INFOTRAC

INFOTRAC



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name

Potassium Nitrate

CAS number

7757-79-1

Synonyms

No information available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Reagent

1.3 Details of the supplier of the safety data sheet

Company

Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone

512-668-9918

Fax

512-886-4008

1.4 Emergency telephone

Emergency Phone #

US & Canada: 1-800-535-5053 International 1-352-323-3500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids

Skin irritation

Category 2

Eye irritation

Category 2

Category 2

Category 2

Category 2A

Specific target organ toxicity following single exposure

Category 3

2.2 GHS Label elements, including precautionary statements

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Pictogram





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 form heat/sparks/open flames/hot surfaces. No smoking. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye

protection/face protection. Avoid breathing

dust/fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke

when before reuse. IF ON SKIN: Wash with soap and water. IF

INHALED: Remove with 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.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May form combustible dust concentrations in air (during processing)

SECTION 3: Composition/information on ingredients

3.1 Components

	Chemical name	Common name and synonyms	CAS number	Concentration	
ſ	Potassium Nitrate	-	7757-79-1	>95%	

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Move exposed individual to fresh air. Loosen clothing as necessary and position

individual in a comfortable position. Seek medical advice if discomfort or irritation

perists. If breathing difficult, give oxygen.

In case of skin contact 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.

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In case of 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.

If swallowed Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink

sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, nausea, headache, shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media If in laboratory setting, follow laboratory fire

suppression procedures. Use appropriate fire suppression agents for adjacent combustible

materials or sources of ignition.

Unsuitable extinguishing mediaNo information available.

5.2 Specific hazards arising from the substance or mixture

Combustion products may include carbon oxides or other toxic vapors. Thermal decompostion 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.

5.3 Special protective equipment and precautions for firefighters

Use NIOSH-approved respiratory protection/breathing apparatus. Move product containers away from fire or keep cool with water spray as a protective measure, where feasible. Use spark-proff tools and explosion-proof equipment.

5.4 Further information

Flash Point No data available

Autoignition Temperature No data available

Explosion limits

UpperNo information availableLowerNo information availableSensitivity to Mechanical ImpactNo information availableSensitivity to Static DischargeNo information available

NFPA

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1	0	2	OX

SECTION 6: Accidental release measures

6.1 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 adquate ventilation. keep away form ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent.

6.2 Environmental precautions

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

6.3 Methods and materials 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 surface, as these may form an explosive mixture if they are released into the atmosphere in suffcient 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).

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Minimize dust generation and accumulation. Wash hands after handling. Avoid dispersal of dust in the air (i.e., clearing dust surface with compressed air). Routine housekeeping should be institued 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.

Hygiene measures

The usual precautionary measures are to be adhered to when handling chemical. Keep away form 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.

7.2 Conditions for safe storage, including any incompatibilities

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Storage conditions

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

Incompatibilities

No information available

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Potassium nitrate	TWA	15 mg/m3

US. ACGIH Threshold Limit Values

Component	Type	Value
Potassium nitrate	TWA	10 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinty of use/handling. Provide exhaust ventilation or other engineering controls to keep 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 relied 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 equiment).

Personal protective equipment

Eye/face protection

Safety glasses with side shields or goggles.

Skin and body protection

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The gloves material has to be impermeable and resistant to the product/the substance/the preparation being used/handled. Selection of the gloves material on consideration of the penetration times, rates of diffusion and the degradation.

Respiratory protection

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable resporatory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Control of environmental exposure

No information available

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White
Odor Odorless
Odor Threshold Not deter

Odor Threshold

PH

6-8 5% aq. Solution

Melting Point/Range

334 °C / 633.2 °F

Boiling Point/Range 400 °C / 752 °F @ 760 mmHg

Evaporation Rate Not determined Flammability (solid) Not determined

Flammability or explosive limit

Upper No data available Lower No data available

Vapor PressureNo information availableVapor DensityNo information availableDensityNo information available

Solubility Soluble in water

Partition coefficient; n-octanol/water No information available Autoignition Temp No information available

Decomposition Temp > 400 °C

Viscosity No information available

Molecular Formula KNO3 Molecular Weight 7757-79-1

VOC Content(%) No information available Oxidizing properties No information available

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

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10.1 Reactivity

Nonreactive under normal conditions

10.2 Chemical stability

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Contact with combustible/organic material may cause fire.

10.4 Conditions to avoid

Incompatible products, excess heat, combustible material, and dust formation. Strong reducing agents, powdered metals, strong acids, organic materials.

10.5 Incompatible materials

Strong reducing agents, strong acids, strong bases.

10.6 Hazardous decomposition products

Carbon oxides, oxides of potassium.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component LD50 Oral		LD50 Dermal	LC50 Inhalation	
Potassium nitrate	3015 mg/kg (rat)	-	-	

Skin corrosion/irritation

No information available

Serious eye damage/eye irritation

No information available

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Potassium nitrate	7757-79-1	Not listed				

Specific target organ toxicity - single exposure

None known

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Specific target organ toxicity - repeated exposure

None known

Reproductive toxicity

Oral effects on fertility, oral effects on newborn, effects on embryo or fetus.

Chronic effects

No information available

11.2 Additional Information

No information available

SECTION 12: Ecological information

12.1 Toxicity

No information available

12.2 Persistence and degradability

Readily degradable in the environment

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US) UN-No

UN1486

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Proper Shipping Name POTASSIUM NITRATE

Hazard Class 5.1
Packing Group III

IMDG

UN-No UN1486

Proper Shipping Name POTASSIUM NITRATE

Hazard Class 5.1
Packing Group III

IATA

UN-No UN1486

Proper Shipping Name POTASSIUM NITRATE

Hazard Class 5.1 Packing Group III

SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Listed, Reactive, Chronic.

SARA 313 (TRI reporting)

Listed

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

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Not regulated

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Not listed

US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed

California Proposition 65

Not listed

SECTION 16: Other information

Issue date: 08/16/2024

Revision: 0

SECTION 17: Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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