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Item#0395-2637

Potassium Nitrate

DATE ISSUED: 04/10/07

SECTION 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Potassium Nitrate

Emergency Telephone Number: 1-800-424-9300 Chemtrec

SECTION 2 HAZARDOUS INGREDIENTS

<u>Component</u>	<u>Percent</u>	<u>CAS No.</u>
Potassium Nitrate	95.5 – 99.2	7757-79-1

SECTION 3 PHYSICAL DATA

Boiling Point: Decomposes @ 750°

Melting Point: 630°F

Vapor Pressure: Below 1

Vapor Density (air=1): NA

Solubility in H₂O: 31.6 g/100g @ 68°F

Evaporation Rate (H₂O=1): NA

Specific Gravity (H₂O=1): 2.11

Appearance/Odor: White to buff crystals.

SECTION 4 FIRE & EXPLOSION DATA

Flash Point: NA

Lower Flame Limit: NA

Higher Flame Limit: NA

Extinguishing Media: Non-flammable.

Special Fire Fighting Procedures: Self contained air supply to protect from oxides of nitrogen.

Unusual Fire & Explosion Hazard: Noxious fumes may form oxides of nitrogen. Potassium nitrate is an oxidizer and therefore increases the intensity of any fire the possibility of an explosion.

SECTION 5 REACTIVITY DATA

Stability: Stable in normal use and storage.

Conditions to Avoid: Fire conditions.

Incompatible Materials: Corrosive to metals.

Decomposition Products: Oxides of nitrogen.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

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SECTION 6**HEALTH HAZARD DATA**

Route(s) of Entry**Inhalation:** Irritating.**Skin:** Not hazardous.**Ingestion:** Low toxicity**Health Hazards (Acute & Chronic): Oral ingestion:** Low toxicity. Ingestion of large quantities may cause nitrate poisoning. LD50 Unknown.**Eye Contact:** May cause mild irritation and burn.**Skin Contact:** Normally not hazardous**Skin Absorption:** Not known to be absorbed through the skin.**Inhalation:** Dust may be irritating.**Carcinogenicity: NTP:** Negative**IARC:** Negative**OSHA:** Negative**Signs & Symptoms of Exposure:** Small amounts: weakness, general depression, headache and mental impairment. **Large amounts:** Dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse.**Medical Conditions Generally Aggravated by Exposure:** None known.**Teratogenicity:** Human teratogenic effects by ingestion: developmental abnormalities of the endocrine system.**Ingestion:** Give large quantities of water and induce vomiting. Seek medical attention.**Eye Contact:** Flush immediately with continuous irrigation of flowing water for at least 30 minutes. Seek medical consultation if irritation persists.**Skin Contact:** Promptly wash skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.**Inhalation:** Remove to fresh air if effects occur. Consult physician.

SECTION 7**SPILL & LEAK PROCEDURE**

Steps to be Taken in Case Material is Released or Spilled: Contain material. Pick up material and store in plastic bags away from combustibles. Do not contaminate streams and water supplies.**Waste Disposal Method:** Dispose of in non-crop area away from water supplies or in an approved landfill in accordance with state, federal and local regulations.

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Precautions to be Taken in Handling and Storing: Do not get on skin, on clothing or in eyes. Keep out of reach of children. Store in dry place. Avoid storing with oxidizable materials.

Other Precautions: Avoid breathing dust. Avoid contact with flammable materials.

SECTION VIII**CONTROL MEASURES**

Respiratory Protection: None normally needed. Use dust mask if conditions warrant.

Ventilation: Recommended to control dust.

Protective Gloves: Recommended to avoid contact.

Eye Protection: Safety glasses with side shields.

Other Protective Equipment: Body-covering clothing.

Work/Hygienic Practices: Shower after handling.