According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

SECTION 1: Identification

Product identifier

Product name: Magnesium Sulfate Product code: MS6900

Recommended use of the product and restriction on use Relevant identified uses: Laboratory Chemicals

Uses advised against: Not determined or not applicable. Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer: United States AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

Emergency telephone number: United States ChemTel Inc +1(800)255-3924 +1(813)248-0585

SECTION 2: Hazard identification

GHS classification:

Combustible dust

Label elements

Hazard pictograms: None

Signal word: Warning

Hazard statements:

H900 May form combustible dust concentrations in air

Precautionary statements: None

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 10034-99-8	Magnesium sulfate, heptahydrate	100

Additional Information: None

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

SECTION 4: First-aid measures

Description of first-aid measures

General notes:

Not determined or not available.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

After skin contact:

Rinse affected area with soap and water If symptoms develop or persist, seek medical attention

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes If symptoms develop or persist, seek medical attention

After ingestion:

Rinse mouth thoroughly Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not available.

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Wear protective eye wear, gloves and clothing Refer to Section 8

Special precautions:

Avoid inhaling gases, fumes, dust, mist, vapor and aerosols Avoid contact with skin, eyes and clothing

SECTION 6: Accidental release measures

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation Ensure air handling systems are operational Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid breathing mist or vapor.

Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Respiratory protection:

When necessary, use NIOSH-approved breathing equipment.

General hygienic measures:

Wash hands before breaks and at the end of work. Avoid contact with skin, eyes and clothing.

SECTION 9: Physical and chemical properties

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

Information on basic physical and chemical properties

Appearance (physical state, color):	Colorless solid
Odor:	Odorless
Odor threshold:	Not determined or not available.
pH-value:	5 - 8.2 (5% aq.sol.)
Melting/Freezing point:	Not determined or not available.
Boiling point/range:	Not determined or not available.
Flash point:	Not determined or not available.
Evaporation rate:	Not determined or not available.
Flammability (solid, gaseous):	Not determined or not available.
Explosion limit upper:	Not determined or not available.
Explosion limit lower:	Not determined or not available.
Vapor pressure:	< 0.133 hPa (< 0.100 mmHg) at 20°C (68°F)
Vapor density:	Not determined or not available.
Density:	Not determined or not available.
Relative density:	1.67 g/cm3
Solubilities:	Soluble in water.
Partition coefficient (n-octanol/water):	Not determined or not available.
Auto/Self-ignition temperature:	Not determined or not available.
Decomposition temperature:	150°C
Dynamic viscosity:	Not determined or not available.
Kinematic viscosity:	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Incompatible materials. Dust generation. Excess heat.

Incompatible materials:

Strong oxidizing agents. Strong acids. Strong Bases.

Hazardous decomposition products:

Sulfur oxides and Magnesium oxide.

SECTION 11: Toxicological information

Acute toxicity

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Skin corrosion/irritation Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Serious eye damage/irritation Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Respiratory or skin sensitization Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Carcinogenicity Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. International Agency for Research on Cancer (IARC): None of the ingredients are listed. National Toxicology Program (NTP): None of the ingredients are listed. Germ cell mutagenicity Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. **Reproductive toxicity** Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Specific target organ toxicity (single exposure) Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Specific target organ toxicity (repeated exposure) **Assessment:** Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Aspiration toxicity Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available. Information on likely routes of exposure: No data available. Symptoms related to the physical, chemical and toxicological characteristics: No data available. Other information: No data available.

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met. Product data: No data available. Substance data: No data available.

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available. **Substance data:** No data available.

Bioaccumulative potential

Product data: No data available. **Substance data:** No data available.

Mobility in soil

Product data: No data available. Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11)

SECTION 14: Transport information

Canadian Transportation of Dangerous Goods (TDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 01.16.2018

Magnesium Sulfate

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

Canada regulations

Domestic substances list (DSL):

10034-99-8Magnesium sulfate, heptahydrateLi	_isted
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Non-domestic substances list (NDSL): Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 1-0-0

HMIS: 1-0-0-X

Initial preparation date: 01.16.2018

End of Safety Data Sheet

Page 7 of 7