## OFI TESTING EQUIPMENT, INC. MATERIAL SAFETY DATA SHEET

	SECTION I - PRODUCT AND COMPANY IDENTIFICATION				
Chemical Name: Trade Name: OFI Part No. Formula:	POTASSIUM NITRATE REAGENT A.C.S., CRYSTAL Potassium Nitrate Crystals 253-53 KNO <sub>3</sub>				
Manufacturer:	OFI Testing Equipment, Inc. 1006 West 34 <sup>th</sup> Street Houston, TX 77018 U.S.A. (713) 880-9885				
In Case of Emergency Spills, Leaks, Fire, Exposure or Accident:	In the USA, call INFOTRAC at 1-800-535-5053 day or night Outside the USA, call collect, (352) 323-3500				
	SECTION II - COMPOSITION / INFORMATION ON INGREDIENTS				
<u>CAS #:</u> 7757-79-1	CHEMICAL NAME Potassium Nitrate 100%				
	SECTION III - HAZARD IDENTIFICATION				
Emergency Overview:	Danger! Strong Oxidizer. Contact With Other Material May Cause Fire. Harmful If Swallowed, Inhaled Or Absorbed Through Skin. Causes Irritation To Skin, Eyes And Respiratory Tract.				
Inhalation:	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.				
Ingestion:	Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May cause gastroenteritis and abdominal pains. Purging and diuresis can be expected. Rare cases of nitrates being converted to the more toxic nitrites have been reported, mostly with infants.				
Skin:	Causes irritation to skin. Symptoms include redness, itching, and pain.				
Eye Contact:	Causes irritation, redness, and pain.				
Chronic Exposure:	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.				
Aggravated by Exposure:	No Information Found.				
	SECTION IV - FIRST AID MEASURES				
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.				
Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.				
Skin:	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.				
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.				

	SECTION V - FIRE FIGHTING MEASURES					
Fire:	Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.					
Explosion:	Some nitrates may explode when shocked, exposed to heat or flame, or by spontaneous chemical reaction. Sealed containers may rupture when heated. Sensitive to mechanical impact.					
Fire Extinguishing Media:	Dry chemical, carbon dioxide, Halon, water spray, or fog. If water is used, apply from as far a distance as possible. Water spray may be used to keep fire exposed containers cool. Do not allow water runoff to enter sewers or waterways.					
Special Information:	Wear full protective clothing and breathing equipment for high-intensity fire or potential explosion conditions. This oxidizing material can increase the flammability of adjacent combustible materials.					
	SECTION VI - ACCIDENTAL RELEASE MEASURES					
	Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal					
	protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not					
	disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and					
	prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container					
	SECTION VII - HANDLING AND STORAGE					
	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical					
	damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors.					
	Separate from incompatibles, combustibles, organic or other readily oxidizable materials.					
	Containers of this material may be hazardous when empty since they retain product residues					
	(dust, solids); observe all warnings and precautions listed for the product.					
Ventilation Systems	SECTION VIII - EXPOSURE CONTROL / PERSONAL PROTECTION					
ventilation System.	as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.					
Airborne Exposure Limits:	None Established.					
	For conditions of use where exposure to dust or mist is apparent and engineering controls are					
Personal Respirators:	not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil					
(NIOSH APPROVED)	particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face					
	positive-pressure, air-supplied respirator. Warning: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.					
Skin Protection:	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.					
Eye Protection:	Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.					
	SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES					
Appearance / Odor:	White Crystals, odorless					
Solubility:	36 gm/100 ml water					
Specific Gravity:	2.1					
pH: % Velatiles by Vela	ca. /					
Melting Point:	333°C (631°F)					
Boiling Point:	400°C (752°F)					
Vapor Density (Air=1):	3.00					
Vapor Pressure (mmHg):	Negligible @ 20°C					

	SECTION X - STABILITY AND REACT	ΓΙVITY						
General Reactivity:	Stable under ordinary conditions of use and storage.							
Hazardous Decomposition:	Oxides of nitrogen and toxic metal fumes may	Oxides of nitrogen and toxic metal fumes may form when heated to decomposition.						
Incompatibilities:	Heavy metals, phosphites, organic compounds	Heavy metals, phosphites, organic compounds, carbonaceous materials, strong acids, and many						
-	other substances.							
Hazardous Polymerization:	Will not occur.							
	SECTION XI - TOXICOLOGICAL INFO	RMATION						
Carcinogenic References:	NTP Carcinogen - Known: No. IARC Category	- None						
	SECTION XII - ECOLOGICAL INFORMATION							
Environmental Fate:	No information found.							
Environmental Toxicity:	No information found.	No information found.						
	SECTION XIII - DISPOSAL CONSIDERATIONS							
	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and							
	sent to a RCRA approved waste facility. Processing, use or contamination of this product may							
	change the waste management options. State and local disposal regulations may differ from							
	federal disposal regulations. Dispose of container and unused contents in accordance with							
	federal, state and local requirements.							
	SECTION XIV - TRANSPORT INFORMATION							
Shipping Name:	POTASSIUM NITRATE							
Hazard Class:	5.1							
Identification No.:	UN1486; Packing Group: III							
	SECTION XV - REGULATORY INFORMATION							
Chemical Inventory Status –	Ingredient		TSCA EC	C Japan	Australia			
Part 1:								
	Potassium Nitrate (7757-79-1)		ies ie	es res	ies			
Chemical Inventory Status –				Canada-				
Part 2:	Ingredient		Korea	DSL NDS	SL Phil.			
	Potassium Nitrate (7757-79-1)		Yes	Yes No	o Yes			
Federal, State & International	Turunali ant	-SARA 30	)2	SARA	313			
Regulations – Part 1:		RQ 1						
	Potassium Nitrate (7757-79-1)	No	No	No Nit	rate Cmpd			
Federal State & International					-TSCA-			
Regulations – Part 2:	Ingredient		CERCLA	261.33	8(d)			
Chemical Weapons	Potassium Nitrate (7757-79-1)		No	No	No			
Convention:	No							
TSCA 12 (b):	No							
CDTA:	No							
SARA 311/312	Acute: Yes Chronic: Yes Fire: Yes Pressure: No Reactivity: No (Pure / Solid)							
Australian Hazchem Code:	1 [T]							
Poison Schedule:	None allocated.							
	SECTION XVI - OTHER INFORMATION							
NFPA Rating:	HEALTH-1 FLAMMABILITY-0 REACTIVITY-	3						
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Disclaimer:	The information contained herein is based upon data believed to be reliable and reflects our best							
	professional judgment. Although reasonable care has been taken in the preparation of this							
	document, we extend no warranties and make no representations as to the accuracy or							
	completeness of the information contained therein and assume no responsibility regarding the							
	suitability of this information for the user's intended purpose or for the consequence of its use.							
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	particular purpose(s).							