



## Material Safety Data Sheet

### SECTION 1: PRODUCT NAME AND COMPANY INFORMATION

**Product Name:** Crown Tempering Salt (Potassium Nitrate)  
**Product Number:** 8235100  
**Issue Date:** May 25, 2011  
**Manufactured By:**  
**Supersedes Date:** August 26, 2009  
**Distributed By:**  
 Coburn Technologies  
 55 Gerber Road East  
 South Windsor, CT 06074  
 Telephone: (800) 262-8761

**24-Hour Emergency Contact Number (North America):** 800-255-3924  
**24-Hour Emergency Contact Number (International):** 813-248-0585

### SECTION 2: Product Classification

**Product Name:** Potassium Nitrate  
**Chemical Name:** Potassium Nitrate  
**Chemical Family:** Nitrates  
**Product Classification:**  
**Synonyms:** Chile Saltpeter  
**Formula:** KNO<sub>3</sub>  
**CAS Number:** 7757-79-1

### SECTION 3: Physical Properties

**Physical Properties:**  
**Physical Form:** Solid; Pills, pellets or crystals  
**Color:** White  
**Bulk Density:** 78 lbs/FT<sup>3</sup>  
**Melting Point:** 633° F  
**Solubility in Water:** 31 g/100 g at 68° F  
**Vapor Pressure:** N/A

Potassium Nitrate may cause skin, eye and respiratory irritation. Ingestion may cause diarrhea, vomiting or convulsions. Potassium Nitrate is an oxidizer. It may support burning or explosion when mixed with combustible materials and ignited.

### SECTION 4: Hazardous Ingredients

#### IV: Hazardous Ingredients:

Ingredient	Number	Concentration (%)	Exposure Limits
Potassium Nitrate	7757-79-1	99% - 100%	TLV (ACGIH) not established PEL (OSHA) not established

**SECTION 5: Fire and Explosion Data:**

**Fire and Explosion Data:**

**Flash Point:** Not Determined

**Explosion Limit:** Not Determined

**Flammable Limits:** LEL: N/A, UEL: N/A

**Extinguishing Media:** Extinguish fires with water. Do not use dry chemicals, CO<sub>2</sub>, or Halogenated agents.

**Special Fire Fighting Procedures:**

Remove containers from fire area if possible. If this is not possible then cool surrounding containers with water. Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire /Explosion Hazard:**

This material is a strong Oxidizer. Potassium Nitrate may support burning or explosion when mixed with combustible materials and ignited.

**SECTION 6: Human Health Data:**

**Human Health Data:**

**Route(s) of Entry:** Eyes, skin, inhalation, ingestion

**Acute Effects:** May cause eye, skin and respiratory irritation. Ingestion may cause diarrhea, vomiting or convulsions.

**Carcinogenicity:** IARC – not listed; NTP – not listed; OSHA – not listed

**SECTION 7: Emergency and First Aid Procedures**

**Emergency and First Aid Procedures:**

**First Aid for Eyes:** Flush eyes with fresh water for 15 minutes. Call a physician

**First Aid for Skin:** Flush thoroughly with mild soap and water.

**First Aid for Inhalation:** Remove victim to fresh air. If victim is not breathing, perform CPR. Call a physician.

**First Aid for Ingestion:** Seek medical attention immediately.

**SECTION 8: Employee Protection Recommendations:**

**Employee Protection Recommendations:**

**Eye Protection:** Goggles or safety glasses with side shields.

**Skin Protection:** Impervious – butyl or rubber gloves, impervious boots and coveralls.

**Respiratory Requirements:** NIOSAH/MAHA approved dust type respirator.

**Ventilation:** Mechanical (General)

**Additional Protective Measures:**

Wash skin and clothing after contact. Eye wash and safety showers should be near work area.

**SECTION 9: Reactivity Data:**

**Reactivity Data:**

**Stability:** Stable

**Incompatibilities:** Avoid contact with reducing agents and flammable or combustible materials.

**Decomposition Products:** Produces oxides of nitrogen and nitric acid.

**SECTION 10: Spill and Leak Procedure:**

**Spill and Leak Procedure:**

**Spill or Leak Procedures:** Wear proper personal protection equipment. 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.

**Waste Disposal Method:** Disposal should be by local contractor under state and local regulations.

**SECTION 11: Special Precautions and Storage Data:**

**Special Precautions and Storage Data:**

**Storage Temperature Min/Max** Ambient/Ambient

**Handling/Storage Precautions:** 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 12: Shipping Information:**

**Shipping Information:**

**Proper Shipping Name:** Potassium Nitrate **Hazard Class or Division:** 5.1

**UN / NA Number:** UN1486 **Packaging Group:** III

**DOT Product RQ lbs. (kg):** None **Hazard Label(s):** Oxidizer

**Hazard Placard:** Oxidizer **Subsidiary Placard:** None

**SECTION 13: Toxicity Data:**

**XIII. Toxicity Data:**

**Oral LD50:** 43750 mg/kg (Rat)

This material is not known to be carcinogenic or mutagenic.

**SECTION 14: Other Information:**

**The information herein is given in good faith, but no warranty, express or implied, is made.**

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