Potassium Nitrate

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Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Section 1

Section 2

Potassium Nitrate Science education applications Nitrate of Potash, Saltpeter. Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



May intensify fire; oxidizer. Harmful to aquatic life.

GHS Classification:

Oxidizing Solid Category 3, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Oral Category 5

Section 3

Composition / Information on Ingredients

CAS #

7757-79-1

% 100

Chemical Name Potassium nitrate

Section 4

Section 5

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	After contact with skin, wash immediately with plenty of water.
Ingestion:	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Firefighting Procedures

Section 6	Spill or Leak Procedures
Hazardous Combustion Products:	Potassium Oxide, Nitrogen oxides
	chlorate or bromine trifluoride. Violent reaction (ignition) with bromine pentafluoride, NH4, NO3, and IF7. Risk of explosion by shock, friction, fire or other sources of ignition.
Fire and/or Explosion Hazards:	breathing apparatus. Thermal decomposition produces highly toxic fumes. Explosive reaction with potassium
Extinguishing Media: Fire Fighting Methods and Protection:	Use media suitable to extinguish surrounding fire. Firefighters should wear full protective equipment and NIOSH approved self-contained

Spill or Leak Procedures

Potassium Nitrate

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Remove soiled clothing and launder before reuse. Isolate area. Keep unnecessary personnel away. Absorb the liquid and scrub the area with detergent and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not flush spill to drain. Vacuum or sweep up material and place in a disposal container

Section 7

Handling and Storage

 Handling:
 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. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep container tightly closed in a cool, well-ventilated place.

 Storage:
 Keep container tightly closed in a cool, well-ventilated place.

Storage: Storage Code:

Section 8

Protection Information

Yellow - Reactive. Store separate and away from incompatible material.

work.

	ACC	SIH	OSHA PEL		
<u>Chemical Name</u>	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
No data available	N/A	N/A	N/A	N/A	

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use. Lab coat, apron, eve wash, safety shower.

Personal Protective Equipment (PPE): Respiratory Protection: Eye Protection:

Skin Protection:

Control Parameters Engineering Measures:

> No respiratory protection required under normal conditions of use. Wear chemical splash goggles when handling this product. Have an eye wash station

available. Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

Gloves:

Section 9

Physical Data

Toxicity Data

Formula: KNO3 Molecular Weight: 101.11 Appearance: Crystalline Solid Odor: No data available Odor Threshold: No data available pH: 5.5 - 8 at 50 g/l at 20 °C Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: N/A Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: 2.11 Solubility in Water: Soluble Log Pow (calculated): No data available

Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: Hazardous Polymerization:

No data available Stable under normal conditions. None known. Metals (powdered), Strong reducing agents, Strong acids, Organic Compounds Nitrogen oxides, Potassium Oxide Will not occur

Section 11

Section 10

Routes of Entry

Ingestion.

Potassium Nitrate

Symptoms (Acute):Impaired Kidney Function, Respiratory disorders, Cardiovascular systemDelayed Effects:No data available

Delayed Effects.						
Acute Toxicity: Chemical Name Potassium nitrate		CAS Number 7757-79-1	Oral LD50 Oral LD50 Rat 3540 mg/kg Oral LD50 Rat 1901 mg/kg Oral LD50 Rat 3750 mg/kg	Not deter	al LD50 rmined	Inhalation LC50 Not determined
Carcinogenicity: Chemical Name Potassium nitrate		CAS Number 7757-79-1	IARC Listed	N Not listed	TP	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mu No evidence of a tera No evidence of a ser No evidence of nega See Section 2 Mutation data cite	atogenic effect (birt sitization effect.	ffects.	d as a carcinoger	n by IARC, N	ITP or OSHA.
Section 12		Ξ	cological D	ata		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects	No data No data No data No data	ological hazard. Th			nts and/or w	vildlife.
Chemical Name Potassium nitrate	CAS NumberEco Toxicity7757-79-1Aquatic LC50 Mosquitofish (Gambusia affinis) = 22.5 MG/LAquatic EC50 (48h) Daphnia = 226 MG/L					
Section 13		Disp	osal Inform	nation		
Disposal Methods: Waste Disposal Code(Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.					
Section 14		Tran	sport Inforr	nation		
Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name: UN1486, Potassium Nitrate, 5.1, III UN number: 1486 Class: 5.1 Packing group: III Proper shipping name: Potassium nitrate						
Section 15		Regu	latory Infor	mation		
TSCA Status:	All co	omponents in this p	product are on the	TSCA Inventory.		
Chemical Name	CAS Number	§ 313 Name	e § 304 RQ	CERCLA RQ	§ 302 TPC	Q CAA 112(2) TQ
No data available	7757-79-	1 No	No	No	No	No
California Prop 65:	No California Proposition 65 ingredients					

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health