

**AERCHEM INC.**  
**320 North Walnut**  
**Bloomington, IN 47404**

**Tel: 812.334.9996      Fax: 812.334.1960      Emergency: 800.424.9300**

---

**SECTION 1: IDENTIFICATION**

**Effective Date:** 09/25/95

**Product Name:** POTASSIUM NITRATE

**Molecular Formula:**

**CAS No.:** 7757-79-1

---

**SECTION 2: HAZARDOUS INGREDIENTS:** Potassium Nitrate

---

**SECTION 3: PHYSICAL DATA**

Odor: none

Appearance: white to buff crystals

Melting point.: 630F

Boiling point: N/A

Decomposition temperature: 750F

pH (depends on quality): N/A

Solubility in water: 31.6g/100g

Specific gravity (water = 1) 2.11

Vapor density: N/A

Vapor pressure: N/A

---

**SECTION 4: FIRE AND EXPLOSION DATA**

Flash point: non-flammable

Flammable limit: LEL-N/D, UEL-N/D

Flammability: N/A

Extinguishing media: Non-flammable

Fire fighting procedures: Self contained air supply to protect from oxides of nitrogen.

Unusual fire and explosions hazards: Noxious fumes may form oxides of nitrogen. Potassium Nitrate is an oxidizer and therefore increases the intensity of any fire and the possibility of an explosion.

---

**SECTION 5: REACTIVITY DATA**

Stable     X                          Unstable                     

**Decomposition byproducts:** Oxides of nitrogen

**Incompatibilities/Condition to Avoid:** corrosive to metals

**Hazardous Polymerization:** will not occur

---

**SECTION 6: HEALTH HAZARD DATA**

**Toxicity:**

**Route of Entry:** Inhalation, ingestion.

**Permissible Exposure limits:** N/A

**TWA:** N/A

**TLV:** N/A

---

**SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES**

**Spillage:** Pick up material and store in plastic bags away from combustibles. Do not contaminate streams and water supplies.

**Disposal:** Dispose of in non-crop area away from water supplies or in an approved landfill in accordance with state, local, and federal regulations.

---

**SECTION 8: FIRST AID PROCEDURES**

**Eye Contact:** Flush immediately with continuous irrigation of flowing water for at least 30 minutes. See medical attention 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.

**Ingestion:** Give large quantities of water and induce vomiting. Seek medical attention

---

**SECTION 9: HANDLING AND STORAGE INFORMATION:** Store in dry place away from oxidizable materials.

**AERCHEM INC.**  
**320 North Walnut**  
**Bloomington, IN 47404**

**Tel: 812.334.9996      Fax: 812.334.1960      Emergency: 800.424.9300**

---

**SECTION 10: SPECIAL PROTECTION INFORMATION:**

**Ventilation:** Recommended to control dust.

**Skin Protection:** Body-covering clothing.

**Eye Protection:** Safety glasses with side shields.

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

**Other:** Shower after handling.

---

**SECTION 11: TRANSPORT INFORMATION**

**DOT Classification:** Class 5.1, UN 1488, packing group III

---

**SECTION 12: OTHER REGULATORY INFORMATION**

**Federal and State regulations:**

**WHMIS (Canada):** N/A

**DSCL (EEC):** N/A

**HMIS (USA):** N/A