CHEMTREC 24 Hour Emergency

Phone Number (800) 424-9300

For laboratory use only

Not for drug, food or household use.

Section 1

Chemical Product and Company Identification

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Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

Product POTASSIUM NITRATE Synonyms Potash Nitrate / Saltpeter Section 2 Hazards Identification Signal word: DANGER Precautionary statement: Pictograms: GHS03 / GHS07 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Target organs: Red blood cells P220: Keep away from clothing/incompatible/combustible materials. P221: Take any precaution to avoid mixing with combustibles/reducing agents. P261: Avoid breathing dust. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. **GHS Classification:** P370+P378: In case of fire: Use water to extinguish. Oxidizing solid (Category 2) P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Skin irritation (Category 2) Remove contact lenses, if present and easy to do. Continue rinsing. Eye irritation (Category 2B) P337+P313: If eye irritation persists: Get medical attention STOT-SE (Category 3) P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. GHS Label information: Hazard statement: P312: Call a POISON CENTER or doctor if you feel unwell. H272: May intensify fire; oxidizer. P302+P352: IF ON SKIN: Wash with plenty of water and soap. H315: Causes skin irritation. P332+P313: If skin irritation occurs: Get medical attention. H319: Causes serious eve irritation. P362+P364: Take off contaminated clothing and wash it before reuse. H335: May cause respiratory irritation. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 3	Composition / Information on Ingredients						
Chemical Name		CAS #	%	EINECS			
Potassium nitrate		7757-79-1	100%	231-818-8			
Section 4	First Aid Measures						

INGESTION: HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use water. Do not use dry chemicals or foams. CO₂ or Halon[®] may provide limited control.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Not combustible but enhances combustion of other substances. Risk of fire and explosion on contact with reducing agents.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits.	Potassium nitrate	Not established	Not established	Not established			

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator

approved respirator.								
Section 9	Physical & Chemical Prope	rties						
Appearance: Solid. White crystals or prills E Odor: No odor. F Odor threshold: Data not available. F pH: Data not available. V Melting / Freezing point: 333°C (631°F) V Boiling point: 400°C (752°F) R		Evaporation rate (=1): Data not availablePartFlammability (solid/gas): Data not available.AutExplosion limits: Lower / Upper: Data not availableDecVapor pressure (mm Hg): NegligibleVisoVapor density (Air = 1): 3.0Mol			Auto-ignitie Decompos Viscosity: Molecular f	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: KNO ₃ Molecular weight: 101.11		
Section 10	Stability & Reactivity							
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Incompatible materials: Heavy metals, phosphites, organic compounds, carbonaceous materials, strong acids and many other materials. Hazardous decomposition products: Nitrogen oxides and toxic metal fumes.								
Section 11	Toxicological Information							
Skin corrosion/irrit Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dai NTP: No componen IARC: No componen OSHA: No componen Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Inhalatio Ingestion: Ingestion Skin: Contact with s Eyes: Contact with	Acute toxicity: Oral-rat LD50: 3015 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-single exposure: Data not available STOT-single indexposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Inhalation: Ingestion: Ingestion: Ingestion causes adominal pain, blue lips, fingernails and skin, dizziness, labored breathing, confusion, convulsions, diarrhea, headache, nausea, unconsciousness. Skin: Contact with skin ca							
Section 12	Ecological Information							
Toxicity to fish: Poecilia retulata (fish, fresh water), LC50 = 1378 mg/L/96 hours Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (Crustacea), TLm = 39 mg/L/96 hours Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.								
Section 13	Disposal Considerations	need of estal	ag aiza guantitiaa a	nhy Fodorol rogul	otiona may ar	anly to omenty or	ntainar State and/or least	
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.								
Section 14	Transport Information (US	DOT / CANAD	A TDG)					
Section 15	Packing gr ited quantity equal to or less to a	han 5 Kg	Report 2016 EF	able Quantity: No RG Guide # 140 RCRA code	0 DSL	Man	rine pollutant: No	
Potassium nitrate		Listed	Not listed	D001	Listed	Not listed		
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Section 16	Other Information							
The information contain	ed herein is furnished without warranty	of any kind. Em	ployers should use this i	nformation only as a su	pplement to othe	er information gather	red by them and must make indepen-	

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015