## SAFETY DATA SHEET – Magnesium Chloride Solution

Date Issued: April 10, 2020	ued: April 10, 2020 Ve		/ersion: 1.0		Revised: July 9, 2020	
Section I – Product and Company	Identificatio	on				
INTREPID		INTREPID POTASH – New Mexico, LLC 1001 17 <sup>th</sup> Street, Suite 1050 Denver, CO 80202 Office 303-296-3006 Fax 303-298-7502 Web <u>http://www.intrepidpotash.com/Contact.aspx</u>				
		EMERGENCIES: Call (800) 424-9300 (CHEMTREC)				
		HEALTH EMER	GENCIES: C	CONTACT YOUR LO	OCAL POSION CENTER	
Common Name: Magnesium Chloride Solution, Intrepid Road Guard	Formula: MgC	il2:H2O	Synonym:	Mag Chloride	Use: Industrial	

Section II – Hazard Identification				
GHS07	Not Applicable Not Applicable			
Lab Elements:				
Prevention:	Not Applicable			
Response:	Not Applicable	Not Applicable		
Storage:	Not Applicable	Not Applicable		
Disposal:	Not Applicable	Not Applicable		

Section III – Composition/Information on Ingredients										
Chemical Name(s)	CAS No.			Exposure Limits						
		OSH/	A PEL	TLV -	TWA	ST	EL	CE	EIL	% by
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	Weight
Magnesium Chloride	7786-30-3									25 - 30
Water	7732-18-5									65 - 75

Section IV – F	irst 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:	Administer water if patient is conscious. Ingesting MgCl2 brine 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-igni         Upper Explosive Limit:       Not Applica	tion Temperature: <u>Not Applicable</u> Lower Explosive Limit: <u>Not Applicable</u> able		
Extinguishing Media: As require	d for surrounding fire. MgCl2 is non-flammable and does not support combustion.		
Special Firefighting Procedures and Equipment:	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 exposed to soluble fertilizer. 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 dust suppressant if non-contaminated by foreign materials.
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:	MgCl2 is highly soluble and can be quickly diluted below the toxic level by relatively large amounts of water. MgCl2 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 -	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 small leaks.		
Personal Protection:			
Eye Protection:	Use tight-fitting safety goggles in areas of high concentration.		
Protective Clothing:	Gloves, long sleeve shirts and long pants. Launder work clothing regularly.		
Respiratory Protection: Optional		Optional	
Other Protective Clothing or Equipment: Optional			

## Section IX – Physical and Chemical Properties

Appearance/Color/Odor: Clear liquid with a slight amber color at times.				
Melting Point/Range:	-13ºF	Boiling Point:	245°F	
Solubility in Water:	38% at 120⁰F; 49ºC, 45% at 290⁰F; 143⁰C	Boiling Point/Range:	245°F	
Specific Gravity:	1.3	Vapor Pressure (mmHg):	0.5 psia @ 100ºF	
Vapor Density:	Not Applicable	% Volatiles:	<0.5	
Bulk Density:	See Specific Gravity	Evaporation Rate:	Not applicable	
pH:	6.0-8.0	Viscosity:	Not applicable	

Section X – Stability and Reactivity		
Stability:	Stable.	
Hazardous Polymerization:	Will not occur	
Conditions to Avoid:	Solutions can be aggressively corrosive	
Materials to Avoid (Incompatibilities):	Metals will experience slight corrosion over time. Incompatible with sulfuric and nitric acids, caustics, ammonia, and cyanides. A hazardous reaction involving magnesium chloride and 2-furan carboxylic acid has been reported.	
Hazardous Decomposition Products:	Slow heating may release free chlorine gas above 320°F;160°C. Avoid contact with strong acids, as chlorine gas may evolve. Under normal applications, decomposition should not occur.	

Section XI Toxicological Information		
Significant Routes of Exposure:	Eyes, skin, inhalation, ingestion	
Substance:	1agnesium Chloride	
Acute Oral Toxicity:	LD50 (mouse, rat): 2800 mg/kg	
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:	Not Established. Breakdown of MgCl2 forms ions commonly found in nature.	
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:	Miscible in water and disassociates into Mg and Cl ions. Ions may be absorbed by plants or by animals ingesting water containing salt.	
	Stability in Soil:	Binds to clay particles	
Toxicity:	Non-toxic to aquatic organisms as defined by USEPA		
Degradation	Chloride and Magnesium Ions		

Section XIII – Disposal Considerations			
	This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste.		
Product Disposal:	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:	Because of its miscibility, Magnesium Brines 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 STATE	S:							
SARA Hazard Category:	<ul> <li>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:</li> <li>Fire: No Pressure Generating: No Reactivity: No Acute: No Chronic: No</li> </ul>							
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.)				
Magnesium Chl	oride	7789-30-3	25-30	NA				
Water		7732-18-5	65-75	NA				

TSCA:	Listed in the TSCA Inventory.			
CANADA:	SL: Yes NSDL: Not Listed			
WHMIS Hazard Symbol and Classification:	Not controlled			
Ingredient 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 Inf	ormation				
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	3 = High 4 = Extreme		
HMIS Hazard Rating:	Health: 1	Flammability: 0	Physical Hazard: 0	PP: E	
	0 = Insignificant	1 = Slight 2 = Moderate 3	3 = High 4 = Extreme		
	0 10		0		
	E = safe	ety glasses, gloves and dus	t respirator		
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.

(Original Issue Date 04/2020)