

1. IDENTIFICATION

Product Name	Potassium Nitrate
Recommended use	Fertilizer
Supplier	Valudor Products, LLC. 179 Calle Magdalena Suite 100 Encinitas CA 92024 (760) 635 8500
Emergency Telephone	800-535-5053 (Infotrac)

2. HAZARD IDENTIFICATION

Classification

This product considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Oxidizing Solids	Category 3
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Label Elements

GHS Pictograms



Signal Word
Hazard Statements
Precautionary Statements – Prevention

Response – Fire

Disposal

Hazards not other classified

Warning
May intensify fire; oxidizer

Keep away from heat.
Keep/Store away from clothing/combustible materials
Take any precaution to avoid mixing with combustibles
Wear protective gloves/eye protection/face protection
In case of fire use any mean suitable for extinguishing surrounding fire
Dispose of contents/ container to an approved waste disposal plant
None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name	Potassium Nitrate
Synonym	NA
Formula	KNO3
Molecular weight	101.1 g/mol

Cas No. 7757-79-1
Concentration 90-100%

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/physician if irritation persists

Skin Contact Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention for any breathing difficulty.

Ingestion Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician

Most important symptoms/effects, acute and delayed

Symptoms No information available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media Use any means suitable for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water

Unsuitable Extinguishing Media No Information available

Specific Hazards Arising from the chemical

Fire Hazard May intensify fire; oxidizer

Reactivity The product is non-reactive under normal conditions of use, storage and transport. May intensify fire; oxidizer. Possibility of explosive reaction with organic material, combustible material, strong acids & bases

Hazardous combustion products Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to:
Nitrous vapors

Protective equipment and precautions for fire-fighters

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 Avoid contact with eyes, skin and clothing. Avoid breathing

vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

Methods and materials for containment and cleanup

Methods for clean-up	Ventilate spillage area. No open flames, sparks or smoking. Sweep up and place in an appropriate closed container. Keep unauthorized personnel away. Do not absorb with sawdust or any other combustible absorbent material. Avoid generating dust. Clean contaminated work surfaces with water.
Environmental Precautions	Prevent entry into waterways or sewers

7. HANDLING AND STORAGE

Precautions for safe handling

Keep away from hot surfaces, sparks, open flames and other sources of ignition. No smoking. Handle in a well-ventilated environment. Do not breathe vapors / spray / mist / fume. Avoid contact with skin, eyes or clothing. Wear personal protective equipment in section 8. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

Conditions for safe storage, including any incompatibilities

Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use. Store separate from incompatible material.

Incompatible Materials	Flammable or combustible materials. Reducing agents. Strong acids
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

Personal Protective Equipment

Eye/face protection	Safety glasses are recommended in professional settings
Skin protection	Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective clothing Butyl-rubber protective gloves
Respiratory protection	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance	White Crystalline solid or beads
Physical state	Solid
Odor	No odor
Odor threshold	No information available
pH	6 - 8 (5 %)
Melting point / freezing point	334 °C
Boiling point / Boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Flammability or explosive limits	
Upper	No information available
Lower	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity	2100 kg/m ³
Solubility in water	32 g/100ml
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	400 °C
Viscosity	No information available

10. STABILITY AND REACTIVITY

Reactivity	The product is non-reactive under normal conditions of use, storage and transport. May intensify fire; oxidizer.
Chemical stability	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions	None under normal processing. May intensify fire; oxidizer.
Conditions to avoid	Avoid heat, hot surfaces, flames or sparks. Ignition sources.
Incompatible materials	Flammable or combustible materials. Reducing agents. Strong acids
Hazardous decomposition products	Hazardous combustion can lead to the release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact	May cause skin irritation
Eye contact	May cause eye irritation
Inhalation	May cause irritation of respiratory tract
Ingestion	May be harmful if swallowed

Symptoms related to the physical chemical and toxicological characteristics

No information available

Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation	Not classified
Eye damage/irritation	Not classified
Sensitization	Not classified
Mutagenic effects	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT – single exposure	Not classified
STOT – repeated exposure	Not classified
Aspiration hazard	Not classified

Acute Toxicity

Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium Nitrate	7757-79-1	> 2000 mg/kg	> 5000 mg/kg	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment
Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Potassium Nitrate 7757-79-1	LC50: > 100 mg/l – 96 h (Oncorhynchus mykiss)	EC50: > 1700 mg/l	EC50: >= 490 mg/l (Daphnia magna)

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Regulated
UN-No 1486
Proper Shipping Name Potassium Nitrate
Hazard Class 5.1
Packing Group III
IATA Regulated
UN-No 1486
Proper Shipping Name Potassium Nitrate
Hazard Class 5.1
Packing Group III
IMDG Regulated
UN-No 1486
Proper Shipping Name Potassium Nitrate
Hazard Class 5.1
Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
 Potassium Nitrate

SARA 311/312 Hazard Categorization

Acute health hazard No
 Chronic Health Hazard No
 Fire hazard No
 Pressure No
 Reactivity Yes

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). Not applicable

US State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals

16. OTHER INFORMATION

NFPA Ratings Health: 1 Flammability: 0 Reactivity: 0

NFPA specific hazard: OX – Materials that possess oxidizing properties

Revision Date:

Product name: Potassium Nitrate

Creation Date: 12/05/2019

Revision Number: 1.0
Revision Information Creation

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text