SAFETY DATA SHEET - Trio® Products

Date Issued: September 1, 2005 Version: 2.0 Revision Issued: January 30, 2014

Section I - Product and Company Identification



INTREPID POTASH – NEW MEXICO, LLC 707 17th 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: Granular Trio®, OMRI Trio® Certified Special Standard, OMRI Trio® Granular, Premium Trio®, Special Standard Trio®, Standard Trio®

Formula: K₂SO₄ MgSO₄ Synonym: Sulfate of Potash Magnesia – All Grades Use: Crop Nutrient and Animal Feed

Section II – Hazar d Ic		•	1		<u>'</u>		
	GHS07	Hazard	Category	Hazard Code	Health Hazard Statement		
Classification (^	Eye Irritation	2A	H319	Can cause serious eye irritation.		
Cl assif icat ion of the substance or mixture:		Skin Irritation	3	H316	Can cause mild skin irritation.		
	•	Respiratory Irritation	3	H335	May cause respiratory irritation.		
		Ingestion	5	H303	May be harmful if swallowed		
Label Elements:	GHS07						
	_	Harand	H315 H320	Causes skir wounds).	and eye irritation (especially in open		
		Hazard	H335	May cause	respiratory irritation.		
		Statements	H303	May be har	harmful if swallowed.		
			P280	Wear prote	ar protective clothing (see Section VII).		
	Signal Word:	Precautionary Statements		IF IN EYES: Rinse cautiously with water for several			
	WARNING		P351 P338	, , , , , , , , , , , , , , , , , , ,			
NFPA	Health 0	Flammabilit	HMIS		Health 1		
		0			Flammability 0		
				Physical Hazard 0			
	Special Hazard	Instabilit	y		Personal Protection E		
Carcinogenicity Lists: IA	RC Monograph: No	o NTP: No	OSHA:	No .			

Section III - Composition/Information on Ingredients										
					Exposu	re Limits				
Chemical Name(s)	CAS No.	OSHA	A PEL	TLV -	TWA	ST	EL	CE	EIL	% by
		mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m³	ppm	Weight
Potassium Magnesium	14977-37-8	15 / 5*		10**						88-99.8
Sulfate (Langbeinite)										
Sodium Chloride	7647-14-5	15 / 5*		10**						0.5-12

^{**}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 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.

Flash Point:		None	Auto-ignition Temperature:	Not Applicable		
Lower Explosive Limit:		Not Applicable	Upper Explosive Limit:	Not Applicable		
Unusual Fire and	When s	subjected to extremely high to	emperatures, it may release small quantities of	chlorine gas.		
Explosion Hazards:						
Extinguishing Media:	As requ	ired for surrounding fire. Po	tash is non-flammable and does not support co	mbustion.		
Special Firefighting		Positive pressure, self-cor	ntained breathing apparatus is required for all fi	refighting activities involving		
Procedures and Equipm	ent:	hazardous materials. Full structural firefighting (bunker) gear is the minimum acceptable attire. The				
		need for proximity, entry,	flashover and/or special chemical protective clo	othing (see Section 8) needs		
to be determined for each incident by a competent firefighting safety professional. Water used for						
		suppression and cooling r	may become contaminated. Discharge to sewer	system(s) or environment		
		may be restricted, requirir	ng 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:	Sulfate of Potash Magnesia is highly soluble and can be quickly diluted below the toxic level by relatively large amounts of water. Sulfate of Potash Magnesia 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 qualified 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 - Exp	Section VIII - Exposure Control s/Personal Protection				
Engineering Controls:	May be necessary to minimize dust levels.				
Personal Protection:	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		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		Optional			

Section IX - Physi	Section IX – Physical and Chemical Properties						
Appearance/Color/Odor:	White to gray, crystalline to granular.						
Melting Point/Range:	1700°F	Boiling Point:	1500°C(sublimates)				
Solubility in Water:	Approximately 24.4% @ 77°F (25°C)	Boiling Point/Range:	1420 - 1500°C				
Specific Gravity:	$1.988 (H_2O = 1)$	Vapor Pressure (mmHg):	Not Applicable				
Vapor Density:	Not Applicable	Molecular Weight: sulfate)	415 (for potassium magnesium				
Bulk Density:	2.81-2.85	% Volatiles:	< 0.5				
pH:	7 – 9 (in 5% solution)	Evaporation Rate:	Not Applicable				
Viscosity:	Not applicable						

Section X – Stabil ity 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:	Combustion can yield oxides of sulfur when heated above 1000°F (537°C).			

Section XI Toxicol ogical	Inf or mation						
Significant Routes of Exposure:	Eyes, skin, inhalation, ingestion						
Toxicity to Animals (Sodium	Rat, oral, LD50 =3 g/kg; Mouse, oral, LD50 = 4g/kg						
Chloride):	Rat, LC50 > 42 g/m ³ /1hour						
	Rabbit, Eye: 100 mg/24 hour, moderate	e irritant					
	Rabbit, Eye: 500 mg/ 24 hour, mild irrita						
	No skin irritation data located for sodiur						
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						
	Based on toxicity data for another salt compound (i.e. potassium nitrate). Not expected to be						
	toxic by dermal exposure as defined by OSHA						
	Developmental Toxicity/Teratogenicity: No data available						
Special Remarks on Toxicity to	Bacterial Genetic Toxicity In-Vitro Gene	(Saccaromyces cerevisiae) - Mitotic recombination:					
Animals:	Mutation:	NOAEL = 300 mM.					
Allillais.	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	estinal 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 - I	Ecol ogical Info	r mation					
	Acute Toxicity to		Vhen dissolved in water	er, sodium chloride	creates an e	levated leve	l of salinity
			nat may be harmful to				
			alt-tolerant.				
	Chronic Toxicity t		lo data available				
	Acute Toxicity to	Aquatic N	lo data available				
	Invertebrates:						
Ecotoxicity:	Chronic Toxicity t	o Aquatic N	lo data available				
Lootoxioity.	Invertebrates:	- Diameter N	lo data available				
	Toxicity to Aquati	o i idiito.					
	Toxicity to Bacter (activated sludge)		lo data available				
	Toxicity to Soil D		lo data available				
	Organisms:	veiling	io data avallable				
	Toxicity to Terres	trial Plants: N	lo data available				
Environmental	Stability in Water:		When dissolved in water	er sodium chloride (creates an e	levated level	of salinity
Fate:	Clubinty in Water.		nat maybe harmful to f				•
			alt-tolerant.	. oon mator aquatio	op 00.00 aa		
	Stability in Soil:		lo data available				
Toxicity:	Non-toxic to aquati						
Degradation	Chloride and potas		•				
Section XIII -	Disposal Consideration	der at ions					
Product Disposal:			oduced, is not an RCR				
	Contamination may subject it to hazardous waste regulations. Properly characterize all waste materials.				erials.		
		Consult State and local regulations regarding the proper disposal of this material.					
General Comments	: Because of its	solubility, potash	should not be dispose	ed of in a location wh	here run-off	will escape.	
Section XIV -	Tr ansport ation	Inf or matic	on				
333113117417	Tr direpor tution	····· o· ···ac···					
			USDOT		TDG	- Canada	
Proper Shipping Na	ıme:		Not Regulated		Not F	Regulated	
Hazard Class:							
Identification Numb	er:						
Packing Group (Ted	chnical Name)						
Labeling/Placarding							
Authorized Packagi	ing:						
Notes:							
European Transpor	tation:						
Section XV - I	Regul at or y Info	or mation					
UNITED STATES:	togui atoi y iiii c						
	This was direct been been		dian to the FDA Hone	ud Catananiaa uusus		Caatian 24	4 and 040
SARA Hazard Category:	-		ding to the EPA Haza authorization Act of 19	•	•		
Category.	definitions, to meet th			oo (SAINA TILLE III) a	and is consid	erea, ariaer	applicable
		ssure Generatin		vity: No Acu	ıte: Yes	Chronic	: <u>No</u> .
	<u> </u>		<u> </u>	710 /10	<u> 100</u>	_	. <u>110</u> .
	40 CFR Part 355 – E	-					
	40 CFR Part 370 – H						
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(EPCRA) of the							of the
SARA Title III Information:		_	rization Act of 1986 ar			III(EFCKA)	oi lii e
ormanon.	Chemical	CAS No.	Percent by	CERCLA RQ		(1986) Rep	orting
	Jiloinioai	JAJ 110.	Weight	(lbs.)	311	312	313
	Potassium Magnesium	14977-37-8	88-99.8	NA	No	No	No
	Sulfate (Langbeinite)	14077-07-0	33 33.0	14/7	110	140	1,40
·			0.5-12	NA	1	No	No

CERCLA/Superfund,	If this product contains components subject to substances designated a CERCLA Reportable Quantity (RQ)				
40 CFR Parts 117,302:	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.				
TSCA:	Sodium Chloride is listed in the TSCA Inventory. Potassium Magnesium Sulfate (langbeinite) is a				
	naturally-occurring chemical substance processed only by mechanical means that is exempted from				
	TSCA listing per 40 CFR, PART 710.26(d).				
CANADA:					
WHMIS Hazard Symbol a	Not controlled				
Classification:					
Ingredient Disclosure Lis	This product does not contain ingredient(s) on this list				
Environmental Protectio	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 = Insigr	ificant	1 = Slig	ght	2 = Moderate	3 = High	4 = Extreme	
Comments: None								
Section(s) changed since last revision:			designe	d to con	nply with U.S. Do	OL: OSHA a	and MSHA HazCon	n 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)