Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI\(^1\) format to the GHS\(^2\) format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond. ANSI labels: pictograms, if present, will be inside individual black boxes.

2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in "GHS."

---

**Label in ANSI Format**

---

C\(_{10}\)H\(_{14}\)O\(_2\)  F.W. 212.24

BE159

SIZ SY

Benzy1 Benzoxate

(Benzyl Acet Phenylethyl Esters)

U.S.P.

CAS 120-01-4

SPECTRUM CHEMICAL MFG. CORP.

CORPORATE OFFICES

14422 South San Pedro Street

Gardena, California 90248

PHONE 310.516.8000

FAX 310.516.9843

AN ISO 9901:2008 REGISTERED COMPANY

www.spectrumchemical.com
Sincerely,

Regulatory Affairs
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Personal Protective Equipment

- Health Hazard: 2
- Fire Hazard: 0
- Reactivity: 0

---

Product code: P1843
Product Name: POTASSIUM NITRATE, CRYSTAL, USP
Chemical Name: No information available
Synonyms: Nitric acid, potassium salt, Saltpeter
CAS #: 7757-79-1
RTECS #: TT3700000
Formula: KNO3
CI#: Not available
Supplier: Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000
Order Online At: https://www.spectrumchemical.com
Emergency Telephone Number: CHEMTREC: 1-800-424-9300
Contact Person: Regina Wachenheim (East Coast)
Contact Person: Martin LaBenz (West Coast)

2. HAZARDS IDENTIFICATION

See Section 8.
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER!
Oxidizer
Contact with combustible material may cause fire
WARNING!
Irritating to skin
Irritating to eyes
Irritating to respiratory system

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Ingestion. Inhalation.

Acute Potential Health Effects:

Skin Contact:
Causes skin irritation.

Eye Contact:
Causes serious eye irritation.

Inhalation:
Irritating to respiratory system.

Ingestion:
May cause central nervous system effects. May affect the blood. May cause methemoglobinemia.

Chronic Potential Health Effects:

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Group 2A Probably carcinogenic to humans by IARC (listed under Nitrate or nitrite (ingested)) \ under conditions that result in endogenous nitrosation</td>
</tr>
</tbody>
</table>

Target Organs:
Blood. Methemoglobin formation.

Mutagenic Effects:
No information available

Teratogenic Effects:
No information available

Aggravated Medical Conditions:
No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

Product code: P1843
Product name: POTASSIUM NITRATE, CRYSTAL, USP
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>7757-79-1</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F): No information available.

Flash Point Tested according to: Not available

Lower Explosion Limit (%): No information available

Upper Explosion Limit (%): No information available

Autoignition Temperature (°C/°F): No information available

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.


Hazardous Combustion Products: No information available.

Specific hazards: Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.) The product is not flammable, but it may cause fire when in contact with other material Contact with combustible or organic materials may cause fire Will accelerate burning when involved in a fire Container explosion may occur under fire conditions or when heated
Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific Methods: For large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. Do not get water inside containers. DO NOT use combustible materials such as sawdust.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

Environmental Precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods for Cleaning Up:
Shovel into suitable container for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from combustible material. Do not breathe vapours/dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:
Hygroscopic. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Do not store near combustible materials. Store away from incompatible materials.

Incompatible Materials:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Product code: P1843 Product name: POTASSIUM NITRATE, CRYSTAL, USP
Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Eye protection: Goggles.

Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.

Respiratory protection: Wear respirator with dust filter.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate - 7757-79-1</td>
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<td>None</td>
<td>None</td>
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Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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</thead>
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<tr>
<td>Potassium Nitrate 7757-79-1</td>
<td>None</td>
<td>None</td>
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Australia and Mexico

<table>
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<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate 7757-79-1</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid.

**Appearance:** Crystals. Crystalline. Granular.

**Color:** White.

**Odor:** Odorless.

**Taste:** Cooling. Saline. Pungent.

**Molecular/Formula weight:** 101.10

**Flash point (°C):** No data available

**Lower Explosion Limit (%):** No information available

**Upper Explosion Limit (%):** No information available

**Autoignition Temperature (°C/°F):** No information available

**Melting point/range (°C/°F):** 334-337 °C/633.2-638.6 °F

**Boiling point/range (°C/°F):** No information available

**pH:** No information available

**Specific gravity:** No information available

**Density (g/cm3):** 2.109 @ 25 °C

**Partition coefficient (n-octanol/water):** No information available

**Miscibility:** No information available

**Evaporation rate:** No information available

**Vapor pressure @ 20°C (kPa):** No information available

**Upper Explosion Limit (%):** No information available

**Odor threshold (ppm):** No information available

**VOC content (g/L):** No information available

**Solubility:** Soluble in Glycerol

Soluble in Water

Insoluble in Ether

Solubility in Water: 1g/2.8 ml water at 25 °C; 1 g/0.5 ml boiling water

**Physical state:** Solid.

**Autoignition Temperature (°C/°F):** No information available

**Melting point/range (°C/°F):** 334-337 °C/633.2-638.6 °F

**Boiling point/range (°C/°F):** No information available

**pH:** No information available

**Specific gravity:** No information available

**Density (g/cm3):** 2.109 @ 25 °C

**Partition coefficient (n-octanol/water):** No information available

**Miscibility:** No information available

**Evaporation rate:** No information available

**Vapor pressure @ 20°C (kPa):** No information available

**Upper Explosion Limit (%):** No information available

**Odor threshold (ppm):** No information available

**VOC content (g/L):** No information available

**Solubility:** Soluble in Glycerol

Soluble in Water

Insoluble in Ether

Solubility in Water: 1g/2.8 ml water at 25 °C; 1 g/0.5 ml boiling water

10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions

**Conditions to avoid:** Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Exposure to moist air. Exposure to moisture. Incompatible materials.


**Hazardous decomposition products:** Nitrogen oxides (NOx). Oxides of potassium.
Possibility of Hazardous Reactions:

Potassium nitrate reacts vigorously when heated with sulfides of the alkaline earth group including barium sulfide and calcium sulfide. Also incompatible with boron, and finely powdered metals, chromium nitride, aluminum, titanium, antimony, germanium, zinc, zirconium, calcium disilicide, metal sulfides, carbon, sulfur, phosphorus, phosphides, sodium phosphinate, sodium thiosulfate, citric acid, tin chloride, sodium acetate, thorium carbide. A mixture of potassium nitrate and antimony trisulfide explodes when heated. When copper phosphide is mixed with potassium nitrate and heated, it explodes. Mixture of germanium nitrate and potassium nitrate explodes when heated. A mixture of potassium nitrate, sulfur, arsenic trisulfide is known as a pyrotechnic formulation. When titanium is heated with potassium nitrate, an explosion occurs. A mixture of potassium nitrate and titanium disulfide explodes when heated. When potassium nitrate is mixed with boron, laminac, and trichloroethylene an explosion can occur. Powdered zinc and potassium explode if heated. Arsenic disulfide forms explosive mixtures when mixed with potassium nitrate. Charcoal (powdered carbon) and potassium nitrate make a pyrotechnic mixture. Contact at 290 C causes a vigorous combustion and the mixture explodes on heating. A mixture of potassium nitrate and sodium acetate may cause an explosion. A mixture of potassium nitrate and sodium hypophosphite constitutes a powerful explosive. Mixtures of potassium nitrate with sodium phosphinate and sodium thiosulfate are explosive. In contact with easily oxidizable substances, it may react rapidly enough to cause ignition, violent combustion, or explosion. It increases the flammability of any combustible substance. A mixture of potassium nitrate and calcium silicide is a readily ignited primer and burns at a very high temperature. Contact of the carbide with molten potassium nitrate causes incandescence. When heated to decomposition it emits very toxic fumes.

Polymerization:

Hazardous polymerisation does not occur

Corrosivity:

No information available

Special Remarks on Corrosivity:

No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Potassium Nitrate - 7757-79-1

LD50/oral/rat = 3015 mg/kg Oral LD50 Rat (European Chemicals Bureau IUCLID dataset)
3750 mg/kg (RTECS)
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 1901 mg/kg Oral LD50 Rabbit (RTECS and European Chemicals Bureau IUCLID dataset)

Product Information

Product code: P1843
Product name: POTASSIUM NITRATE, CRYSTAL, USP
Local Effects

Skin irritation: May cause skin irritation in susceptible persons

Eye irritation: May cause eye irritation

Inhalation: Irritating to respiratory system. Breathing Potassium Nitrate can irritate the nose and throat causing sneezing and coughing. High levels can interfere with the ability of the blood to carry oxygen causing headache, dizziness and a blue color to the skin and lips (cyanosis), and other symptoms of methemoglobinemia (see other symptoms under ingestion). Higher levels can cause trouble breathing, circulatory collapse and even death.

Ingestion: Ingestion of large quantities may cause violent gastroenteritis with nausea, vomiting, severe abdominal pain. It may also cause colic and diarrhea. Nitrites themselves are not toxic in the amounts we normally encounter. The acute toxicity of nitrates is a result of their conversion into nitrites within the body. The nitrite acts in the blood to oxidize hemoglobin to methemoglobin which does not perform as an oxygen carrier to tissues causing Methemoglobinemia. Symptoms may include vertigo, muscular weakness, syncope, irregular pulse, convulsions, anoxia, coma, fall in blood pressure, roaring sound in the ears, a persistent throbbing headache, generalized tingling sensation, heart palpitations, visual disturbances caused by increased intraocular tension and intracranial pressure, flushed and perspiring skin, which is later cold and cyanotic. Circulatory collapse and death may occur. Metabolic acidosis may also develop in cases of severe methemoglobinemia.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity: Prolonged exposure to small amounts may produce anemia, methemoglobinemia with attendant cyanosis and anoxia, hyperpnea and later dyspnea, and nephritis.

Carcinogenic effects: Probably carcinogenic to humans. IARC group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that result in endogenous nitrosation.

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not listed</td>
<td>Group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that result in endogenous nitrosation</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects: No information available

Product code: P1843  Product name: POTASSIUM NITRATE, CRYSTAL, USP
Reproductive Effects: There is limited evidence in animals that Potassium Nitrate may damage the developing fetus. No information on developmental toxicity effects on humans was found.

Teratogenic Effects: No information available

Target Organs: Blood. Methemoglobin formation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and the ecotoxicology of similar products

Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

Potassium Nitrate - 7757-79-1

Freshwater Fish Species Data: LC50 - Gambusia affinis (mosquito fish) - 129 mg/l - 24 h
LC50 - Gambusia affinis (mosquito fish) - 224 mg/l - 48 h
LC50 - Gambusia affinis (mosquito fish) - 162 mg/l - 96 h
LC50 - Poecilia reticulata - 1927 mg/l - 24 h
LC50 - Poecilia reticulata - 1588 mg/l - 48 h
LC50 - Poecilia reticulata - 1436 mg/l - 72 h
LC50 - Poecilia reticulata - 1378 mg/l - 96 h

Water Flea Data: EC50 - Daphnia magna - 490 mg/l - 48 h
EC50 - Daphnia magna - 226 mg/l - 72 h

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN1486
Proper Shipping Name: Potassium nitrate
Hazard Class: 5.1
Packing Group: III
Subsidiary Risk: Not applicable
Marine Pollutant: No data available

Product code: P1843
Product name: POTASSIUM NITRATE, CRYSTAL, USP
| ERG No: | 140 |
| DOT RQ (lbs): | No information available |

**TDG (Canada)**

| UN-No: | UN1486 |
| Proper Shipping Name: | Potassium nitrate |
| Hazard Class: | 5.1 |
| Packing Group: | III |
| Subsidiary Risk: | No information available |
| Description: | No information available |

**ADR**

| UN-No: | UN1486 |
| Proper Shipping Name: | Potassium nitrate |
| Hazard Class: | 5.1 |
| Packing Group: | III |
| Subsidiary Risk: | No information available |
| Classification Code: | No information available |
| Description: | No information available |
| CEFIC Tremcard No: | No information available |

**IMO / IMDG**

| UN-No: | UN1486 |
| Proper Shipping Name: | Potassium nitrate |
| Hazard Class: | 5.1 |
| Packing Group: | III |
| Subsidiary Risk: | No information available |
| Description: | No information available |
| IMDG Page: | No information available |
| Marine Pollutant | No information available |
| EMS: | F-A |
| MFAG: | No information available |
| Maximum Quantity: | No information available |

**RID**

| UN-No: | UN1486 |
| Proper Shipping Name: | Potassium nitrate |
| Hazard Class: | 5.1 |
| Packing Group: | III |
| Subsidiary Risk: | 5.1 |
| Classification Code: | No information available |
| Description: | No information available |

**ICAO**

| UN-No: | UN1486 |
| Proper Shipping Name: | Potassium nitrate |
| Hazard Class: | 5.1 |
| Packing Group: | III |
| Subsidiary Risk: | No information available |
| Description: | No information available |

**IATA**

| UN-No: | UN1486 |
| Proper Shipping Name: | Potassium nitrate |
| Hazard Class: | 5.1 |
| Packing Group: | III |
| Subsidiary Risk: | No information available |
| ERG Code: | 5L |

**Product code:** P1843  **Product name:** POTASSIUM NITRATE, CRYSTAL, USP
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Present</td>
<td>Present KE-29163</td>
<td>Present (1)-449</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present 231-818-8</td>
</tr>
</tbody>
</table>

U.S. Regulations

Potassium Nitrate

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: Present
Pennsylvania RTK: Present
RI RTK - Hazardous Substances List: Present


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
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</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>None</td>
<td>None</td>
<td>None</td>
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U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
C Oxidizing materials

Potassium Nitrate

C

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Product code: P1843
Product name: POTASSIUM NITRATE, CRYSTAL, USP
Potassium Nitrate

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDNL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Present</td>
<td>Not Listed</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

**R-phrase(s)**
R 8 - Contact with combustible material may cause fire.
R36/37/38 - Irritating to eyes, respiratory system and skin.

**S-phrase(s)**
S17 - Keep away from combustible material.
S37 - Wear suitable gloves.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
O - Oxidising.
Xi - Irritant.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

**Preparation Date:** 21-Mar-2014

**Reason for revision:** Not applicable

**Prepared by:** Sonia Owen

**Literature reference:** No information available

**Product code:** P1843

**Product name:** POTASSIUM NITRATE, CRYSTAL, USP
All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: P1843  Product name: POTASSIUM NITRATE, CRYSTAL, USP
SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier
Product code: P1843
Product Name: POTASSIUM NITRATE, CRYSTAL, USP

Other means of identification
Synonyms:
Nitric acid, potassium salt
Salt peter
CAS #: 7757-79-1
RTECS #: TT3700000
CI#: Not available

Recommended use of the chemical and restrictions on use
Uses advised against: No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Category</th>
<th>Skin corrosion/irritation</th>
<th>Serious eye damage/eye irritation</th>
<th>Specific target organ toxicity (single exposure)</th>
<th>Oxidizing solids</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 2</td>
<td>Category 2A</td>
<td>Category 3</td>
<td>Category 3</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Product code: P1843  Product name: POTASSIUM NITRATE, CRYSTAL, USP
Warning

Hazard statements
Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation
May intensify fire; oxidizer

Not Applicable

Other hazards
May be harmful if swallowed

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep/Store away from clothing/ .? /combustible materials
Take any precaution to avoid mixing with combustibles .?

Precautionary Statements - Response
Specific treatment (see .? on this label)
In case of fire:. Use water to extinguish. Do not use dry chemicals or foams. CO2 or Halon may provide limited control.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
</table>

Product code: P1843
Product name: POTASSIUM NITRATE, CRYSTAL, USP
3. COMPOSITION/INFORMATION ON INGREDIENTS

| Potassium Nitrate | 7757-79-1 | 100 | * |

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Irritating to eyes, respiratory system and skin. May cause methemoglobinemia and cyanosis. May cause metabolic acidosis. Dyspnea (Difficulty breathing and shortness of breath).

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.


Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated.

Special Protective Actions for Firefighters
Specific Methods: For large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. Do not get water inside containers. DO NOT use combustible materials such as sawdust.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from combustible material. Do not breathe vapours/dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Product code: P1843 Product name: POTASSIUM NITRATE, CRYSTAL, USP
Components | OSHA | NIOSH | ACGIH | AIHA WHEEL |
--- | --- | --- | --- | --- |
Potassium Nitrate - 7757-79-1 | None | None | None | None |

Canada

| Components | Alberta | British Columbia | Ontario | Quebec |
--- | --- | --- | --- | --- |
Potassium Nitrate - 7757-79-1 | None | None | None | None |

Australia and Mexico

| Components | Australia | Mexico |
--- | --- | --- |
Potassium Nitrate 7757-79-1 | None | None |

Appropriate engineering controls

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Individual protection measures, such as personal protective equipment**

**Personal Protective Equipment**

- **Eye protection:** Goggles.
- **Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.
- **Respiratory protection:** Wear respirator with dust filter..
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES
# 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Solid</td>
</tr>
<tr>
<td>Odor:</td>
<td>Odorless</td>
</tr>
<tr>
<td>Molecular/Formula weight:</td>
<td>101.10</td>
</tr>
<tr>
<td>Density (g/cm³):</td>
<td>2.109 @ 25 °C</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
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</tr>
<tr>
<td>Moisture content (g/L):</td>
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</tr>
<tr>
<td>Odor threshold (ppm):</td>
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<tr>
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<td>Formula:</td>
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<td>Flash point (°C):</td>
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</tr>
<tr>
<td>Decomposition temperature(°C/°F):</td>
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<tr>
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<tr>
<td>pH:</td>
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<td>Melting point/range(°C/°F):</td>
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<tr>
<td>Autoignition Temperature (°C/°F):</td>
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</tr>
<tr>
<td>Evaporation rate:</td>
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</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
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</tr>
<tr>
<td>Solubility:</td>
<td>Soluble in Glycerol</td>
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<tr>
<td>Solubility in Water:</td>
<td>Soluble in Water</td>
</tr>
<tr>
<td>Insoluble in Ether:</td>
<td>Insoluble in Ether</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>1g/2.8 ml water at 25 °C; 1g/0.5 ml boiling water</td>
</tr>
</tbody>
</table>

# 10. STABILITY AND REACTIVITY

Reactivity
10. STABILITY AND REACTIVITY

Potassium nitrate reacts vigorously when heated with sulfides of the alkaline earth group including barium sulfide and calcium sulfide. Also incompatible with boron, and finely powdered metals, chromium nitride, aluminum, titanium, antimony, germanium, zinc, zirconium, calcium disilicide, metal sulfides, carbon, sulfur, phosphorus, phosphides, sodium phosphinate, sodium thiosulfate, citric acid, tin chloride, sodium acetate, thorium carbide.

A mixture of potassium nitrate and antimony trisulfide explodes when heated.
When copper phosphide is mixed with potassium nitrate and heated, it explodes.

Mixture of germanium nitrate and potassium nitrate explodes when heated.
A mixture of potassium nitrate, sulfur, arsenic trisulfide is known as a pyrotechnic formulation.

When titanium is heated with potassium nitrate, an explosion occurs.
A mixture of potassium nitrate and titanium disulfide explodes when heated.

When potassium nitrate is mixed with boron, laminac, and trichloroethylene an explosion can occur.

Powdered zinc and potassium explode if heated.

Arsenic disulfide forms explosive mixtures when mixed with potassium nitrate.
Charcoal (powdered carbon) and potassium nitrate make a pyrotechnic mixture. Contact at 290 C causes a vigorous combustion and the mixture explodes on heating.

A mixture of potassium nitrate and sodium acetate may cause an explosion.
A mixture of potassium nitrate and sodium hypophosphite constitutes a powerful explosive.
Mixtures of potassium nitrate with sodium phosphinate and sodium thiosulfate are explosive.
In contact with easily oxidizable substances, it may react rapidly enough to cause ignition, violent combustion, or explosion.
It increases the flammability of any combustible substance.

A mixture of potassium nitrate and calcium silicide is a readily ignited primer and burns at a very high temperature.
Contact of the carbide with molten potassium nitrate causes incandescence. When heated to decomposition it emits very toxic fumes.

---

**Chemical stability**

**Stability:** Stable at normal conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Exposure to moist air. Exposure to moisture. Incompatible materials.


**Hazardous decomposition products:** Nitrogen oxides (NOx). Oxides of potassium.

**Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

---

11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Principal Routes of Exposure:**
Ingestion. Inhalation.

**Acute Toxicity**

**Component Information**

*Potassium Nitrate - 7757-79-1*

\[
\text{LD50/oral/rat} = 3015 \text{ mg/kg Oral} \quad \text{LD50 Rat (European Chemicals Bureau IUCLID dataset)}
\]

\[
3750 \text{ mg/kg (RTECS)}
\]

\[
\text{LD50/oral/mouse} = \text{No information available}
\]
Product Information

LD50/oral/rat = No information available
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = 1901 mg/kg Oral LD50 Rabbit (RTECS and European Chemicals Bureau IUCLID dataset)

Product code: P1843
Product name: POTASSIUM NITRATE, CRYSTAL, USP

Symptoms

Skin Contact: Causes skin irritation.
Eye Contact: Causes serious eye irritation.
Inhalation

Irritating to respiratory system. Breathing Potassium Nitrate can irritate the nose and throat causing sneezing and coughing. High levels can interfere with the ability of the blood to carry oxygen causing headache, dizziness and a blue color to the skin and lips (cyanosis), and other symptoms of methemoglobinemia (see other symptoms under ingestion). Higher levels can cause trouble breathing, circulatory collapse and even death.

Ingestion

Ingestion of large quantities may cause violent gastroenteritis with nausea, vomiting, severe abdominal pain. It may also cause colic and diarrhea. Nitrates themselves are not toxic in the amounts we normally encounter. The acute toxicity of nitrates is a result of their conversion into nitrites within the body. The nitrite acts in the blood to oxidize hemoglobin to methemoglobin which does not perform as an oxygen carrier to tissues causing Methemoglobinemia. Symptoms may include vertigo, muscular weakness, syncope, irregular pulse, convulsions, anoxia, coma, fall in blood pressure, roaring sound in the ears, a persistant throbbing headache, generalized tingling sensation, heart palpitations, visual disturbances caused by increased intraocular tension and intracranial pressure, flushed and perspiring skin, which is later cold and cyanotic. Circulatory collapse and death may occur. Metabolic acidosis may also develop in cases of severe methemoglobinemia.

Aspiration hazard No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity**

Prolonged exposure to small amounts may produce anemia, methemoglobinemia with attendant cyanosis and anoxia, hyperpnea and later dyspnea, and nephritis.

**Sensitization:**

No information available

**Mutagenic Effects:**

No information available

**Carcinogenic effects:**

Probably carcinogenic to humans. IARC group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that result in endogenous nitrosation.

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not listed</td>
<td>Group 2A - Listed under Nitrate or Nitrite (ingested) under conditions that result in endogenous nitrosation</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**IARC (International Agency for Research on Cancer)**

**Reproductive toxicity**

No data is available

**Reproductive Effects:**

No information available

**Developmental Effects:**

There is limited evidence in animals that Potassium Nitrate may damage the developing fetus. No information on developmental toxicity effects on humans was found.

**Teratogenic Effects:**

No information available

**Specific Target Organ Toxicity**

<table>
<thead>
<tr>
<th>STOT - single exposure</th>
<th>Target Organs:</th>
</tr>
</thead>
<tbody>
<tr>
<td>respiratory system</td>
<td>Blood. Methemoglobin formation.</td>
</tr>
</tbody>
</table>

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:**

Aquatic environment.

**Potassium Nitrate - 7757-79-1**

**Freshwater Fish Species Data:**

- LC50 - Gambusia affinis (mosquito fish) - 129 mg/l - 24 h
- LC50 - Gambusia affinis (mosquito fish) - 224 mg/l - 48 h
- LC50 - Gambusia affinis (mosquito fish) - 162 mg/l - 96 h
- LC50 - Poecilia reticulata - 1927 mg/l - 24 h
- LC50 - Poecilia reticulata - 1588 mg/l - 48 h
- LC50 - Poecilia reticulata - 1436 mg/l - 72 h
- LC50 - Poecilia reticulata - 1378 mg/l - 96 h
Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
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<td>None</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

- UN-No: UN1486
- Proper Shipping Name: Potassium nitrate
- Hazard Class: 5.1
- Subsidiary Risk: Not applicable
- Packing Group: III
- Marine Pollutant: No data available
- ERG No: 140
- DOT RQ (lbs): No information available

TDG (Canada)

- UN-No: UN1486
- Proper Shipping Name: Potassium nitrate
- Hazard Class: 5.1
- Subsidiary Risk: No information available
- Packing Group: III
- Description: No information available

ADR

- UN-No: UN1486
- Proper Shipping Name: Potassium nitrate
- Hazard Class: 5.1
- Packing Group: III
- Subsidiary Risk: No information available
- Classification Code: No information available
- Description: No information available

Product code: P1843  Product name: POTASSIUM NITRATE, CRYSTAL, USP
14. TRANSPORT INFORMATION

CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN1486
Proper Shipping Name: Potassium nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN1486
Proper Shipping Name: Potassium nitrate
Hazard Class: 5.1
Subsidiary Risk: 5.1
Packing Group: III
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN1486
Proper Shipping Name: Potassium nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA
UN-No: UN1486
Proper Shipping Name: Potassium nitrate
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 5L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (PICCS)</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Present</td>
<td>Present KE-29163</td>
<td>Present</td>
<td>Present (1)-449</td>
<td>Present</td>
<td>Present</td>
<td>Present 231-818-8</td>
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</table>

U.S. Regulations

Potassium Nitrate
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: Present
Pennsylvania RTK: Present
RI RTK - Hazardous Substances List: Present

Product code: P1843  Product name: POTASSIUM NITRATE, CRYSTAL, USP
Potassium Nitrate


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
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<td>Not Listed</td>
<td>Not Listed</td>
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</tr>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
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</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
C Oxidizing materials

Potassium Nitrate
C

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
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<td>Potassium Nitrate</td>
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</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting</th>
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</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R8 - Contact with combustible material may cause fire.
R36/37/38 - Irritating to eyes, respiratory system and skin.

Product code: P1843   Product name: POTASSIUM NITRATE, CRYSTAL, USP
**S -phrase(s)**
S17 - Keep away from combustible material.
S37 - Wear suitable gloves.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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</thead>
<tbody>
<tr>
<td>Potassium Nitrate</td>
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<td>No information</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
O - Oxidising.
Xi - Irritant.

16. OTHER INFORMATION
Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Material Safety Data Sheet