

# MATERIAL SAFETY DATA SHEET

## Potassium Nitrate

Latest update: Jan 19,2013

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### PRODUCT IDENTIFICATION

Name: Potassium Nitrate  
Chemical Description: Potassium Nitrate; NPK: 13-0-46  
Company: Applied Organic Solutions Inc (208) 346-7194

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### PHYSICAL /CHEMICAL CHARACTERISTICS

Specific Gravity: 0.47  
pH: 6.2  
Solubility in water: 100%  
Appearance: White Powder  
Odor: Not distinctive

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### FIRE AND EXPOLSION DATA

Flash Point Non-combustible  
Flammable limits: Smolders when directly heated in flame  
Extinguishing media: Water, CO2  
Special firefighting procedures: No special methods required

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### REACTIVITY DATA

Stability Stable at normal temperatures and pressures.  
Conditions to avoid: Contact w/ strong oxidants, aluminum, diazomethane, phosphorus;  
winds.  
Incompatibility: Contact with strong oxidizing agents.  
Hazardous decomposition: Carbon monoxide, carbon dioxide.  
Hazardous polymerization: Has not been reported.

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## TOXICOLOGY

Acute oral LD/50:	More than 3750 mg/Kg
Acute intravenous LD/50:	More than 58 mg/Kg female rats
Acute intraperitoneally LD/50:	Rats 550 mg/Kg
Acute dermal LD/50:	Non skin irritant
Eye toxicity:	Non irritant

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## HEALTH EFFECTS/FIRST AID INFORMATION

### ROUTES OF ENTRY

Inhalation:	Dust can cause irritation of mucus membrane, sneezing and coughing.
Eyes:	Will irritate on contact, wash out quickly.
Ingestion:	Can cause upper GI tract disturbance.
Skin:	Brief contact with the skin is not toxic. Repeated or prolonged contact will dehydrate skin.
Signs/symptoms of exposure:	Eye irritation and or sneezing, coughing and difficulty breathing.
Carcinogenicity:	Ingredient not carcinogenic.

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## EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
Ingestion:	If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Inhalation:	Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

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## PRECAUTIONS FOR SAFE HANDLING AND USE

Respiratory protection:	If dusting occurs use approved respirator to eliminate exposure.
Ventilation:	Exhaust fan recommended in controlling any dusting.
Protective gloves/clothing:	Rubber or plastic.
Eye protection:	Splash goggles recommended where dusting is expected.
Work practices:	Use good housekeeping practices. Keep containers tightly closed.
Spills:	Avoid creating dust when cleaning up. Scoop, shovel or sweep to labeled containers for recycling/salvage if not contaminated by other material.

Waste disposal method: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Dispose of product in accordance with local and national regulation.  
Container disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.  
Precautions in storing and handling: Avoid storage in wet or moist areas.

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## **TRANSPORTATION**

Follow the precautions indicated in the Safe Handling and Use of this MSDS.

DOT Proper shipping Name: Not Applicable  
DOT Label: Not Applicable  
US DOT: No information available  
IMO: Not regulated as a hazardous material  
IATA: Not regulated as a hazardous material  
RID/ADR: Not regulated as a hazardous material  
Canadian TDG: No information available

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## **ENVIRONMENTAL HAZARDS**

No special precaution needed. Product is not a contaminant.

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## **REGULATORY INFORMATION**

European/International Regulations  
European Labeling in Accordance with EC Directives  
Hazard Symbols: Not available  
Risk Phrases: N/A  
Safety Phrases: N/A

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## **OTHER INFORMATION**

NOTES: We do not accept liability for loss, injury, or damage which may result from misuse. Data is solely for guidance purposes of safe handling and uses. We encourage users to conduct their own testing best suited for their purposes under their conditions.