

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

Trade Name: Apex 16-5-11 NPK  
Registration No: None

M765212

#### SECTION 1

#### CHEMICAL PRODUCT AND COMPANY INFORMATION

<b>Manufacturer or Formulator:</b>	J.R. Simplot Company P.O. Box 70013 Boise, ID 83707	<b>Product Name:</b>	Apex 16-5-11 NPK
<b>Emergency Phone - Chemtrec:</b>	1-800-424-9300	<b>Common Name:</b>	16-5-11
		<b>Chemical Type:</b>	Inorganic Fertilizer

#### SECTION 2

#### COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
NONE			Non Hazardous 100		
A homogenous product consisting of:					
Ammonium Nitrate	6484-52-2	NH <sub>4</sub> NO <sub>3</sub>			
Monoammonium 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
Polyurethane Coating	NA	NA			
Diatomaceous Earth	NA	NA			
Wax	NA	NA			

#### SECTION 3

#### HAZARDS IDENTIFICATION

**Ingestion:** Manufacturer lists as route of entry.  
**Inhalation:** Manufacturer lists as route of entry.  
**Eye Contact:** May cause moderate aggravation.  
**Skin Absorption:** May cause moderate aggravation.  
**Skin Contact:** May cause moderate aggravation.  
**Effects of Overdose:** ACUTE: Aggravation to eyes, skin or respiratory tract. Small amounts: Weakness, general depression, headache and mental impairment. Large amounts: Dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness convulsions and collapse.  
CHRONIC: No chronic health effects data have been established.

#### SECTION 4

#### FIRST AID MEASURES

**Ingestion:** Ingestion of large quantities may cause Nitrate poisoning. Immediately call a physician or the Poison Control Center at (202) 625-3333 for assistance.  
**Inhalation:** No appreciable dust with this product; however, if symptoms of moderate discomfort to the nose, throat or lungs occur, remove victim to fresh air. Call a physician if the discomfort 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:** Delay absorption of ingested nitrates by giving milk or activated charcoal and then remove by gastric lavage or emesis.

#### SECTION 5

#### FIRE FIGHTING MEASURES

**Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub> sand or fine earth. Material is essentially non-flammable.  
**Special Fire Fighting Procedures:** Wear full protective clothing and self-contained breathing apparatus. Short term exposure to smoke, fumes and gases can lead to irreversible lung injury without early signs and symptoms. Use extinguishing media suitable for the surrounding fire.  
**Unusual Fire and Explosion Hazards:** Decomposes on heating. No oxidizing properties.

#### SECTION 6

#### ACCIDENTAL RELEASE MEASURES

**Environmental Precautions:** This product is plant food. However, large spills could possible kill vegetation or cause illness in animals. Contamination of waterways may kill fish. Prevent large quantities form contacting vegetation or waterways. Keep animals away from large spills.  
**Steps to be taken in case material is released or spilled:** If material is uncontaminated, collect and reuse as recommended for product. Avoid dusts or approved respirator..

#### SECTION 7

#### HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Store away from combustibles. Store in origina container in a cool dry area. Keep out of the reach of children and domestic animals. Store separately from feed and food so that cross contamination does not occur.

#### SECTION 8

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Protection:** Provide local or general ventilation to keep dust below ACGIH nuisance dust limit of 10 mg/m<sup>3</sup>. Applicators should stand up-wind if excess dust is observed.  
**Respiratory Protection:** Approved dust respirator should be used if dust exposure exceeds levels of 10 mg/m<sup>3</sup>.  
**Protective Clothing:** No protection normally required. Long sleeves and impervious gloves should be worn by those with usually sensitive skin.  
**Eye Protection:** Use of safety glasses with side shields is recommended.  
**Other:** Washing facilities should be available.

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## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	Not applicable	<b>Solubility in Water:</b>	Fertilizer ingredients are 90% soluble; polyurethane coating is water 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>	Green granules		
<b>Extinguishing Media:</b>	Use media suitable to extinguish source of fire.		

## SECTION 10

## STABILITY AND REACTIVITY

<b>Stability (Normal Conditions):</b>	Stable in normal usage and storage.
<b>Conditions to Avoid:</b>	None listed
<b>Incompatibility (Material to Avoid):</b>	None
<b>Hazardous Decomposition Products:</b>	Thermal decomposition can form nitrogen gases
<b>Hazardous Polymerization:</b>	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>Potassium Sulfate</b>	6,600 mg/kg	none listed	680-3,550 mg/L	720-890 mg/L (daphnia)
<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:** Apply as fertilizer if uncontaminated. If contaminated, dispose of in accordance with all Federal, state and local laws.

## 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
<b>NFPA Hazard Rating:</b>	<b>Health: 1</b>	<b>Fire: 0</b>	<b>Reactivity: 0</b>	<b>Specific: Not applicable</b>
This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association (N.F.P.A.).				
<b>MSDS Version Number: 5</b> (2009 Formulation revisions to section 2, 9 & 11)				

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