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1 Identification

· Product identifier

- · Trade name: Magnesium Sulfate 0.1M
- Product code: MG9422SS
- · Recommended use and restriction on use
- Recommended use: Laboratory chemicals
- · Restrictions on use: No relevant information available.
- · Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com
- Emergency telephone number: ChemTel Inc.
 (800)255-3924 (North America) +1 (813)248-0585 (International)

2 Hazard(s) identification

• Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).

· Label elements

- · GHS label elements Not regulated.
- · Hazard pictograms: None.
- · Signal word: None
- · Hazard statements: None.
- Precautionary statements: None.

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

7487-88-9 magnesium sulphate

7732-18-5 Water

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

· Description of first aid measures

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2% 98%

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	(Cont'd. of page
• General information: No special measures required.	
• After inhalation: Supply fresh air; consult doctor in case of complaints.	
After skin contact:	
Immediately rinse with water.	
If skin irritation is experienced, consult a doctor.	
After eye contact:	
Remove contact lenses if worn.	
Rinse opened eye for several minutes under running water. If symptoms persist	, consult a doctor.
After swallowing:	
Rinse out mouth and then drink plenty of water.	
Do not induce vomiting; immediately call for medical help.	
Most important symptoms and effects, both acute and delayed:	
Gastric or intestinal disorders when ingested.	
Nausea in case of ingestion.	
Diarrhea.	
Danger: No relevant information available.	
 Indication of any immediate medical attention and special treatment needed 	ed:
If medical advice is needed, have product container or label at hand.	

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation.

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

· Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Methods and material for containment and cleaning up Wipe up small spills with paper towel and discard.
 For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard.
 Send for recovery or disposal in suitable receptacles.
 Reference to other sections
 - See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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7 Handling and storage

Handling

- · Precautions for safe handling:
- Prevent formation of aerosols.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility:
- Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

- Store away from oxidizing agents.
- Further information about storage conditions: Keep containers tightly sealed.
- · Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

 Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

- Wash hands before breaks and at the end of work.
- · Engineering controls: Provide adequate ventilation.
- Breathing equipment: Not required under normal conditions of use.
- · Protection of hands:



Protective gloves

· Material of gloves

Neoprene gloves Butyl rubber, BR Natural rubber, NR Nitrile rubber, NBR

- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection:

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. • Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment No relevant information available.

9 Physical and chemical properties			
Information on basic physical and Appearance:	I chemical properties		
Form: Color: · Odor: · Odor threshold:	Liquid Clear, colorless Not determined. Not determined.		
 pH-value: Melting point/Melting range: Boiling point/Boiling range: 	Not determined. Not determined. 100-105 °C (212-221 °F)		
· Flash point:	The product is not flammable. Not applicable.		
· Flammability (solid, gaseous):	Not applicable.		
· Auto-ignition temperature:	Not determined.		
Decomposition temperature:	Not determined.		
· Danger of explosion:	Product does not present an explosion hazard.		
 Explosion limits Lower: Upper: Oxidizing properties: 	Not determined. Not determined. Not determined.		
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)		
 Density at 20 °C (68 °F): Relative density: Vapor density: Evaporation rate: 	1.04 g/cm ³ (8.68 lbs/gal) Not determined. Not determined. Not determined.		
 Solubility in / Miscibility with Water: 	Fully miscible.		
Partition coefficient (n-octanol/water)	: Not determined.		
 Viscosity Dynamic: Kinematic: Other information 	Not determined. Not determined. No relevant information available.		

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10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Excessive heat.
- · Incompatible materials No relevant information available.
- · Hazardous decomposition products
- Under fire conditions only:
- Possible in traces.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin:
- Causes mild skin irritation.
- Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

- Inhalation.
- Eye contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
- · Repeated dose toxicity: No relevant information available.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

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- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- · Additional ecological information
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packagings

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information		
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
 · UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA 	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA · Class	Not regulated.	
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	Not regulated.	
· Environmental hazards	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	k II of Not applicable.	

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5 Regulatory	information
mixture	h and environmental regulations/legislation specific for the substance
 United States SARA 	(USA)
•	xtremely hazardous substances):
None of the ing	redients are listed.
•	xtremely hazardous substances):
None of the ing	redients are listed.
· Section 313 (S	pecific toxic chemical listings):
None of the ing	redients are listed.
•	Substances Control Act)
	gnesium sulphate
7732-18-5 Wa	ter
· Proposition 6	
	own to cause cancer:
None of the ing	redients are listed.
	own to cause developmental toxicity for females:
None of the ing	redients are listed.
	own to cause developmental toxicity for males:
None of the ing	redients are listed.
	own to cause developmental toxicity:
None of the ing	redients are listed.
•	nental Protection Agency):
None of the ing	redients are listed.
•	ional Agency for Research on Cancer):
None of the ing	redients are listed.
· Canadian Don	nestic Substances List (DSL): (Substances not listed.)
All ingredients	are listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 DDS: Lethal dose, 50 percent
 PBT: Persistant, Bio-accumulable, Toxic

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Trade name: Magnesium Sulfate 0.1M (Cont'd. of page 7) vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health Administration · Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

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