

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

M74050

Trade Name: Potassium Nitrate (13-0-46)  
Registration No: None

**SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

<b>Manufactured For:</b>	J.R. Simplot Company P.O. Box 70013 Boise, ID 83707	<b>Product Name:</b>	Potassium Nitrate (13-0-46)
		<b>Common Name:</b>	13-0-46
<b>Emergency Phone - Chemtrec:</b>	1-800-424-9300	<b>Chemical Type:</b>	Niter, Saltpeter

**SECTION 2 COMPOSITION INFORMATION**

Chemical Name and Synonyms	C.A.S. No.	Chemical Formula	WT%	TLV	PEL
Potassium Nitrate	7757-79-1		Hazardous 99 Non-Hazardous		
None listed					

**SECTION 3 HAZARDS IDENTIFICATION**

**Ingestion:** Ingestion may cause diarrhea, vomiting or convulsions.  
**Inhalation:** May cause respiratory discomfort.  
**Eye Contact:** May cause eye discomfort.  
**Skin Absorption:** May cause skin discomfort.  
**Skin Contact:** May cause skin discomfort.  
**Effects of Overdose:** None listed.

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Seek medical attention immediately.  
**Inhalation:** Remove from exposure. Perform artificial respiration if necessary. Seek medical attention if aggravation persists.  
**Eyes:** Flush eyes for 15 minutes. Seek medical attention if aggravation persists.  
**Skin:** Remove contaminated clothing and flush skin with water as needed. Seek medical attention if aggravation persists.

**SECTION 5 FIRE FIGHTING MEASURES**

**Extinguishing Media:** Extinguish fires with water. Do not use dry chemicals, CO<sub>2</sub>, or halogenated agents. Remove containers from fire area if possible. If this is not possible, then cool surrounding containers with water.  
**Special Fire Fighting Procedures:** None listed.  
**Unusual Fire and Explosion Hazards:** None listed.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Steps to be taken in case material is released or spilled:**  
Wear proper personal protective equipment as described in Section 8. Sweep up spilled material into suitable disposal containers. Avoid contact with combustible materials. Absorb liquid spills with sand. Do not use combustible absorbents. Dike large liquid spills.

**SECTION 7 HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**  
Store in tightly closed containers in a cool, dry well-ventilated area. Avoid storage with combustible materials. Avoid contact with skin, eyes, and clothing. Bathe and wash clothing after handling.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Ventilation Protection:** Use exhaust ventilation to avoid inhalation.  
**Respiratory Protection:** Use respirator if needed to avoid inhalation.  
**Protective Clothing:** Wear gloves, boots and work clothes to protect skin.  
**Eye Protection:** Wear protective glasses to protect eyes.  
**Other:** None listed.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>Melting Point:</b> 633°F	<b>Solubility in Water:</b> 31g in 100g H <sub>2</sub> O at 68°F
<b>Density:</b> 78 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
<b>pH:</b> Not listed.	<b>Reaction with Water:</b> Not listed.
<b>Appearance:</b> White solid.	<b>Decomposition Temperature:</b> 752°F
<b>Extinguishing Media:</b> Use media suitable for extinguishing source of fire.	

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**SECTION 10**

**STABILITY AND REACTIVITY**

**Stability (Normal Conditions):** Stable under normal conditions.  
**Incompatibility (Material to Avoid):** Potassium nitrate is an oxidizer and may burn vigorously or explode when mixed with combustible materials and ignited.  
**Hazardous Decomposition Products:** When involved in a fire, decomposes to form hazardous gaseous oxides of nitrogen.  
**Hazardous Polymerization:** Will not occur.  
**Conditions to Avoid:** Not applicable

**SECTION 11**

**TOXICOLOGY INFORMATION**

**Acute Oral Toxicity:** LD<sub>50</sub> (rat) is 1,900-3,750 mg/kg (ppm); not acutely toxic by oral exposure. (TFI Product Testing Results, OECD Guideline 425)  
**Acute Dermal Toxicity:** LD<sub>50</sub> (rat) is greater than 5,000 mg/kg (ppm); not acutely toxic by dermal exposure. (TFI Product Testing Results, OECD Guideline 402).  
**Acute Fish Toxicity:** 96-hour LC<sub>50</sub> is 1,378-3,000 mg/L (ppm); non-toxic to aquatic organisms. (TFI Product Testing Results, OECD Guideline 203)

**SECTION 12**

**ECOLOGICAL INFORMATION**

None listed.

**SECTION 13**

**DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Comply with all local, state and federal regulations.

**SECTION 14**

**TRANSPORT INFORMATION**

<b>Shipping name:</b>	Potassium Nitrate, 5.1, UN1486, P.G. III	<b>C.A.S. Number:</b>	See "Ingredients"
<b>Hazard Class:</b>	5.1 Oxidizer	<b>D.O.T. Number:</b>	UN1486
<b>Reportable Quantity (RQ):</b>	None	<b>Haz Waste No:</b>	None
<b>Labels Required:</b>	Oxidizer	<b>EPA Regist No:</b>	None
<b>Placard:</b>	Oxidizer		

**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

**MSDS Version Number: 2** (revisions to Sections 11 and 14)

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