



SOUTHERN IONICS INCORPORATED (SII)
SAFETY DATA SHEET

SDS NO. 215
Effective Date: April 30, 2015
Revision Date: September 25, 2020

I. Product and Company Information

SII Product Name(s):	Magnesium Sulfate Solution (18%, 25%, & 27%)	Synonym:	MAG
Chemical Name:	Magnesium Sulfate	CAS Number:	7487-88-9
Manufacturer's Name: Southern Ionics Incorporated 579 Commerce Street West Point, MS 39773 Customer Service: 1-800-953-3585 Web Site: www.southernionics.com	Emergency Contacts: Afterhours (Southern Ionics): 1-888-610-2379 For Chemical Emergency, Spill, or Accident Call CHEMTREC at 1-800-424-9300 CHEMTREC CCN - 20596		

II. Hazard Identification

OSHA HCS / GHS Classification(s):		Hazard Statement(s):	
Not classified under GHS Rules.		May cause mild eye irritation.	
The dry or solid form of this chemical may be classified in some jurisdictions.		May be harmful if inhaled.	
		May be harmful if swallowed.	
Signal Word: Not Applicable	Precautionary Statement(s):		
	Prevention:	See Section VIII. Exposure Control / Personal Protective Equipment.	
Symbol(s): Not Applicable	Response:	See Section IV. First Aid Measures.	

III. Composition / Information on Ingredients

Chemical Name(s):	CAS Number(s):	%
Magnesium Sulfate	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 eyelids open. Cold water may be used. 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)
	1	0	0	None
NFPA Hazard Classification: 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme				
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.			
Special Firefighting Procedure:	Wear NIOSH-approved, self-contained breathing apparatus (SCBA). Use water spray to 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. Store away from excessive heat (e.g. steam pipes, radiators), and from reactive materials. Do not store this material near food, animal feed, or drinking water. Store in well-ventilated area. Keep container tightly closed when not in use.

VIII. Exposure Control / Personal Protective Equipment

Component Workplace Control Parameters:				
Components:	CAS Number	Value	Parameters	Basis
No Data Available				
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.			
General Hygiene:	Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet.			
Personal Protection Equipment:				
Eye:	Use chemical splash goggles and face shield.			
Skin:	Chemically resistant gloves should be worn whenever this material is handled.			
Respiratory:	None required under normal conditions.			
Other Protective Items:	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 location.			
HMIS Classification:	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	1	0	0	See Above
Hazard Classification: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe				

IX. Physical and Chemical Properties

Physical State:	Liquid	pH:	5.0 - 8.0
Appearance:	Clear, colorless	Molecular Weight:	120 for MgSO ₄
Odor:	Odorless	Odor Threshold:	No Data Available
Specific Gravity: (H₂O=1)	1.18 - 1.32 @ 77°F / 25°C	Weight per Gallon:	9.8 - 11.0 lbs. @ 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 Decomposition:	None

XI. Toxicological Information

Routes of Entry:	<input checked="" type="checkbox"/> Eyes <input type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> 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.						
Ingestion:	May be harmful if swallowed.						
Skin Contact:	No known adverse effects.						
Inhalation:	May cause respiratory tract irritation.						
Carcinogenicity:	Not Listed	NPT	Not Listed	IARC	Not Listed	OSHA	Not Regulated
Ingredient Name	Species	Test		Route		Results	
No Data Available							
Comments:	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	2820 mg/L	96 hrs	LC50
Magnesium Sulfate	Daphnia magna	343 mg/L	48 hrs	LC50
Comments:				

XIII. Disposal Considerations

Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.
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XIV. Transportation Information

Proper Shipping Name:	Magnesium Sulfate Solution				
DOT Classification:	Not regulated by USDOT				
Identification Number:	N/A	Packing Group:	N/A	Other Labels:	N/A
Comments:					

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	<input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive
International Regulations:			Other Regulations:
EINECS	231-867-5		California PROP 65 Not Listed
Comments:			FDA-GRAS 21 CFR 184.1443

XVI. Other Information

Other:	
Revision Notes:	<p>04.12.18 Section I. Product Name and Company Information, Product Name - added all products covered under the SDS. in the product name. Section IX. Physical and Chemical Properties, Appearance - revised wording. Section XV. Regulatory Information, International Regulations - removed Canada information.</p> <p>09.25.20 Reviewed as part of a 3-year review process. Updated logo and formatting.</p>
MSDS Replacements:	SII MSDS - 006 Magnesium Sulfate Solution and SII MSDS - 017 Magnesium Sulfate Solution

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

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