

# Material Safety Data Sheet

## J. R. Simplot Company

### AgriBusiness

Trade Name: Apex Micronutrient Formulation "No B"  
Registration No: None

M74218

#### SECTION 1

#### CHEMICAL PRODUCT AND COMPANY INFORMATION

Manufacturer or Formulator: J.R. Simplot Company  
P.O. Box 70013  
Boise, ID 83707

Product Name: Apex Micronutrient Formulation "No B"  
Common Name: Micronutrient Formulation  
Chemical Type: Inorganic Chemical Fertilizer

Emergency Phone - Chemtrec: 1-800-424-9300

#### SECTION 2

#### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
None listed					
			Non-hazardous		
Blended non-hazardous ingredients:			100%		
Iron Sulfate	7720-78-7	FeSO <sub>4</sub>		1 mg/m <sup>3</sup> (soluble, as Fe)	Not available
Calcium Sulfate	7778-18-9	CaH <sub>2</sub> SO <sub>4</sub>			
Magnesium Sulfate	7487-88-9	MgH <sub>2</sub> SO <sub>4</sub>			
Manganese Sulfate	7785-87-7	MnH <sub>2</sub> SO <sub>4</sub>		0.2 mg/m <sup>3</sup> (as Mn)	5 mg/m <sup>3</sup> (as Mn)
Zinc Sulfate	7733-02-0	ZnSO <sub>4</sub>			
Copper Sulfate	7758-98-7	CuH <sub>2</sub> SO <sub>4</sub>		1 mg/m <sup>3</sup> (dust, as Cu)	1 mg/m <sup>3</sup> (dust, as Cu)
PHT Break Thru (wetting agent)	None	Not Applicable			
Sodium Molybdate	7631-95-0	Na <sub>2</sub> MoO <sub>4</sub>			

#### 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:** May cause nonspecific aggravation of upper respiratory tract in very dusty conditions. TLV of 10 mg/m<sup>3</sup> for nuisance dust.

**Eye Contact:** Contact with dust may cause particulate discomfort.

**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 quantities may produce abdominal discomfort, nausea, vomiting, cramps, diarrhea.

#### SECTION 4

#### FIRST AID MEASURES

**Ingestion:** If large amount is ingested, give 2-3 glasses of water or warm, salty water and induce vomiting. Seek medical attention.

**Inhalation:** Remove to fresh air. If respiratory discomfort continues, seek medical attention.

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

**Skin:** Wash skin with soap and water.

#### SECTION 5

#### FIRE FIGHTING MEASURES

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

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** During extremely high temperature fire conditions, the product may reach melting point and decompose to release toxic fumes.

#### SECTION 6

#### ACCIDENTAL RELEASE MEASURES

**Environmental Precautions:** Keep out of waterways. This product is a fertilizer and may promote algae growth.

**Steps to be taken in case material is released or spilled:**  
Sweep up and place into suitable container for recycle, use, or disposal.

#### SECTION 7

#### HANDLING AND STORAGE

**Precautions to be taken in handling and storing:**  
Store in clean, dry area. Keep out of reach of children.

#### SECTION 8

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ventilation Protection:** Adequate ventilation to control dust.

**Respiratory Protection:** Approved dust mask if necessary in a dusty environment.

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

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

**Other:** Eyewash fountain recommended.

Trade Name: Apex Micronutrient Formulation "No B"  
Registration No: None

M74218

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not available	Solubility in Water:	Not available
Density:	67 lbs/ft <sup>3</sup>	% Volatiles (by volume):	Not applicable
Flashpoint:	Non-flammable	Vapor Pressure, mm Hg:	Not applicable
pH:	None listed	Reaction with Water:	None
Appearance:	Brownish gray granular material.		
Extinguishing Media:	Non-flammable. Use media suitable to extinguish source of fire.		

## SECTION 10

## STABILITY AND REACTIVITY

Stability (Normal Conditions):	Stable
Conditions to Avoid:	Extreme heat.
Incompatibility (Material to Avoid):	Strong oxidizing agents.
Hazardous Decomposition Products:	When heated to decomposition may emit fumes of PO <sub>x</sub> , SO <sub>x</sub> and NO <sub>x</sub> .
Hazardous Polymerization:	Will not occur

## SECTION 11

## TOXICOLOGY INFORMATION

None listed.

## SECTION 12

## ECOLOGICAL INFORMATION

None listed.

## SECTION 13

## DISPOSAL CONSIDERATIONS

**Waste Disposal Procedures:** Dispose of in accordance to state, local, and federal regulations. May be used for intended purpose as a fertilizer.

## SECTION 14

## TRANSPORT INFORMATION

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

## SECTION 15

## REGULATORY INFORMATION

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

This product contains manganese and zinc which are subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## SECTION 16

## OTHER INFORMATION

Flash Point (Test Method):	Not applicable	Flammable Limits	LOWER	UPPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A	N/A

**MSDS Version Number:** 3 (revision to Section 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:** The Environmental Health & Safety Department  
July 2006 (208) 389-7394