according to 29CFR1910/1200 and GHS Rev. 3

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#### **Potassium Nitrate, Lab Grade**

# SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Potassium Nitrate, Lab Grade

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25494A

Recommended uses of the product and restrictions on use:

**Manufacturer Details:** 

AquaPhoenix Scientific, Inc 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

# **Supplier Details:**

Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (724)517-1954

## **Emergency telephone number:**

### **Fisher Science Education**

Emergency Telephone No.: 800-535-5053

## **SECTION 2: Hazards identification**

### Classification of the substance or mixture:



# Oxidizing

Oxidizing solids, category 2



#### Irritant

Skin irritation, category 2 Eye irritation, category 2A Specific target organ toxicity following single exposure, category 3

Ox. Sol. 2 H272. Skin Irrit. 2 H315. Eye Irrit. 2 H319.

STOT SE 3 H335.

Hazards Not Otherwise Classified - Combustible Dust.

Signal word: Danger

#### **Hazard statements:**

May intensify fire; oxidizer.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

#### **Precautionary statements:**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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.

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### **Potassium Nitrate, Lab Grade**

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash ... thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

Specific treatment (see supplemental first aid instructions on this label).

Take off contaminated clothing and wash before reuse.

IF ON SKIN: Wash with soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

Store locked up.

Store in a well ventilated place. Keep container tightly closed.

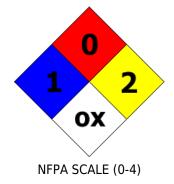
Dispose of contents/container to ....

#### Other Non-GHS Classification:





NFPA/HMIS





HMIS RATINGS (0-4)

## **SECTION 3: Composition/information on ingredients**

Ingredients:				
CAS 7757-79-1	Potassium Nitrate	>95 %		
		Percentages are by weight		

### **SECTION 4: First aid measures**

# **Description of first aid measures**

### After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

#### After skin contact:

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Potassium Nitrate, Lab Grade**

Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Seek medical advice if discomfort or irritation persists.

### After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

#### After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

### Most important symptoms and effects, both acute and delayed:

Irritation. Nausea. Headache. Shortness of breath.

# Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

# **SECTION 5: Firefighting measures**

# **Extinguishing media**

# Suitable extinguishing agents:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

### Unsuitable extinguishing agents: None

### Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

# Advice for firefighters:

### **Protective equipment:**

Use NIOSH-approved respiratory protection/breathing apparatus.

#### Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proof tools and explosion-proof equipment.

#### **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Transfer to a disposal or recovery container. Use spark-proof tools and explosion-proof equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

#### **Environmental precautions:**

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

### Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect solids in powder form using vacuum with (HEPA filter).

# Reference to other sections: None

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#### Potassium Nitrate, Lab Grade

# **SECTION 7: Handling and storage**

### Precautions for safe handling:

Minimize dust generation and accumulation. Wash hands after handling. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid generation of dust or fine particulate. Avoid contact with eyes, skin, and clothing.

# Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed. Store with like hazards.

## **SECTION 8: Exposure controls/personal protection**





**Control Parameters:** , , OSHA PEL TWA (Total Dust) 15 mg/m3 (50 mppcf\*).

, , ACGIH TLV TWA (inhalable particles) 10 mg/m3.

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume hood. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

**Respiratory protection:** Not required under normal conditions of use. Use suitable respiratory

protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills,

respiratory protection may be advisable.

**Protection of skin:** The glove material has to be impermeable and resistant to the product/

the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and

the degradation.

**Eye protection:** Safety glasses with side shields or goggles.

**General hygienic measures:** The usual precautionary measures are to be adhered to when handling

chemicals. Keep away from food, beverages and feed sources.

Immediately remove all soiled and contaminated clothing. Wash hands

before breaks and at the end of work. Do not inhale

gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and

skin.

### **SECTION 9: Physical and chemical properties**

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Potassium Nitrate, Lab Grade**

Appearance (physical state, color):	White solid	Explosion limit lower: Explosion limit upper:	Not Determined Not Determined
Odor:	Odorless	Vapor pressure at 20°C:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH-value:	6-8 5% aq. Solution	Relative density:	Not Determined
Melting/Freezing point:	334°C / 633.2°F	Solubilities:	Soluble in Water.
Boiling point/Boiling range:	400°C / 752°F@ 760 mmHg	Partition coefficient (noctanol/water):	Not Determined
Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature:	Not Determined
Evaporation rate:	Not Determined	Decomposition temperature:	>400 ° C
Flammability (solid, gaseous):	Not Determined	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density at 20°C:	Not Determined		

# SECTION 10: Stability and reactivity

#### Reactivity:

Nonreactive under normal conditions.

#### **Chemical stability:**

No decomposition if used and stored according to specifications.

### **Possible hazardous reactions:**

Contact with combustible/organic material may cause fire.

# **Conditions to avoid:**

Incompatible products, excess heat, combustible material, and dust formation. Strong reducing agents, Powdered metals, Strong acids, Organic materials.

#### **Incompatible materials:**

Strong reducing agents, strong acids, strong bases.

### **Hazardous decomposition products:**

Carbon oxides (CO, CO2). Oxides of potassium.

# **SECTION 11: Toxicological information**

### **Acute Toxicity:**

Oral:

Rat 3015 mg/kg (Source: JAPAN\_GHS) LD50 **Chronic Toxicity**: No additional information.

Corrosion Irritation: No additional information.
Sensitization: No additional information.

Numerical Measures: No additional information.

Carcinogenicity:

IARC-Group 2A: Probably carcinogenic to humans.

**Mutagenicity**: No additional information.

**Reproductive Toxicity:** 

according to 29CFR1910/1200 and GHS Rev. 3

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#### **Potassium Nitrate, Lab Grade**

Reproductive toxicity - rat - Oral Effects on Fertility: Other measures of fertility. Reproductive toxicity - rat - Oral Effects on Newborn: Behavioral. Reproductive toxicity - rabbit - Oral Effects on Fertility: Abortion. Reproductive toxicity - guinea pig - Oral-Effects on Newborn: Stillbirth. Reproductive toxicity - guinea pig - Oral Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per # females mated ). Effects on Embryo or Fetus: Other effects to embryo.

### **SECTION 12: Ecological information**

**Ecotoxicity:** No additional information. **Persistence and degradability**:

Readily degradable in the environment.

**Bioaccumulative potential**: No additional information.

**Mobility in soil**: No additional information.

Other adverse effects: No additional information.

#### **SECTION 13: Disposal considerations**

#### Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

# **SECTION 14: Transport information**

# **US DOT**

**UN Number:** 

ADR, ADN, DOT, IMDG, IATA 1486

Limited Quantity Exception: None

Bulk: Non Bulk:

RQ (if applicable): None RQ (if applicable): None

**Proper shipping Name:** Potassium Nitrate. **Proper shipping Name:** Potassium Nitrate.

Hazard Class: 5
Packing Group: |||.
Packing Group: |||.

Marine Pollutant (if applicable): No Marine Pollutant (if applicable): No

additional information. additional information.

Comments: None Comments: None





# **SECTION 15: Regulatory information**

#### **United States (USA)**

according to 29CFR1910/1200 and GHS Rev. 3

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### **Potassium Nitrate, Lab Grade**

# SARA Section 311/312 (Specific toxic chemical listings):

Reactive, Chronic

### SARA Section 313 (Specific toxic chemical listings):

7757-79-1 Potassium Nitrate.

#### RCRA (hazardous waste code):

None of the ingredients are listed.

#### TSCA (Toxic Substances Control Act):

All ingredients are listed.

## CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

### Proposition 65 (California):

#### Chemicals known to cause cancer:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

### Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

# Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

#### Canada

### Canadian Domestic Substances List (DSL):

All ingredients are listed.

# Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

#### Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

### **SECTION 16: Other information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases: None

# **Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.

PNEC Predicted No-Effect Concentration (REACH).

according to 29CFR1910/1200 and GHS Rev. 3

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### **Potassium Nitrate, Lab Grade**

CFR Code of Federal Regulations (USA).

SARA Superfund Amendments and Reauthorization Act (USA).

RCRA Resource Conservation and Recovery Act (USA).

TSCA Toxic Substances Control Act (USA).

NPRI National Pollutant Release Inventory (Canada).

DOT US Department of Transportation.

IATA International Air Transport Association.

GHS Globally Harmonized System of Classification and Labelling of Chemicals.

ACGIH American Conference of Governmental Industrial Hygienists.

CAS Chemical Abstracts Service (division of the American Chemical Society).

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

**Effective date**: 12.29.2014 **Last updated**: 05.21.2015