

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

Trade Name: Apex 16-6-12 NPK MAX  
 Registration No: None

**M779586**

SECTION 1	CHEMICAL PRODUCT AND COMPANY INFORMATION
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<b>Manufacturer or Formulator:</b> J.R. Simplot Company P.O. Box 70013 Boise, ID 83707 <b>Emergency Phone - Chemtrec:</b> 1-800-424-9300	<b>Product Name:</b> Apex 16-6-12 NPK MAX <b>Common Name:</b> 16-6-12 <b>Chemical Type:</b> Inorganic Chemical Fertilizer
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SECTION 2	COMPOSITION INFORMATION
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Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
NONE			Non Hazardous		
A homogenous product consisting of:			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
Sulfate of Potash	7778-80-5	K <sub>2</sub> SO <sub>4</sub>		10 mg/m <sup>3</sup> Nuisance Dust	Not available
Copper Sulfate	7758-99-8	CuSO <sub>4</sub> · 5H <sub>2</sub> O		1 mg/m <sup>3</sup> (TWA) dusts/mists as Cu	1 mg/m <sup>3</sup> (TWA) dusts/mists as Cu
Magnesium Sulfate	7487-88-9	MgO <sub>4</sub> S		Not listed	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)
Zinc Sulfate	7733-02-0	ZnO <sub>4</sub> S		Not listed	15mg/m <sup>3</sup> PNOC
Sodium Molybdate	7631-95-0	MoNa <sub>2</sub> O <sub>4</sub>		Not listed	Not available
Iron EDTA	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
Diatomaceous Earth	--	--			
Polyurethane Coating	--	--			
Wax	--	--			

SECTION 3	HAZARDS IDENTIFICATION
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**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:** Ingestion of large doses may cause diarrhea, nausea, abdominal cramps or formation of methemoglobinemia. Seek medical attention.

SECTION 4	FIRST AID MEASURES
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**Ingestion:** If large amount is ingested, give 2-3 glasses of water and induce vomiting. 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
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**Extinguishing Media:** Use media suitable to extinguish source of fire.

**Special Fire Fighting Procedures:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

**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.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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**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.

**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
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**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.

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**SECTION 8**

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Adequate ventilation. Applicators should stand up-wind if excess dust is observed.  
**Respiratory Protection:** 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.

**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
<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>	Green 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.  
**Hazardous Polymerization:** Will not occur

**SECTION 11**

**TOXICOLOGY**

	Oral LD50 (rat)	Dermal LD50 (rat)	Aquatic Fish 96	Aquatic (other)
<b>Mono-ammonium Phosphate</b>	> 2,000 mg/kg	> 5,000 mg/kg	> 86 mg/L (rainbow trout)	none listed
<b>Sulfate of Potash</b>	6,600 mg/kg	none listed	680-3,550 mg/L	720-890 mg/L (daphnia)
<b>Copper Sulfate</b>	472 mg/kg	none listed	< 1 mg/L	0.1 mg/L (rainbow trout)
<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/m3			

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>D.O.T. Number:</b>	None
<b>Reportable Quantity (RQ):</b>	None	<b>Haz 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: 4** (revisions to Sections 1, 2, 9 & 11)

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