SDS NO. 215 Effective Date: April 30, 2015

Revision Date:

I. Product and Company Information									
Product Name:	Magnesium Sulfate Solution	Synonym:	MAG						
Chemical Name:	emical Name: Magnesium Sulfate		CAS Number:	7487-88-9					
Manufacturer's Na	me:		Emergency Contacts:						
Southern Ionics Inco	orporated		Afterhours (Southern Ionics) 1-888-610-2379						
579 Commerce Stre	et								
West Point, MS 397	73		For Chemical Emergency, Spill or Accident						
Customer Service: 1-800-953-3585			Call CHEMTREC at 1-800-424-9300						
Web Site www.sout	thernionics.com		CHEMTREC CO	CN - 20596					

II. Hazard Identification							
OSHA HCS / GHS Classifica	tion(s):		Hazard Statement(s):				
Not classified under GHS Ru	les		May cause mild eye irritation.				
The dry or solid form of this	chemical maybe	e classified in some					
jurisdictions.			May be harmful if inhaled.				
			May be harmful if swallowed.				
Signal Word:	Precautionar	y Statement(s):					
Not Applicable	Prevention:	See Section VIII. Pe	ersonal Protective Equipment.				
Symbol(s):							
Not Applicable	Response: See Section IV. First Aid Measures.						

III. Composition / Information on Ingredients							
Chemical Name: CAS Reg #'s %							
Magnesium Sulfate (MgSO ₄)	7487-88-9	17-28					
Water	7732-18-5	Balance					

IV. First Aid Measures							
Eyes: Immediately flush eyes with running water for at least 15 minutes, keeping ey							
	open. Cold water may be used. Check for and remove any contact lenses. Seek						
	medical attention, if you feel unwell.						
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and						
	water. Seek medical attention, if you feel unwell.						
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical						
	attention, if you feel unwell.						
Ingestion:	If large amounts of this material are swallowed, DO NOT induce vomiting unless						
	directed to do so by a physician. If small amounts of this material are swallowed,						
	rinse mouth and seek medical attention, if you feel unwell.						

V. Fire Fighting Measures								
NFPA Hazard Rating:	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)				
NFPA nazaru Rating:	1	0	0	None				
NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme								
Extinguishing Media:	Extinguishing Media: Use extinguishing media appropriate for surrounding fire.							
Special Firefighting Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to								
Procedure:	keep containers	keep containers cool and to knock down fumes.						

VI. Accidental Release Measures							
Precaution if Spilled or Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.						
Neutralizing Chemicals:	None						

VII. Handling and Storage							
Handling:	Handle all chemicals with respect. Keep separated from incompatible substances. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product.						
Storage:	Store at appropriate temperature to protect from freezing or crystallization. Consult the appropriate SII Product Bulletin for temperature recommendations. Do not store this material near food, animal feed, or drinking water. Store in well ventilated area. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials. Keep container tightly closed when not in use						

VIII	VIII. Exposure Control / Personal Protective Equipment							
Component Workplace Control Parameters:								
Components:	CAS	S-No.	Value	Parameters	Basis	3		
No Data Available								
Engineering Controls	:					engineering controls to ke	•	
						spective threshold limit valu		
General Hygiene:						sing this material, especial	ly before eating,	
		drinking, smoking, or using the toilet.						
Personal Protection	ı Eqı	ipment:						
Eye:		Use chemical splash goggles and face shield.						
Skin:		Chemically resistant gloves should be worn whenever this material is handled.						
Respiratory:		None req	uired un	der normal con	ditions			
Other Protective Item	ıs:	Where splash is possible, full chemically resistant protective clothing and boots are						
		recommended. Ensure that eyewash stations and safety showers are proximal to						
	the work-station location.							
		Health (Blue) Flammability (Red) Physical Hazard (Yellow) PPE (White					PPE (White)	
HMIS Classification:	ion: 1 0 See Above						See Above	
Hazard Cla	ssifi	cation: 0 =	= Minim	al 1=Slight	2= Mo	derate 3= Serious 4= Se	vere	

SDS NO. 215 Effective Date: April 30, 2015 Revision Date: Page 2 of 4

IX. Physical and Chemical Properties									
Physical State:	Liquid	pH:	5.0 to 8.0						
Appearance:	Light colorless solution	Molecular Weight:	120 for MgSO ₄						
Odor:	Odorless	Odor Threshold:	No Data Available						
Specific Gravity:(H ₂ O=1)	1.18 to 1.32	Weight per Gallon:	9.8 to 11.0 lbs.@ 77°F/ 25°C						
	@ 77°F/25°C								
Vapor Density: (Air=1)	Similar to water	Vapor Pressure:	Similar to water						
Boiling Point:	220°F/ 104°C	Freezing/Melting Point:	28°F/ -2°C						
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable						
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable						
Solubility in water:	Appreciable								
Other:									

X. Stability and Reactivity Data							
Chemical Stability:	Product is stable under normal or expected use.						
Conditions To Avoid:	None						
Incompatible Materials:	None						
Hazardous products of	None						
Decomposition:							

XI. Toxicological Information							
Routes of Entry:			⊠ Eyes □ Skin ⊠ Ingestion ⊠ Inhalation				
Sign and symptoms of Exposure:			No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.				
Eye Contact:	May cause	irritation.	ı				
Ingestion:	May be har	rmful if sw	allowed.				
Skin Contact:	No known	adverse e	ffects.				
Inhalation:	May cause	respirato	ry tract ir	ritatio	n.		
Carcinogenicity:	NPT	Not Liste	ed	IARC	Not Listed	OSHA	Not Regulated
Ingredient Name Spe					Test	Route	Results
No Data Available							
Comments:	When teste	When tested for primary irritation potential, this material caused mild eye irritation.					

XII. Ecological Information									
Ingredient Name Species Test Period Results									
Magnesium Sulfate	Fathead minnow	Fathead minnow 2820 mg/l		LC50					
Magnesium Sulfate	Daphnia magna	343 mg/l	48 hrs	LC50					
Comments:			<u>. </u>						

XIII. Disposal Considerations		
Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.	

XIV. Transportation Information							
Proper Shipping Name:	Magnesium Sulfate Solution						
DOT Classification:	This material is not regulated hazardous material for transportation.						
Identification Number:	N/A	Packing Group:	N/A	Other Labels:	N/A		

SDS NO. 215 Effective Date: April 30, 2015 Revision Date: Page 3 of 4

XV. Regulatory Information							
Inventory Status:		US Regulations:					
U. S. TSCA	Yes	SARA 302 TPQ	Not Listed				
Europe EINECS	Yes	SARA 304 RQ	Not Listed				
Canadian DSL	Yes	SARA 313 List	Not Listed				
Japan ENCS	Yes	CERCLA (RQ)	Not Listed				
Korean KECI	Yes	RCRA 261.33	Not Listed				
Philippines PICCS	Yes						
Australian AICS	Yes						
		SARA 311/312	Acute Chronic	Fire Release of Pres	ssure 🗌 Reactive		
International Regulations				Other Regulations:			
Canada WHMIS	Not Listed			California PROP 65	No		
				FDA- GRAS	21 CFR 184.1443		
EINECS	231-867-5						

XVI. Other Information		
NSF Certification:		
Other:		
Revision Notes:		
MSDS Replacements:	SII MSDS - 006 Magnesium Sulfate Solution and SII MSDS - 017 Magnesium Sulfate	
	<u>Solution</u>	

SALES OFFICE

For Product Information: TEL: 662-494-3055

FAX: 662-494-2828

Post Office Drawer 1217 West Point, MS 39773

To Place An Order: TEL: 800-953-3585 FAX: 800-953-3588

IMPORTANT

Although the information contained is offered in good faith, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS OR IMPLIED) OR ANY GUARANTEE OF ITS ACCURACY OR SUFFICIENCY and is taken at the user's sole risk. User is solely responsible for determining the suitability of use in each particular situation. SII specifically DISCLAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including without limitation any recommendation which user may construe and attempt to apply which may infringe or violate valid patents, licenses, and/or copyright.

SDS NO. 215 Effective Date: April 30, 2015 Revision Date: Page 4 of 4