Date Issued: November 3, 2004		Version: 2.0		Revision Issued: January 30, 2014		
Section I – Product a	and Company lo	dentificatior	n			
INTREPID POTASH*		INTREPID F 707 17 th St. Denver, CO Office 303-2 Fax 303-298 Web <u>http://w</u> EMERGENCIES: HEALTH EMERG	INTREPID POTASH – MOAB, LLC 707 17 th St. Suite 4200 Denver, CO 80202 Office 303-296-3006 Fax 303-298-7502 Web http://www.intrepidpotash.com/Contact.aspx EMERGENCIES: CALL (800)424-9300 (CHEMTREC) HEALTH EMERGENCIES: CONTACT YOUR LOCAL POISON CENTER			
Common Name: Granula	r Potash For	mula: KCI	Synon	ym: Muria	te of Potash	Use: Fertilizer
Section II – Hazard I	dentification					
	GHS07	Hazard	Category	Hazard Code	Health	Hazard Statement
Classification - ()	~	Eye Irritation	2A	H319	Can cause serio	ous eye irritation.
substance or mixture:		Skin Irritation	3	H316	Can cause mild	skin irritation.
		Respiratory Irritation	3	H335	May cause resp	piratory irritation.
l abel Flements:	GHS07	Ingestion	5	H303	May be harmful	if swallowed
Laber Liements.		Hazard Statements	H315 H320 H335 H303	Causes sk wounds). May cause May be ha	tin and eye irritation e respiratory irritatio armful if swallowed.	n (especially in open on.
			P280	Wear prot	ective clothing (see	Section VII).
	Signal Word: WARNING	Precautional Statements	ry P305 s P351 P338	IF IN EYE minutes. F do. Contin	S: Rinse cautiously Remove contact lens ue rinsing.	with water for several ses, if present and easy to
I				·		
NFPA	Health 1 Special Hazard	Flammabil 0 Instabili	HMIS ity		Health Flammability Physical Haz Personal Pro	ard 0 tection E
Carcinogenicity Lists:	IARC Monograph: N	NO NTP: NO	OSHA:	No		

Section III – Composition/Information on Ingredients										
					Exposur	e Limits				
Chemical Name(s)	CAS No.	OSHA	A PEL	TLV -	TWA	ST	EL	CE	IL	% by
		mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	Weight
Potassium Chloride	7447-40-7	15 / 5*		10**						95-99.8
Sodium Chloride	7647-14-5	15 / 5*		10**						0.1-4
Calcium Sulfate	7778-18-9	15 / 5*		10**						0.2-2.5

May contain up to 0.25% base lubrication oil and/or 0.03% neutralized primary aliphatic amines.

**Total Dust / Respirable dust

*Based on ACGIH nuisance dust limits.

Section IV -	- First Aid Measures
Eyes:	Rinse cautiously with water for several minutes. Flush with water, including under upper & lower lids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention/advice if pain and Irritation persists.
Skin:	Wash thoroughly with water. Obtain medical advice/attention if irritation persists.
Ingestion:	A large body load may cause vomiting, diarrhea, cramps, tingling in hands and feet, weak pulse, and circulatory disturbances. Administer water if patient is conscious. Ingesting potash will usually cause purging of the stomach by vomiting. Get Medical attention.
Inhalation:	If individual is experiencing respiratory discomfort or irritation. Remove to fresh air. If discomfort or irritation persists, get medical attention/advice.

Section V – Fire Fi	ighting	Measures		
Flash Point:		None	Auto-ignition Temperature:	Not Applicable
Lower Explosive Limit:		Not Applicable	Upper Explosive Limit:	Not Applicable
Unusual Fire and	When su	bjected to extremely h	nigh temperatures, it may release small quantities of a	chlorine gas.
Explosion Hazards:				
Extinguishing Media:	As required for surrounding fire. Potash is non-flammable and does not support combustion.			
Special Firefighting	ial Firefighting Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving			efighting activities involving
Procedures and Equipment: hazardous materials. Full structural firefighting (bunker) gear is the minimum acceptable attire. The		um acceptable attire. The		
	need for proximity, entry, flashover and/or special chemical protective clothing (see Section 8) needs			thing (see Section 8) needs
		to be determined for each incident by a competent firefighting safety professional. Water used for fire		
	suppression and cooling may become contaminated. Discharge to sewer system(s) or environment			system(s) or environment
		may be restricted, rec	quiring containment and proper disposal of water.	

Section VI –	Accidental Release Measures
Small Spill:	Sweep up and use as fertilizer if non-contaminated.
Large Spill:	Collect with appropriate equipment. If on a hard surface, sweep up residue with brooms. If on soil, remove and collect the top 5 cm of soil.
Release Notes:	Potash is highly soluble and can be quickly diluted below the toxic level by relatively large amounts of water. Potash which has entered a small non-permanent pond should be removed by pumping the pond dry. If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number, 800-424-8802. In case of accident or road spill notify: CHEMTREC IN USA AT 800-424-9300; CANUTEC in Canada at 613-996-6666 CHEMTREC in other countries at (International code)+1-703-527-3887.
Comments:	See Section XIII for disposal information and Section XV for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically gualified personnel.

Section VII – Handling and Storage			
Ventilation:	Local exhaust to reduce dust concentrations below recommended levels.		
Handling:	Avoid generating dust by excessive or unnecessary movement.		
Storage:	Store in a dry location. Avoid contact with aluminum or carbon steel to minimize corrosion		

Section VIII – Exposure Controls/Personal Protection

Engineering Controls:

s: May be necessary to minimize dust levels.

Personal Protection:	
Eye Protection:	Use tight-fitting safety goggles in areas of high dust concentration.
Protective Clothing:	Gloves, long sleeve shirts and long pants. Launder work clothing regularly
Respiratory Protection:	Minimum NIOSH approved N95 filter type dust respirators until engineering controls are implemented.
Other Protective Clothing or Equipment:	Optional

Section IX – Physical and Chemical Properties

Appearance/Color/Odor: White granules to 4mm in size. Granules may have a slight oily odor.			
Melting Point/Range	: 778°C	Boiling Point:	1500°C(sublimates)
Solubility in Water:	99.5 – 99.999% ; 34.2 g/100ml @20ºC	Boiling Point/Range:	1420 - 1500ºC
Specific Gravity:	2.0 (H ₂ O = 1)	Vapor Pressure (mmHg):	Not Applicable
Vapor Density:	Not Applicable	Molecular Weight:	74
Bulk Density:	70-72 lbs/ft3	% Volatiles:	< 0.5
pH:	8 – 9 (solution)	Evaporation Rate:	Not Applicable
Viscosity:	Not applicable		

Section X – Stability and Reactivity	
Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None
Materials to Avoid (Incompatibilities):	Strong Oxidizing Agents, Strong Acids & Protect From Moisture.
Hazardous Decomposition Products:	None

Section XI Toxicological Inf	ormation			
Significant Routes of Exposure:	Eyes, skin, inhalation, ingestion			
Toxicity to Animals:	Oral LD50 (mouse, rat): 1500 – 2600 mg/kg			
Acute Inhalation Toxicity:	No data available			
Acute Toxicity: Other Routes:	No data available			
Acute Dermal Toxicity:	No data available			
Repeated Dose Toxicity:	No data available			
Eye & Skin Irritation/Corrosion:	No data available			
	Not expected to be toxic by dermal exposure	e as defined by OSHA		
	Developmental Toxicity/Teratogenicity:	No data available		
	Bacterial Genetic Toxicity In-Vitro Gene	(Saccaromyces cerevisiae) - Mitotic recombination:		
Special Remarks on Toxicity to	Mutation:	NOAEL = 300 mM.		
Animals:	Non-Bacterial Genetic Toxicity In-Vitro	No data available		
	Chromosomal Aberration:			
	Toxicity to Reproduction:	No data available		
	Carcinogenicity:	No data available		
Other Effects on Humans:	Large doses by mouth can cause gastrointe	stinal irritation, purging, weakness and circulatory		
	disturbances. Potassium chloride used as a	dietary supplement in food for human consumption is		
	generally recognized as safe (GRAS).			
Special Remarks on Chronic	Not reported to be carcinogenic mutagenic, teratogenic or allergenic.			
Effects on Humans:				
Special Remarks on Other	None			
Effects on Humans:				

Section XII – Ecc	ological Information	
	Acute Toxicity to Fish:	96 hour LC 50 (rainbow trout) 2010mg/L
	Chronic Toxicity to Fish:	No data available
	Acute Toxicity to Aquatic	48 hour EC50 (crustacean/daphnia) 337 mg/L
	Invertebrates:	(Physaheterostropha) - 96 hrs - LC50 = 940 mg/L.
	Chronic Toxicity to Aquatic	
	Invertebrates:	
	Toxicity to Aquatic Plants:	72 hour ErC 50 (aquatic plants) 2500 mg/L.
		NEOL (aquatic plants) 0.6 g/L.
Ecotoxicity:		((Nitzschia linearis)diatom) - 5 days- 120 hour TLm = 1,337 ppm KCl;
		(Scendesmus subspicatus) 72 hour - EC50 = 2,500 mg/L.
		(Chlorella vulgaris) - 3 – 4 months - NOEC = 600 mg KCl/L, LOEL =
		700 mg KCl/L.
	Toxicity to Bacteria:	No data available
	(activated sludge):	
	Toxicity to Soil Dwelling	No data available
	Organisms:	
	Toxicity to Terrestrial Plants:	No data available
Environmental	Stability in Water:	Dissolves in water and disassociates into K and Cl ions. Will remain in
Fate:		solution until solubility product (350 g/L) reached. Ions may be absorbed by
		plants or by animals ingesting water containing potash.
	Stability in Soil:	Binds to clay particles.
	Transport and Distribution:	1.51 x 10 ⁻⁸ % to air; 45.2% to water; 54.7% to soil; 0.0755% to sediment
Toxicity:	Non-toxic to aquatic organisms a	s defined by USEPA
Degradation	Chloride and potassium ions.	

Section XIII – Disposal Considerations

Product Disposal:	Uncontaminated product may be used as fertilizer. Otherwise, dispose according to Federal State or
	Provincial regulations in a landfill approved to receive potash.
General Comments:	Because of its solubility, potash should not be disposed of in a location where run-off will escape.

Section XIV – Transportation Information		
	USDOT	TDG - Canada
Proper Shipping Name:	Not Regulated	Not Regulated
Hazard Class:		
Identification Number:		
Packing Group (Technical Name)		
Labeling/Placarding:		
Authorized Packaging:		
Notes:		
European Transportation:		

UNITED STATES: SARA Hazard Category: This product has been reviewed according to the EPA Hazard Categories promulgated under Section of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, und definitions, to meet the following categories: Fire: No Pressure Generating: No Reactivity: No Acute: No Chro 40 CFR Part 355 - Extremely Hazardous Substances: 40 CFR Part 370 - Hazardous Chemical Reporting: All intentional ingredients listed on the TSCA inventory. SARA Title III This product contains the following substances subject to the reporting requirements of Title III(EPCR. Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Chemical CAS No. Percent by CERCLA RQ SARA (1986) F				
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40 CFR Part 355 – Extremely Hazardous Substances: 40 CFR Part 370 – Hazardous Chemical Reporting: All intentional ingredients listed on the TSCA inventory. SARA Title III Information: This product contains the following substances subject to the reporting requirements of Title III(EPCR). Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Chemical CAS No. Percent by CERCLA RQ SARA (1986) F	nic: <u>No</u> .			
SARA Title III This product contains the following substances subject to the reporting requirements of Title III(EPCR Information: Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Chemical CAS No. Percent by CERCLA RQ SARA (1986) F	40 CFR Part 355 – Extremely Hazardous Substances: 40 CFR Part 370 – Hazardous Chemical Reporting: All intentional ingredients listed on the TSCA inventory.			
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Chemical CAS No. Percent by CERCLA RQ SARA (1986) F	Information: Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:			
Weight (lbs) 311 312				
Potassium Chloride 7447-40-7 95-99.8 NA No No				
Sodium Chloride 7647-14-5 0.1-4 NA No No	No			
Calcium Sulfate 7778-18-9 0.2-2.5 NA No No	No			
CERCLA/Superfund, 40 CFR Parts 117,302:If this product contains components subject to substances designated a CERCLA Reportable Quantity (RQ) Substances, it will be designated in the above table with the RQ value in pounds. If there is a release of RQ Substance to the environment, notification to the National Response Center, Washington D.C. (1-800-424-8802) is required.				
CANADA:				
WHMIS Hazard Symbol and Classification:Not controlledIngredient Disclosure List:This product does not contain ingredient(s) on this list.Environmental Protection:All intentional ingredients are listed on the DSL (Domestic Substance List).				
Section XVI – Other Information				
NFPA Hazard Rating: Health 1 Fire 0 Reactivity 0 Special Hazards				
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme Comments: None				

Section(s) changed since last revision: SDS is designed to comply with U.S. DOL: OSHA and MSHA HazCom standards in effect on the revision date

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief as of the revision date noted below. This information is not a warranty or quality specification. The user of the product is solely responsible for determining the suitability of use in each particular situation. This information relates only to the specific material designated and may not be valid for the material used in combination with any other materials or in any process. The user of the product assumes all risks and responsibilities in connection with the use of the product, and Intrepid will not be responsible for any damages relating to the use of the product.

(Revision Date 01/14)