

**Material Safety Data Sheet**  
**J. R. Simplot Company**  
**AgriBusiness**

Trade Name: Custom Blend 18-10-10  
Registration No: None

**M803683**

**SECTION 1**

**CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Manufactured For:** J.R. Simplot Company  
P.O. Box 70013  
Boise, ID 83707  
**Emergency Phone - Chemtrec:** 1-800-424-9300

**Product Name:** Custom Blend 18-10-10  
**Common Name:** 18-10-10  
**Chemical Type:** Polyon-coated high nitrate fertilizer

**SECTION 2**

**COMPOSITION INFORMATION**

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT% Hazardous	TLV	PEL
None listed					
This is a homogeneous granular product containing:			<b>Non-Hazardous</b> 100%		
Ammonium Nitrate	6484-52-2	NH <sub>4</sub> NO <sub>3</sub>			
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	
Sulfate of Potash	7778-80-5	K <sub>2</sub> SO <sub>4</sub>		10 mg/m <sup>3</sup> nuisance dust	
Urea	57-13-6	CO(NH <sub>2</sub> ) <sub>2</sub>		10mg/m <sup>3</sup> nuisance dust	15 mg/m <sup>3</sup> Nuisance Dust
Diatomaceous Earth	--	--			
Wax	--	--			
Polyurethane Coating	--	--			

**SECTION 3**

**HAZARDS IDENTIFICATION**

**Ingestion:** Ingestion of large quantities may cause nitrate poisoning.  
**Inhalation:** No appreciable dust with this product.  
**Eye Contact:** May cause moderate discomfort.  
**Skin Absorption:** May cause moderate aggravation.  
**Skin Contact:** May cause moderate aggravation.  
**Effects of Overdose:** ACUTE: Aggravation to eyes, sin or respiratory tract. Small amounts may cause weakness, general depression, headache, and mental impairment. Large amounts may cause 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:** If ingestion occurs, immediately call a physician or the Poison Control Center at 202-625-3333 for assistance.  
**Inhalation:** If symptoms or moderate aggravation to the nose, throat or lungs occur, move to fresh air. Call a physician if discomfort persists.  
**Eyes:** If eye contact occurs, flush eyes with running water for 15 minutes. Call a physician if discomfort persists.  
**Skin:** Wash with soap and water if aggravation occurs. Call a physician if discomfort persists.  
**Note to Physician:** Delay absorption of ingested nitrates by giving water, 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 a plant food. However, large spills could possibly kill vegetation or cause illness in animals. 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:**  
If material is uncontaminated, collect and reuse as recommended for product. Avoid dusts or use approved respirator.

**SECTION 7**

**HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**  
Store in original container in a cool, dry area. Keep out of reach of children and domestic animals. Store separately from feed, food, other fertilizers, seeds and pesticides so that cross contamination does not occur. Wash hands with soap and water after handling.

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**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 upwind.  
**Respiratory Protection:** An approved respirator should be used if dust exceeds level of 10 mg/M<sup>3</sup>.  
**Protective Clothing:** No protective clothing normally required. Long sleeves and impervious gloves should be worn by those with unusually sensitive skin.  
**Eye Protection:** Use of safety glasses with side shield is recommended.  
**Other:** Washing facilities should be available.

**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	Not applicable	<b>Melting Point:</b>	Decomposes on heating.
<b>Density:</b>	65-68 lbs/ft <sup>3</sup>	<b>% Volatiles (by volume):</b>	Not listed
<b>Flashpoint:</b>	Non-flammable	<b>Vapor Pressure, mm Hg:</b>	Not applicable (solid)
<b>pH:</b>	Not listed.	<b>Solubility in Water:</b>	Fertilizer 90% soluble; polyurethane coating water insoluble
<b>Extinguishing Media:</b>	Use media suitable for extinguishing source of fire.		
<b>Appearance:</b>	Green granules.		

**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable in normal use and storage.  
**Conditions to Avoid:** None listed  
**Incompatibility (Material to Avoid):** None  
**Hazardous Decomposition Products:** Thermal decomposition can form nitrogen oxides, hydrogen cyanide, ammonia and carbon dioxide.  
**Hazardous Polymerization:** 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>Monoammonium 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>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>Urea</b>	14,300 mg/kg		>9,100 mg/L	> 10,000 mg/L (daphnia)

**Inhalation 4 hour LC50:** > 88,800 mg/m<sup>3</sup>  
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 (domestic - by land):</b>	Not regulated by DOT	<b>Shipping name (air or water):</b>	Ammonium Nitrate Fertilizers, 9, UN2071, P.G. III
<b>Hazard Class (domestic - by land):</b>	None	<b>Hazard Class (air or water):</b>	Class 9
<b>Labels Required (domestic - by land):</b>	None	<b>Labels Required (air or water):</b>	Class 9
<b>Placard (domestic-by land):</b>	None	<b>Placard (air or water):</b>	Class 9
<b>Reportable Quantity (RQ):</b>	None	<b>D.O.T. Number:</b>	None
<b>Haz Waste No:</b>	None	<b>C.A.S. Number:</b>	See "Ingredients"
<b>EPA Regist No:</b>	None		

**SECTION 15**

**REGULATORY INFORMATION**

**Carcinogenicity:** by IARC?: Yes ( ) No (X) by NTP?: Yes ( ) No (X) Not on the SARA 302 list of reportable quantities.

**SECTION 16**

**OTHER INFORMATION**

<b>Flash Point (Test Method):</b>	Not applicable	<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:</b> 1 <b>Fire:</b> 0 <b>Reactivity:</b> 0	<b>Specific:</b>	Not applicable	

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.).  
**MSDS Version Number: 1**

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