASURES

**Ingestion:** If large amount is ingested, give 2-3 glasses of water and induce vomiting. This product may result in nitrate poisoning. Seek medical attention.

**Inhalation:** Remove to fresh air. Seek medical attention if condition persists.

**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:** Use media suitable to extinguish source of fire.

**Special Fire Fighting Procedures:** Product is not combustible.

**Unusual Fire and Explosion Hazards:** 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. No oxidizing properties.

#### 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. Large spills may cause illness to animals and possibly kill vegetation. Contamination of waterways may cause fish kill. Prevent large quantities from contacting vegetation or waterways. Keep animals away from large spills.

**Steps to be taken in case material is released or spilled:**  
Keep from entering waterways. Sweep up material and place in suitable container for use as a fertilizer or for disposal.

#### 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.

#### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Protection:** Adequate ventilation to maintain dust levels below ACGIH TLV and OSHA PEL limits.

**Respiratory Protection:** Use NIOSH/MSHA approved dust respirator when necessary.

**Protective Clothing:** Normal clean work clothing.

**Eye Protection:** In dusty conditions, safety glasses with side shields or goggles may be necessary.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Not applicable	<b>Solubility in Water:</b>	90mg/100mg H <sub>2</sub> O @ 78°F; Polyon® coating insoluble
<b>Density:</b>	65-68 lbs/ft <sup>3</sup>	<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>	Beige, brown, green and/or blue granules.		
<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.  
**Incompatibility (Material to Avoid):** Strong oxidizing agents. 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.  
**Possibility of Hazardous Reactions:** Will not occur

**SECTION 11 TOXICOLOGY INFORMATION**

	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rat)</u>	<u>Aquatic Fish 96-hour</u>	<u>Aquatic (other)</u>
<b>Mono-ammonium Phosphate</b>	> 2,000 mg/kg	> 5,000 mg/kg	> 86 mg/L (rainbow trout)	none listed
<b>Di-ammonium Phosphate</b>	> 2,000 mg/kg	> 5,000 mg/kg	> 31-1,506.3 mg/L	stimulation at 6.41 mg/L (algae)
<b>Ammonium Nitrate</b>	1,480-1,770 mg/kg	> 5,000 mg/kg	95-102 mg/kg total NH <sub>3</sub> /L	124.9 mg total NH <sub>3</sub> /L (daphnia)
<b>Inhalation 4-hour LC50:</b>	> 88,800 mg/m <sup>3</sup>			
<b>Potassium Sulfate</b>	6,600 mg/kg	none listed	680-3,550 mg/L	720-890 mg/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.

**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>Sub. Hazard Class:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>D.O.T. Number:</b>	None
<b>Marine Pollutant:</b>	No	<b>Labels Required:</b>	None
<b>ERG Number:</b>	None	<b>Placard:</b>	None
<b>Haz Waste No:</b>	None		
<b>EPA Regist No:</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: 3** (revision to Section 3)

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**Reviewed by:** The Environmental Health & Safety Department  
April 2007 (208) 389-7394