

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Potassium Nitrate USP

Commercial Name Not available.
Product Use Not available.
Restrictions On Use Not available.

Product Code 50-1460

Company PCCA In case of emergency contact:

9901 South Wilcrest Houston, TX 77099 Phone: 1-800-331-2498 Fax: 1-800-874-5760

Section 2: Hazard(s) Identification

OSHA Haz Com: Oxidizing solids Category 3 Acute hazards to the aquatic environment Category 3

CFR 1910.1200

Signal Word WARNING

Hazard Statement(s) May intensify fire; oxidizer.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Keep away from heat. - No smoking. Keep/Store away from clothing and other combustible materials.

Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye

CHEMTREC (24hr) 1-800-424-9300

protection/face protection. Avoid release to the environment.

Response In case of fire: Use water for extinction. Call a POISON CENTER/doctor if you feel unwell.

Storage Not available.

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in accordance with

applicable laws and regulations, and product characteristics at time of disposal.

Section 3: Composition/Information on Ingredients

Substance/MixtureSubstanceComponentsPotassium nitrate

% By Weight 100
CAS# 7757-79-1
Molecular Weight 101.1 g/mole
Chemical Formula KNO3

Synonym(s) Nitric Acid, potassium salt; saltpeter

Mixtures

NameCAS#% by WeightTLV/PELLC50/LD50Potassium nitrate7757-79-1100Not available.ORAL (LD50):Acute: 3750mg/kg [Rat].1901 mg/kg [Rabbit].

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Section 4: First-Aid Measures

Inhalation Move to fresh air. Get medical attention if symptoms persist.

Skin Contact Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

Eye Contact Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Symptoms/Effects

Acute May cause irritation to skin, eyes and respiratory tract.

Delayed May cause irritation to skin, eyes and respiratory tract.

Immediate Medical Attention

Treat symptomatically. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Strong oxidizer. Contact with combustible material may cause fire. Fire or high temperatures may cause explosive decomposition, especially if confined. Fire may produce irritating, corrosive and/or toxic gases.

Firefighters Special Equipment and Precautions

Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Methods and material for containment and cleaning up: Keep combustibles (wood, paper, oil, etc.) away from spilled material. Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Collect in a non-combustible container for prompt disposal. Clean surface thoroughly to remove residual contamination. Notification Procedures: Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved. Environmental Precautions: Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not contaminate water sources or sewer.

Section 7: Handling and Storage

Precautions for safe handling: DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Keep away from combustible material. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Conditions for safe storage, including any incompatibilities: Keep material from heat, light, sparks and flame. Oxidizing material - Keep away from flammable and combustible materials. Store away from incompatible materials. Keep container tightly closed. Store in a dry place. Store in a well-ventilated place.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available. **Engineering Controls** Not available.

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Personal Protection

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Eye/face protection: Wear safety glasses with side shields (or goggles). Skin Protection Hand Protection: Chemical resistant gloves Other: Chemical resistant clothing. Respiratory Protection: In case of inadequate ventilation use suitable respirator. High-efficiency particulate respirator with full facepiece. Hygiene measures: Provide eyewash station and safety shower. Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Avoid contact with eyes, skin, and clothing.

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Section 9: Physical and Chemical Properties

Appearance White, Colorless Crystals or powder. Solid

Odor Odorless.
Odor Threshold Not available.

Melting Point 333 - 337 °C pH 7

Not applicable. **Freezing Point** Not available **Vapor Pressure** 400 °C Not available. **Boiling Point/Range Vapor Density** 752 T (400 °C) Not available. **Decomposition temperature Viscosity Partition Coefficient:** Not available. **Evaporation Rate** Not available.

n-octanol/water

Flash Point Not applicable. Autoignition temperature Not available.

Flammability Not available.

Flammability or Explosive Limits:

Lower Not available.

Upper Not available.

Solubility(ies) 316 g/l (20 °C) 357 g/l (35 °C) in water. glycerol: Soluble alcohol: Slightly soluble ethanol: Practically

insoluble

Other Not available.

Section 10: Stability and Reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Chemical StabilityStable; however, may decompose if heated.Hazardous PolymerizationHazardous polymerization does not occur.

Conditions to Avoid Contact with combustibles. Excessive heat. Contact with incompatible materials Incompatible Materials

Flammable/combustible material. Organic compounds. Strong acids. Metals

Hazardous Decomposition Products Oxygen. Nitrogen oxides.

Section 11: Toxicological Information

RTECS TT370000

Acute Toxicity

Oral Product: LD 50 (Rat): 3.750 mg/kg Dermal Product: LD 50 (Rat): > 5.000 mg/kg Inhalation Product: LC 50 (Rat): > 0,527 mg/l

Skin Corrosion/Irritation

Prolonged skin contact may cause temporary irritation.

Serious Eye Damage/Irritation

May cause temporary eye irritation.

Respiratory or Skin Sensitization

Not a skin nor a respiratory sensitizer.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

This substance has no evidence of carcinogenic properties.

Reproductive Toxicity

Not available.

Routes of Entry

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Inhalation. Skin. Eye. Ingestion. Inhalation: Dust may irritate throat and respiratory system and cause coughing. Skin Contact: Prolonged skin contact may cause temporary irritation. Eye contact: May cause temporary eye irritation. Ingestion: May be harmful if swallowed.

Symptoms Related to Exposure

Not available.

Potential Health Effects

Not available.

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity

Fish Product: No data available. Specified substance(s): Potassium Nitrate LC 50 (Bluegill (Lepomis macrochirus), 96 h): 420 mg/l LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 62 mg/l NOAEL (Oncorhynchus mykiss, 96 h): 98,9 mg/l LC 50 (Oncorhynchus mykiss, 96 h): > 98,9 mg/l Aquatic Invertebrates Product: No data available. Specified substance(s): Potassium Nitrate LC 50 (Pond snail (Lymnaea), 48 h): 1.492 mg/l LC 50 (Water flea (Daphnia magna), 48 h): 490 mg/l EC 50 (Water flea (Daphnia magna), 48 h): 490 mg/l

Persistance and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

The product is water soluble and may spread in water systems.

Other Adverse Effects

Harmful to aquatic organisms.

Section 13: Disposal Considerations

Waste Disposal

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Disposal of Container

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Other Considerations

Not available.

Section 14: Transport Information

DOT Classification

UN Number: UN 1486 UN Proper Shipping Name: POTASSIUM NITRATE Transport Hazard Class(es) Class: 5.1 Label(s): 5.1 Packing Group: III Marine Pollutant: No Special precautions for user: Not determined.

Section 15: Regulatory Information

Regulations

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Yes Europe

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. CERCLA/SARA Hazardous Substances - Not applicable. US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance Potassium Nitrate (CAS 7757-79-1) Listed. N511 CERCLA (Superfund) reportable quantity: None. Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories - Immediate Hazard: No. Delayed Hazard: No. Fire Hazard: Yes. Pressure Hazard: No. Reactivity Hazard: No. Section 311 Hazardous chemical: Yes. State Regulations This product doesn not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm. New Jersey RTK (EHS Survey): Reportable threshold: Potassium nitrate (CAS 7757-79-1) 500 lbs. Pennsylvania RTK - Hazardous Substances: Listed substance: Potassium nitrate (CAS 7757-79-1) Listed. Inventory Status Country(s)/Region Inventory Name Australian Inventory of Chemical Substances (AICS) On Inventory* Australia Yes

Yes Europe

Domestic Substances List (DSL) Canada

Yes Canada

Non-Domestic Substances List (NDSL)

No China Inventory of

Existing Chemical Substances in China (IECSC) Existing Commercial Chemical Substances (EINECS)

European Inventory of European List of Notified Chemical

Substances (ELINCS) No Japan Inventory of Existing and New Chemical Substances

Existing Chemicals List (ECL) Yes Korea

Yes New Zealand **New Zealand Inventory** Yes Philippines

Philippine Inventory of Chemicals and CHemical Substances (PICCS)

Yes United States &

Toxic

Substances Control Act (TSCA)

Yes Puerto Rico *A "Yes" indicates that all

components of this product comply with the inventory requirements administered by the governing country(s).

Other

(ENCS)

Not available.

Section 16: Other Information

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