SAFETY DATA SHEET – Magnesium Chloride Brine

Date Issued: February 19, 2024 Version: 1.0 Revision Issued:

Section I - Product and Company Identification



 ${\sf INTREPID\ POTASH-NEW\ MEXICO,\ LLC}$

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Common Names: Magnesium Chloride Brine

Formula:

NaCl-MgCl2-KCL H₂O Synonym: 10.5 lb Magnum

Brine

Use: Industrial

Section II – Hazard Identification				
GHS-US Classification	Code: H320	Category 2B		
GHS-US Labeling:				
Signal Word:	Warning			
Hazard Statement:	H320: Causes Eye Irritation			
Precautionary Statements	P264: Wash hands thoroughly after handling P305+P351+P338: If in eyes rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.			
	P337+P313: If eye irritation persists get medical advice/attention			

Section III – Composition/Information on Ingredients										
Chemical Name(s) CAS No. Exposure Limits										
Griorinour Humo(o)	OAO III.	OSHA	A PEL	TLV -	TWA	ST	EL	CE	EIL	% by
		mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	mg/m³	ppm	Weight
Water	7732-18-5									60.5 – 82.5
Magnesium Chloride	7786-30-3									12.0 - 25.0
Sodium Chloride	7647-14-5	15 / 5*		10**						4.0 - 8.0
Potassium Chloride	7447-40-07	15 / 5*		10**						1.5 – 6.5

^{**} 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 bodily load may cause vomiting, diarrhea, cramps, tingling in hands and feet, weak pulse, and circulatory disturbances. Administer water to the patient. 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 Fighting Measures

Flash Point: None Auto-ignition Temperature: Not Applicable Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Extinguishing Media: As required for surrounding fire. Brine is non-flammable and does not support combustion.

Special Firefighting Procedures and Equipment:

Full structural firefighting (bunker) gear for a surrounding fire as for any fire - no special gear or procedures necessary. Discharge to sewer system(s) or environment may be restricted, requiring containment and proper disposal of water.

Section VI	– Accidental Release Measures
Small Spill:	If on a hard surface, absorb with spill control materials and dispose of soaked materials appropriately. If on soil, remove and collect any soil dampened by the spill.
Large Spill:	Collect with appropriate equipment. If on a hard surface, absorb with spill control materials and dispose of soaked materials appropriately. If on soil, remove and collect any soil dampened by the spill.
Release Notes:	Spilled Brine can be quickly diluted below the toxic level shown in Section XI by relatively large amounts of water. Prevent spilled materials from entering sewers, storm drains and other unauthorized treatment drainage systems. 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:	Optional	
Handling:	Avoid prolonged contact to skin where possible. Clean spillage on floors and walkways immediately to prevent injuries.	
Storage:	Avoid contact with aluminum or carbon steel to minimize corrosion.	

Section VIII - Exposure Controls/Personal Protection				
Engineering Controls:	May be necessary to minimize contact exposure.			
Personal Protection:	Personal Protection:			
Eye Protection:		Use tight-fitting safety goggles.		
Protective Clothing:		Gloves, long sleeve shirts and long pants. Launder work clothing regularly		
Respiratory Protection:		Optional		
Other Protective Clothing or Equipment:		Optional		

Section IX – Physical and Chemical Properties						
Appearance/Color/Odor:	Appearance/Color/Odor: Clear to amber colored liquid					
Melting Point/Range:	Not Applicable	Boiling Point:	Not Applicable			
Solubility in Water:	Not Applicable	Boiling Point/Range:	Not Applicable			
Specific Gravity:	1.25 – 1.32	Vapor Pressure (mmHg):	Not Applicable			
Vapor Density:	Not Applicable	% Volatiles:	No Data Available			
Bulk Density:	74-77 lbs/ft³ (1185-1230 kg/m³)	Evaporation Rate:	No Data Available			
pH:	7 to 8	Viscosity:	No Data Available			

Section X – Stability and Reactivity		
Stability:	Stable.	
Hazardous Polymerization:	Will not occur.	
Conditions to Avoid:	May be corrosive to metals.	
Materials to Avoid (Incompatibilities):	Incompatible with strong acids, caustics, ammonia, and cyanides.	
Hazardous Decomposition Products:	Under normal applications and conditions decomposition should not occur. Slow heating may release free chlorine gas above 320°F/160°C. Avoid contact with strong acids, as chlorine gas may evolve.	

Section XI Toxicological Information				
Significant Routes of Exposure:	Eyes, skin, inhalation, ingestion			
Substance:	Magnesium Chloride, Sodium Chloride			
Acute Oral Toxicity:	Rat, oral, LD50 >3000 mg/kg Mouse, oral, LD50 > 4000 mg/kg			
Acute Inhalation Toxicity:	Rat, LC50 > 42 g/m ³ /1hour			
Acute Dermal Toxicity:	No data available			
Eye & Skin Irritation:	Rabbit, Eye: 100 mg/24 hour, moderate irritant Rabbit, Eye: 500 mg/ 24 hour, mild irritant			
Substance:	Magnesium Chloride, Sodium Chloride			
Acute Oral Toxicity:	No data available			
Acute Inhalation Toxicity:	No data available			
Acute Dermal Toxicity:	No data available			
Eye & Skin Irritation:	No data available			

Section XII – Ecological Information				
	Acute Toxicity to Fish:	When dissolved in water, Magnesium Chloride/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.		
	Chronic Toxicity to Fish:	No data available		
	Acute Toxicity to Aquatic Invertebrates:	No data available		
	Chronic Toxicity to Aquatic Invertebrates:	No data available		
Ecotoxicology:	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, Magnesium Chloride creates an elevated level of salinity 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			
Degradation	Chloride, Potassium and Magnesium Ions			

Section XIII - Disposal Considerations		
Product Disposal:	This material, if discarded as produced, is not a 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.	
General Comments:	This material should not be disposed of in a location where run-off will escape.	

Section XIV – Transportation Information			
Proper Shipping Name:	Not Applicable		
Hazard Class:	Not Applicable		
Identification Number:	Not Applicable		
Packing Group (Technical Name)	Not Applicable		

Section XV – Regulatory Information

UNITED STATES:

SARA Hazard This product has been reviewed according to the EPA Hazard Categories promulgated under Section 311 and 312

Category: of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable

definitions, to meet the following categories:

Fire: $\underline{\text{No}}$ Pressure Generating: $\underline{\text{No}}$ Reactivity: $\underline{\text{No}}$ Acute: $\underline{\text{No}}$ Chronic: $\underline{\text{No}}$

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 Weight	CERCLA RQ (lbs.)
Water	7732-18-5	60.5 – 82.5	N/A
Magnesium Chloride	7786-30-3	12.0 - 25.0	N/A
Sodium Chloride	7647-14-5	4.0 - 8.0	N/A
Potassium Chloride	7447-40-07	1.5 – 6.5	N/A

TSCA:	Sodium Chloride and Potassium Chloride are listed in the TSCA Inventory.
CANADA:	DSL: Yes NSDL: Not Listed
WHMIS Hazard Symbol and Classification:	Not controlled
Ingredient Disclosure List:	This product does not contain ingredient(s) on this list

Section XVI – Other Information							
NFPA Hazard Rating:	Health: <u>1</u>	Flammability: <u>0</u>	Instability: <u>0</u>	Special Hazard: <u>N/A</u>			
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme							
HMIS Hazard Rating:	Health: 1	Flammability: 0	Physical Hazard: 0	PP: B			
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme							
B = safety glasses and gloves							
Comments: None							

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

Section(s) changed since last revision: None - Initial version

Environmental Protection:

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 2/24)