## SAFETY DATA SHEET

## OXIDIZER STORAGE CODE YELLOW

Section 1 Chemical Product and Company Identification

## HOME SCIENCE TOOLS

POTASSIUM NITRATE

665 Carbon Street Billings, MT 59102 800-860-6272 www.homesciencetools.com

Product

# Page E1 of E2 CHEMTREC 24 Hour Emergency USA

Phone Number (800) 424-9300 1 703-741-5500 (from anywhere in the world). For laboratory and industrial use only.

Not for drug, food or household use.

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 eye 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.

### Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

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. CO<sub>2</sub> or Halon<sup>®</sup> 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

Section 9 Appearance: Solid. Odor: No odor.							
	Physical & Chemical Prope	rties					
Odor threshold: Data pH: Data not availab Melting / Freezing po Boiling point: 400°C Flash point: Not flam	White crystals or prills a not available. e. pint: 333°C (631°F) ; (752°F)	Evaporation r Flammability ( Explosion lim Vapor pressu Vapor density Relative density	ate (=1): Data not av solid/gas): Data not av its: Lower / Upper: Data re (mm Hg): Negligible (Air = 1): 3.0 (Specific gravity): 2.1 : 36 g/100 ml in water.	/ailable.	Auto-igniti Decompos Viscosity: Molecular		: Data not available <b>re:</b> Data not available.
Section 10	Stability & Reactivity						
Incompatible materi	Stable : Excessive temperatures, heat, als: Heavy metals, phosphites, o osition products: Nitrogen oxid	sparks, open fl organic compo	unds, carbonaceous ma	of ignition.	and many oth	er materials.	
Section 11	Toxicological Information						
Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component <b>STOT-single exposu</b> STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Inhalatior Ingestion: Ingestion Skin: Contact with sh Eyes: Contact with es Signs and symptom observation is indicat	of this product present at levels of this product present at levels to f this product present at levels to f this product present at levels ty: Data not available <b>tre:</b> Data not available <b>osure:</b> Data not available Data not available <b>cts:</b> causes cough, sore throat. causes abdominal pain, blue lips	greater than or greater than or s greater than o , fingernails and cause effects o	equal to 0.1% is identif r equal to 0.1% is ident d skin, dizziness, labore on the blood. This may	ed as probable, pos fied as a carcinoge d breathing, confusi	ssible or confii n or potential ( on, convulsion	med human card carcinogen by OS	SHA. dache, nausea, unconsciousnes
Section 12	Ecological Information						
Toxicity to daphnia Toxicity to algae: No	radability: No data available	: Daphnia mag Bioaccum PBT and v	•	ata available			
Mobility in soil: No Other adverse effect	s: An environmental hazard can	inot be exclude			disposal.		
Mobility in soil: No Other adverse effect Section 13	S: An environmental hazard can Disposal Considerations		d in the event of unprof	essional handling or	·	pply to empty o	ontainer. State and/or local
Mobility in soil: No Other adverse effect Section 13 These disposal guid regulations may be	An environmental hazard can Disposal Considerations delines are intended for the di different. Dispose of in according different.	sposal of cata dance with al	d in the event of unprof log-size quantities or l local, state and fede	essional handling or	ations may a		
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Mobility in soil: No Other adverse effect Section 13 These disposal guiregulations may be Section 14 UN/NA number: Hazard class: 5.1	ts: An environmental hazard can Disposal Considerations delines are intended for the di different. Dispose of in accor Transport Information (US UN1486 Shipping n	sposal of cata dance with al <b>DOT / CANA</b> ame: Potas oup: III	d in the event of unprofi log-size quantities or l local, state and fede DA TDG) sium nitrate Reporta	essional handling or	ations may a contract with	a licensed che	
Mobility in soil: No Other adverse effect Section 13 These disposal guid regulations may be Section 14 UN/NA number: Hazard class: 5.1 Exceptions: Limi Section 15	ts: An environmental hazard can Disposal Considerations delines are intended for the di different. Dispose of in accor Transport Information (US UN1486 Shipping n Packing gr ted quantity equal to or less Regulatory Information	sposal of cata dance with al <b>DOT / CANA</b> <b>ame:</b> Potas <b>oup:</b> III than 5 Kg	d in the event of unprofi log-size quantities or l local, state and fede DA TDG) sium nitrate Reportal 2016 ER	essional handling of ly. Federal regula ral regulations or <b>ble Quantity:</b> No	ations may a contract with	a licensed che	emical disposal agency.
Mobility in soil: No Other adverse effect Section 13 These disposal guiregulations may be Section 14 UN/NA number: Hazard class: 5.1 Exceptions: Limi Section 15 A chemical is considered	ts: An environmental hazard can Disposal Considerations delines are intended for the di different. Dispose of in accor Transport Information (US UN1486 Shipping n Packing gr ted quantity equal to or less Regulatory Information I to be listed if the CAS number for th	sposal of cata dance with al <b>DOT / CANA</b> <b>ame:</b> Potas <b>oup:</b> III than 5 Kg e anhydrous form	d in the event of unprofi log-size quantities or l local, state and fede DA TDG) sium nitrate Reportal 2016 ER	essional handling of Iy. Federal regula ral regulations or ole Quantity: No G Guide # 140	ations may a contract with	a licensed che	emical disposal agency. arine pollutant: No
Mobility in soil: No Other adverse effect Section 13 These disposal guid regulations may be Section 14 UN/NA number: Hazard class: 5.1 Exceptions: Limi Section 15	ts: An environmental hazard can Disposal Considerations delines are intended for the di different. Dispose of in accor Transport Information (US UN1486 Shipping n Packing gr ted quantity equal to or less Regulatory Information I to be listed if the CAS number for th	sposal of cata dance with al <b>DOT / CANA</b> <b>ame:</b> Potas <b>oup:</b> III than 5 Kg	d in the event of unprofi log-size quantities or l local, state and fede DA TDG) sium nitrate Reportal 2016 ER	essional handling of ly. Federal regula ral regulations or <b>ble Quantity:</b> No	ations may a contract with	a licensed che	emical disposal agency.

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