

SECTION 1 IDENTIFICATION

Company Name	Solutions 4Earth	24 HOUR EMERGENCY NUMBER/CHEMTREC (USA)
Address	931 American Pacific Drive, #104	1-800-424-9300
City, State, Zipcode	Henderson, NV 89014	
Phone Numbers	855-834-3882	Poison Control Center (USA)
Website	www.solutions4earth.com	1-800-222-1212
Product Identity	Komodo Pro	
Reference/Item Number	R30528	
Intended Use	See technical data sheet.	
Application Method	See technical data sheet.	
Recommended Use	Fertilizer for agricultural crops and turfgrass	

SECTION 2 HAZARD(S) IDENTIFICATION

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910. 1200). Using the toxicity data listed in Sections 11 and 12, the product is labeled as follows:

GHS Classification(s):	Serious Eye Damage/Eye Irritation Category 2B	<p>HAZARD COMMUNICATION STANDARD (HCS) PICTOGRAM(S)</p> <p><i>*This product contains no substances which at their given concentration are considered to be hazardous to health</i></p>
GHS Label Elements:		
Signal Word:	Warning	
Hazard Statements:	Causes eye irritation	
Precautionary Statements:		
Prevention:	Wash thoroughly after handling.	
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.	
Hazards Not Otherwise Classified:	Contains oxidizer. May ignite organic materials and react with other materials.	

Percentage of Components with Unknown Acute Toxicity:

Oral:	33.80%
Dermal:	37.10%
Inhalation Vapor:	37.10%
Inhalation Dust/Mist:	37.10%

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substances/Mixtures:

Chemical or Common Name/Synonyms	CAS Number	% by Wt.
Poasstium Nitrate	7757-79-1	< 5 %

Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

SECTION 4 FIRST AID MEASURES

[DESCRIPTIONS]:

Eye Contact:	If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention. Remove contact lenses if worn.
Skin Contact:	If on skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. Wash with soap and water.
Inhalation:	If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.
Ingestion:	If swallowed: If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
Most Important Symptoms/Effects, Acute and Delayed:	
Eye Contact:	Causes mild to moderate irritation. May cause: irritation, redness, pain. Prolonged contact may cause: inflammation.

Skin Contact: May cause mild to moderate irritation. Contact may cause: irritation, redness, itching, pain.

Skin Absorption: No absorption hazard expected under normal use.

Inhalation: May cause moderate irritation. May irritate: respiratory tract. Chronic exposure may cause: methemoglobinemia.

Ingestion: May cause mild to severe irritation. May cause: nausea, vomiting, diarrhea, gastroenteritis. Rare cases of nitrates being converted to the more toxic nitrites have been reported, mostly with infants.

Indication of Immediate Medical Attention and Special Treatment Needed: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Water. Dry chemical. Foam. Alcohol resistant foam.

Special Hazards: No information available.

Fire and Explosion Hazards: None known. Increases the flammability of combustible, organic and readily oxidizable materials. Can ignite these and many organic materials such as wood, solvents, etc. Strong oxidants may explode when shocked, or if exposed to heat, flame or friction. May act as an initiation source for dust or vapor explosions. Contact with combustible materials or reducing agents may cause a fire. Sensitive to mechanical impact.

Hazardous Combustion Products: Irritating and highly toxic gases. Potassium oxides. Nitrogen oxides. Toxic metal fumes. Carbon dioxide. Carbon monoxide.

Special Protective Equipment & Precautions for Firefighters: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Containers may explode in the heat of a fire. Run-off from fire control may cause pollution.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

Methods and Material For Containment and Cleaning Up: Do not touch or walk through spilled material. DO NOT use combustible materials such as sawdust. Use non-sparking tools and equipment. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

SECTION 7 HANDLING AND STORAGE

Precautions For Safe Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Protect against physical damage. Protect from moisture. Avoid contact with combustible materials, wood and organic materials. Avoid storage on wood floors or near wooden walls, etc.. Empty containers retain product residues; observe all warnings and precautions listed for the product. Do not use aluminum equipment for storage and/or transfer.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

Component	Limits
No components found.	

ACGIH Exposure Guidelines:

Component	Limits
No components found.	

Engineering Controls: General room ventilation and local exhaust are required. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Individual Protection Measures:

Eye/Face Protection: Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Chemical-resistant. Impervious. Respiratory protection may be required to avoid overexposure when handling this product. If vapors, dust or mist are present, wear: NIOSH-Approved respirator. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Respiratory Protection: Eye-wash station. Safety shower. Protective clothing.

Other Protective Equipment: Wash thoroughly with soap and water after handling. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use. Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

General Hygiene Conditions:

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Green	Upper Flammability Limits:	No data available
Odor:	Mild Odor	Lower Flammability Limits:	No data available

Odor Threshold: No information available
pH: 6.35 (as is)
Physical State: Liquid
Melting/Freezing Points (°C): No data available
Initial Boiling Point/Range (°C): No data available
Flash Point: No data available
Evaporation Rate (Ether=1): No data available
Flammability (Solid, Gas): No data available
Specific Gravity @ 30°C: 1.28
Other Information: No other relevant information.

Vapor Pressure (Pa): No data available
Vapor Density: No data available
Solubility in Water: Soluble
Partition Co-efficient n-octanol/water (Log Kow): No data available
Auto-Ignition Temperature (°C): No data available
Decomposition Temperature: No data available
Viscosity (cSt): No data available
VOC %: No data available
Density, g/ml @ 25°C: No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions.
Conditions To Avoid: Avoid heat, flame, and other possible sources of ignition. Avoid heat or high temperatures.
Incompatible Materials: Strong oxidizing agents. Strong bases. Heavy metals. Phosphites. Organic compounds. Carbonaceous materials. Combustible materials. Reducing agents. And many other substances. Strong acids.
Hazardous Decomposition Prod.: Nitrogen oxides. Carbon oxides. Irritating and/or toxic gases. Nitrogen. Potassium oxides. Toxic metal fumes.

SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Exposure: Eyes. Ingestion. Inhalation. Skin.
Symptoms/Effects:
Acute, Delayed and Chronic:
Eye Contact: Causes mild to moderate irritation. May cause: irritation. redness. pain. Prolonged contact may cause: inflammation.
Skin Contact: May cause mild to moderate irritation. Contact may cause: irritation. redness. itching. pain.
Skin Absorption: No absorption hazard expected under normal use.
Inhalation: May cause moderate irritation. May irritate: respiratory tract. Chronic exposure may cause: methemoglobinemia.
Ingestion: May cause mild to severe irritation. May cause: nausea. vomiting. diarrhea. gastroenteritis. Rare cases of nitrates being converted to the more toxic nitrites have been reported, mostly with infants.
Numerical Measures of Toxicity:

Acute Toxicity:	Ingredients	Oral LD50 mg/kg	Skin LD50mg/kg	Inhalation Vapor/Dust/Mist LD50mg/L/4hr
	Potassium Nitrate	Rat: 3015 mg/kg	No Data	No Data

Cancer Information: This product contains 0.1% or more of the following chemicals listed by NTP, IARC or OSHA as known or possible carcinogens: Nitrates
Medical Conditions Aggravated by Exposure to Product: None
Other: Chronic: Under some circumstances methemoglobinemia occurs in individuals when the nitrate is converted by bacteria in the stomach to nitrite. Nausea, vomiting, dizziness, rapid heart beat, irregular breathing, convulsions, coma, and death can occur should this conversion take place. Chronic exposure to nitrites may cause anemia and adverse effects to kidney.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.
Chemical Fate Information: No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

Hazardous Waste Number: N/A
Contaminated Packaging: Dispose of in accordance with all local, state and federal regulations. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14 TRANSPORT INFORMATION

DOT (Department of Transportation):
Proper Shipping Name: Not regulated by the DOT.

SECTION 15 REGULATORY INFORMATION

TSCA Inventory Status: This product or all components of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

SARA Title III Section 311/312 Category Hazards:

Immediate (Acute): Yes

Delayed (Chronic): No

Fire Hazard: No

Pressure Release: No

Reactive: No

Regulated Components:

Potassium Nitrate CAS Number: 7757-79-1

CERCLA RQ: No

SARA EHS: No

SARA 313: Yes*

U.S. HAP: No

WI HAP: No

Prop 65: No

***Prop 65 - May Contain the Following Trace Components:** *This product may contain a detectable level of (a) chemical(s) subject to California proposition 65.*

Note: * Reportable as nitrate compounds.

SECTION 16

OTHER INFORMATION

Health Rating System

Health: 1

Flammability: 0

Reactivity: 0

* = Chronic Health Hazard

NEPA Rating System:

Health: 1

Flammability: 0

Reactivity: 0

Special Hazard: None

SDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

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