



MATERIAL SAFETY DATA SHEET

8808504
 9808506 9808508
 9808604 9808606
 9808608 9808703
 5100 W. Henrietta Rd.
 West Henrietta, NY 14586
 TEL: (866) 260-0501
 MSDS No.
 Effective Date: December 1, 2005

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

| | | | | | | | | | | |
|-------------------|---------------------------|---------------|----------|--|-----------|----------|--------------|---|------------|---|
| Product | Potassium Nitrate | 416-984-3000 | | <table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Flammability</td><td>0</td></tr> <tr><td>Reactivity</td><td>3</td></tr> </table> | Health | 1 | Flammability | 0 | Reactivity | 3 |
| Health | 1 | | | | | | | | | |
| Flammability | 0 | | | | | | | | | |
| Reactivity | 3 | | | | | | | | | |
| Chemical Synonyms | Potash Nitrate, Saltpeter | | | | | | | | | |
| Formula | KNO ₃ | HAZARD RATING | | | | | | | | |
| CAS No. | 7757-79-1 | Minimal 0 | Slight 1 | Moderate 2 | Serious 3 | Severe 4 | | | | |

SECTION II DANGEROUS INGREDIENTS

| Name | % | TLV Units |
|----------------------------------|------|-----------|
| Potassium nitrate | 100% | N/A |
| WARNING! STRONG OXIDIZER! | | |

SECTION III PHYSICAL DATA

| | | | |
|------------------------|-----------------------------|---|--------------|
| Melting Point (°C) | 334°C | Specific Gravity (H ₂ O = 1) | 2.109 @ 16°C |
| Boiling Point (°C) | Decomposes 400°C. | Percent Volatile by Volume (%) | N/A |
| Vapor Pressure (mm Hg) | Negligible. | Evaporation Rate (=1) | N/A |
| Vapor Density (Air=1) | 3.5 | | |
| Solubility in Water | 35.5 g/100 mL water @ 20°C. | | |
| Appearance & Odor | White crystals; no odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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|------------------------------------|--|-------------------------------------|-----|-------|-------|
| Flash point | Non-flammable. | Flammable Limits in Air % by Volume | N/A | Lower | Upper |
| Firefighting Procedures | Oxidizing material. DO NOT use water jet. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion. Use flooding quantities of water. Avoid contact with organic materials. | | | | |
| Flammability and Explosion Hazards | | | | | |

Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume. In contact with easily oxidizable materials, this chemical may react rapidly enough to cause ignition, violent combustion or explosion.

TDG Class 5.1 Oxidizing substance. UN1486

SECTION V REACTIVITY DATA PP0650

| | | | |
|----------------------------------|---------------------------------------|---|---|
| Chemical Stability | Yes | X | If no, under what conditions? |
| | No | | |
| Incompatible with Other products | Yes | X | May react or be incompatible with reducing agents, combustible materials. |
| | No | | |
| Hazardous Decomposition Products | Some metallic oxides. | | |
| Reactive under what conditions | No specific information is available. | | |

SECTION VI TOXICOLOGICAL PROPERTIES

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|---------------------------|--|
| Route of Entry | Ingestion. |
| TLV | N/A |
| Toxicity for animals | Acute oral toxicity (LD50): 3750 mg/kg (Rat). |
| Chronic effects on humans | Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Red blood cells. |
| Acute effects on humans | Harmful if swallowed. Causes irritation. |

SECTION VII PREVENTIVE MEASURES

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| Waste Disposal | Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities. |
| Storage | Keep container in a cool, well ventilated place. Keep container tightly closed. Keep away from heat, incompatible materials, sources of ignition and open flames. |
| Precautions | Avoid contact with skin and eyes. Do not breathe dust. Use with adequate ventilation. Do not ingest. If ingested, seek immediate medical attention. |
| Spill or leak | Use appropriate tools to put the spilled solid in a convenient waste disposal container. Wash spill area with soap and water. |
| Protective Clothing | Gloves, safety glasses, goggles, faceshield, lab coat, dust respirator, safety shower, emergency eye wash station. |

SECTION VIII FIRST AID MEASURES

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| Specific first aid measures | Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention. |
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SECTION IX PREPARATION OF THE MSDS

Rev. No. 7 Date December 1, 2005 Approved Michael Raszeja

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