SAFETY DATA SHEET - Trio® Products

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Section I - Product and Company Identification



INTREPID POTASH – NEW MEXICO, LLC

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EMERGENCIES: Call (800) 424-9300 (CHEMTREC)

HEALTH EMERGENCIES: CONTACT YOUR LOCAL POSION CENTER

Common Name: Granular Trio®, Standard Trio®, Premium Trio®, Fine Standard Trio®, Special Standard Trio®, OMRI Listed Granular Trio®, OMRI Listed Standard Trio®, OMRI Listed Fine Standard Trio®

Formula: K₂SO₄ MgSO₄ Synonym: Sulfate/Sulphate of Potash Magnesia – All Grades

Use: Crop Nutrient and Animal Feed

OWRI Listed Fine Standar	u 1110®					
Section II – Hazard Identification						
	GHS07	Hazard	Category	Hazard Code	Health Hazard Statement	
Classification of the	^	Eye Irritation	2A	H319	Can cause serious eye irritation.	
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					
		Hazard	H315 H320	Causes ski wounds).	in and eye irritation (especially in open	
		Statements	H335	_	ay cause respiratory irritation.	
	\ <u>'</u>	Otatements	H303	May be harmful if swallowed.		
			P280	Wear protective clothing (see Section VII).		
	Signal Word: WARNING		P305 P351 P338		S: Rinse cautiously with water for several emove contact lenses, if present and easy to ue rinsing.	
					<u> </u>	
NFPA	I I III-	Element 19th	HMIS			
	Health	Flammability			Health 1	
	0	0			Flammability 0	
					Physical Hazard 0	
	Special Hazard	Instability	N.		Personal Protection E	
Carcinogenicity Lists: IA	ARC Monograph: No	NTP: No	OSHA: No)	1	

Section III – Composition/Information on Ingredients										
Chemical Name(s)	CAS No.	Exposure Limits					% by			
	07101101	OSHA	A PEL	TLV -	TWA	ST	EL	CE	EIL .	Weight
		mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	
Potassium Magnesium Sulfate (Langbeinite)	14977-37-8	15 / 5*		10**						88-99.8
Sodium Chloride	7647-14-5	15 / 5*		10**						0.5-12

^{**}Total Dust / Respirable dust
*Based on ACGIH nuisance dust limits.

4004 01171001111	disance dust iimits.
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.

Section V – Fire F	Section V – Fire Fighting Measures				
Flash Point: None Upper Explosive Limit:	Auto-ignition Temperature: Not Applicable Not Applicable Lower Explosive Limit: Not Applicable				
Unusual Fire and Explo	Unusual Fire and Explosion Hazards: When subjected to extremely high temperatures, it may release small quantities of chlorine gas.				
Extinguishing Media:	As required for surrounding fire. Potash is non-flammable and does not support combustion.				
Special Firefighting Procedures and Equipm	Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials. Full structural firefighting (bunker) gear is the minimum acceptable attire. The need for proximity, entry, flashover and/or special chemical protective clothing (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 may be restricted, requiring 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 - Ex	posure Controls/Personal	Protection

Engineering Controls:	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 to gray, pale pink, crystalline to gra	anular.		
Melting Point/Range:	1700°F	Boiling Point:	1500°C(sublimates)	
Solubility in Water:	Approximately 99.0% @ 77°F (25°C)	Boiling Point/Range:	1420 - 1500°C	
Specific Gravity:	1.988 (H ₂ O = 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 – 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:	Combustion can yield oxides of sulfur when heated above 1000°F (537°C).

Section XI Toxicological In	formation				
Significant Routes of Exposure:	Eyes, skin, inhalation, ingestion				
Toxicity to Animals (Sodium Chloride):	Rat, oral, LD50 = 3 g/kg; Mouse, oral, LD50 = 4g/kg Rat, LC50 > 42 g/m³/1hour Rabbit, Eye: 100 mg/24 hour, moderate irritant Rabbit, Eye: 500 mg/ 24 hour, mild irritant No skin irritation data located for sodium chloride				
Acute Inhalation Toxicity:	No data available				
Acute Toxicity: Other Routes:	No data available				
Acute Dermal Toxicity:	No data available	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				
Special Remarks on Toxicity to	Developmental Toxicity/Teratogenicity:	No data available			
Animals:	Bacterial Genetic Toxicity In-Vitro Gene Mutation:	(Saccaromyces cerevisiae) - Mitotic recombination: NOAEL = 300 mM.			
	Non-Bacterial Genetic Toxicity In- Vitro Chromosomal Aberration:	No data available			
	Toxicity to Reproduction:	No data available			
	Carcinogenicity: No data available				
Other Effects on Humans:	Large doses by mouth can cause gastrointestinal 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 Effects on Humans:	Not reported to be carcinogenic mutagenic, teratogenic or allergenic.
Special Remarks on Other Effects on Humans:	None

Section XII - Eco	ological Information					
	Acute Toxicity to Fish:	When dissolved in water, sodium chloride creates an elevated level of salinity that may be harmful to fresh water aquatic species and to plants that are not salt-tolerant.				
Ecotoxicity:	Chronic Toxicity to Fish:	No data available				
	Acute Toxicity to Aquatic Invertebrates:	No data available				
	Chronic Toxicity to Aquatic Invertebrates:	No data available				
	Toxicity to Aquatic Plants:	No data available				
	Toxicity to Bacteria: (activated sludge):	No data available				
	Toxicity to Soil Dwelling Organisms:	No data available				
	Toxicity to Terrestrial Plants:	No data available				
Environmental Fate:	Stability in Water:	When dissolved in water, sodium chloride creates an elevated level of salini that maybe harmful to fresh water aquatic species and to plants that are not salt-tolerant.				
	Stability in Soil:	No data available				
Toxicity:	Non-toxic to aquatic organisms as defined by USEPA					
Degradation	Chloride and potassium ions.					

Section XIII - Disposal Considerations						
Product Disposal: This material, if discarded as produced, is not an RCRA "listed" or "characteristic" hazardous waste.						
	Contamination may subject it to hazardous waste regulations. Properly characterize all waste materials. Consult State and local regulations regarding the proper disposal of this material.					
	Consult State and local regulations regarding the proper disposal of this material.					
General Comments:	Because of its solubility, potash should not be disposed of in a location where run-off will escape.					

	USDOT	TDG - Canada
Proper Shipping Name:	Not Regulated	Not Regulated
Hazard Class:		
Identification Number:		
Packing Group (Technical Name)		
Labeling/Placarding:		
Authorized Packaging:		

Section XV – Regulatory Information

UNITED STATE	=5:								
SARA Hazard Category:	This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable								
	definitions, to meet the following categories:								
	Fi	ire: <u>No</u>	Pressure Generatin	g: <u>No</u> Rea	ctivity: <u>No</u> A	cute: Yes	<u>Chronic</u>	c: <u>No</u>	
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(EPCRA) of the Information: Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:									
		Chemical	CAS No.	Percent by	CERCLA RQ	SARA	SARA (1986) Reporting		
				Weight	(lbs.)	311	312	313	
	Potassium Magnesium Sulfate (Langbeinite) Sodium Chloride			88-99.8	NA	No	No	No	
			de 7647-14-5	0.5-12	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.									
TSCA:	,	natu	ium Chloride is listed in thur in the control of th	substance process	•	•	•		

Section XVI – Other Information							
NFPA Hazard Rating:	Health	1	Fire	0	Reactivity	0	Special Hazards
	_						
	_		_				
	0 = Insigr	nificant	1 = Sli	ght	2 = Moderate	3 = High	4 = Extreme
Comments: None							
Section(s) changed since las	t revision:	SDS is o	designed	to com	ply with U.S. DOL	: OSHA and	d MSHA HazCom standards in effect on
the revision date.							

All intentional ingredients are listed on the DSL (Domestic Substance List).

This product does not contain ingredient(s) on this list

CANADA:

Classification:

WHMIS Hazard Symbol and

Ingredient Disclosure List:

Environmental Protection:

Not controlled

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 08/16)