



HUMMEL CROTON INC.

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MSDS

POTASSIUM NITRATE

Section I. Chemical Product and Company Identification

<i>Chemical Name:</i>	Potassium Nitrate	<i>Supplier:</i>	HUMMEL CROTON INC.
<i>Synonym:</i>	Nitric Acid Potassium Salt; Salt Peter		10 Harmich Road
<i>Chemical Formula:</i>	KNO ₃		South Painfield, NJ 07080
<i>CAS Number:</i>	7757-79-1	<i>Tel #:</i>	(908)-754-1800

**In case of Emergency Call: Chemtrec® (800)-424-9300(U.S.)
(703)-527-3887 (International)**

Section II. Composition and information on Ingredients

<i>Chemical Name</i>	<i>CAS Number</i>	<i>% Percent</i>	<i>OSHA</i>	<i>ACGIH</i>
Potassium Nitrate	7757-79-1	100%	Not Established	Not Established

Since no exposure limit have been established for Potassium Nitrate by OSHA & ACGIH, we recommend that our product should be treated as a nuisance dust 15 mg/m³.

Section III. Hazards Identification

Acute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Carcinogenicity: This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

Section IV. First Aid Measures

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

Section V. Fire and Explosion Date

<i>Flamability:</i>	Non-Flamable	<i>Auto-Ignition:</i>	Not Applicable
<i>Flash Point:</i>	Not Applicable	<i>Flamable Limits:</i>	Not Applicable
<i>Extinguishing Media:</i>	Dry Chemical; Carbon Dioxide; Halon; Water		
<i>Fire Fighting Procedures:</i>	Firefighters should wear full protective clothing and self-contained breathing apparatus. Use water spray from a safe distance to cool fire exposed containers. This material is an oxidizing agent and can result in vigorous reactions with oxidizable materials (reducing agents)		

increasing the flammability of adjacent combustible materials in a fire situation.

Fire/explosion Hazards: When exposed to excess heat or flame decomposes to potassium oxide and oxygen (Merk Index, 11th Ed.pg.1215)

Section VI. Accidental Release Measures

Spill or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section VII. Handling and Storage

Storage Temperatures: Ambient

Shelf Life: Unlimited in tightly closed container.

Special Sensitivity: None

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and face before eating, drinking or using tobacco products.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Protective Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

Physical Form: Solid Crystals or Powder

Color: White

Odor: Odorless

Molecular Weight: 101.11

Boiling Point: Decomposes at 752 F (400C)

Melting/freezing Point: 631 F (333 C)

Solubility In Water: 36 gm/100 ml water

Specific Gravity: 2.1

Section X. Stability And Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Polymerization: Will Not occur

Incompatibilities: Heavy metals, phosphites, organic compounds, carbonaceous material, strong acids.

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Decomposes at 752 F(400 C)

Decomposition Products: Oxides of Potassium

Section XI. Toxicological Information

RTECS Number: TT3700000
Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: Orl-Rat LD50: 3750 mg/kg
Orl-Rbt LD50: 1901 mg/kg
Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.
Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Section XII. Ecological Information

Ecotoxicity: Not available at this time.

Section XIII. Spill and Leak Procedures

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.
Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

Proper Shipping Name: Potassium Nitrate
UN Number: 1486 *Class:* 5.1
P.G.: III *DOT Label:* Oxidizer

Section XV. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List
California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.
SARA Title III: Section 302 Extremely Hazardous Substances: None
Section 311/312 Hazard Categories: None
Section 313 Toxic Chemicals: None

Section XVI. Other Information

Prepared By: Mark Dugan
Date: Nov.13,2002
Reason for Issue: Up Date to New Format

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