Material Safety Data Sheet
J. R. Simplot Company
AgriBusiness

Trade Name: Best Nitra King® 19-4-4 **M74081**
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: Best Nitra King® 19-4-4
Common Name: 19-4-4
Chemical Type: Inorganic Chemical Fertilizer

SECTION 2 COMPOSITION INFORMATION

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
			Hazardous		
Ammonium Nitrate	6484-52-2	NH_4NO_3			
			Non-Hazardous		
This product is a blend of the following non-hazardous ingredients:			100%	10 mg/m^3 Nuisance Dust	15 mg/m^3 Nuisance Dust
Calcium Nitrate	15245-12-2	$CaNH_4(NO_3)_3$			
Ammonium Sulfate	7783-20-2	$(NH_4)_2SO_4$			
Monoammonium Phosphate	7722-76-1	$NH_4H_2PO_4$			
Sulfate of Potash	7778-80-5	K_2SO_4			
Iron Oxysulfate	--	--			
Dolomite	16389-88-1	$CaMg(CO_3)_2$			
Wax	--	--			

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: 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

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

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_3, SO_x, PO_x or CN.

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.
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.
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.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable	**Solubility in Water:**	Not available
Density:	Not available	**% Volatiles (by volume):**	Not applicable
Flashpoint:	Non-flammable	**Vapor Pressure, mm Hg:**	Not applicable
pH:	Not listed	**Reaction with Water:**	None
Appearance:	Gray and white granules.		
Extinguishing Media:	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_3, SO_x, PO_x or CN.
Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGY INFORMATION

	Oral LD50 (rat)	Dermal LD50 (rat)	Aquatic Fish 96-hour	Aquatic (other)
Monoammonium Phosphate	> 2,000 mg/kg	> 5,000 mg/kg	> 86 mg/L (rainbow trout)	none listed
Ammonium Sulfate	640-4,250 mg/kg	> 2,000 mg/kg	> 13.6-159.8 mg total NH_3/L	> 27.0 mg/total NH_3/L (daphnia)
Potassium Sulfate	6,600 mg/kg	none listed	680-3,550 mg/L	720-890 mg/L (daphnia)
Ammonium Nitrate	2217 mg/kg	> 5,000 mg/kg	95-102 mg/kg total NH3/L	124.9 mg total NH3/L(daphnia)

Inhalation 4 hour LC50: > 88,800 mg/m^3

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

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

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

MSDS Version Number: 3 (Revisions to section 2)

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Reviewed by: The Environmental Health & Safety Department
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