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# SAFETY DATA SHEET

**K-Mag**

## Section 1. Identification

**GHS product identifier** : K-Mag (Potassium Magnesium Sulfate)  
**Product type** : Solid

### Uses

**Area of application** : Not Applicable

### Supplier

**Supplier's details** : Greenway Biotech, Inc.

### Address

**Street** : 10632 Painter Ave  
**Postal code** : 90670  
**City** : Santa Fe Springs  
**Country** : United States

**Telephone number** : +1 562-351-5168

**e-mail address of person responsible for this SDS** : sales@greenwaybiotech.com

**Emergency telephone number (with hours of operation)** : US: Chemtrec 24-hours Emergency Response: 1-800-424-9300  
Canada: 24 Hour Emergency Service, (Canutec 613-996-6666)

### National advisory body/Poison Center

**Name** : The National Poisons Emergency number  
**Telephone number** : 1 800 222 1222

## Section 2. Hazards identification

**GHS Classification** : Not applicable

**Prevention** : Not applicable

**Response** : Not applicable.

**Storage** : Not applicable

**Disposal** : Not applicable

**Other Hazards which do not require classification:** Handling and/or processing of this material may Generate dust which can cause mechanical irritation of the eyes, skin, nose and throat.

### Section 3. Composition/information on ingredients

Formula:  $K_2SO - 2MgSO_4$

Chemical Name	Cas – Number	% Content
Potassium Magnesium Sulfate	14977-37-8	94.5-99.5%
Sodium Chloride	7647-14-5	0.5-2.0%

### Section 4. First aid measures

**Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention.

**Eye contact:** Move victim away from exposure and into fresh air. Flush eyes with plenty of clean water for at least 15 minutes. If symptoms persist, seek medical attention.

**Skin contact:** Wash contaminated area thoroughly with mild soap and water. If chemical or solution soaks through clothing, remove clothing and wash contaminated skin. If irritation develops and persists after washing, seek medical attention.

**Ingestion:** If large amounts are swallowed, seek emergency medical attention. If possible do not leave the victim unattended and observe closely for adequacy of breathing.

**Notes to physician:** None known.

### Section 5. Fire Fighting Measures

**Extinguishing Media:** Use extinguishing agent suitable for type of surrounding fire.

**Protection of Firefighters:**

No unusual fire or explosion hazards are expected. Combustion can yield oxides of sulfur when heated above 1000°F (537°C).

Positive pressure, self-contained breathing apparatus is required for all firefighting activities involving hazardous materials. 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 contaminated. Discharge to sewer system(s) or the environment may be restricted, requiring containment and proper disposal of water (see Section 6).

### Section 6. Accidental release measures

**Response Techniques:** Stay upwind and away from spill (dust hazard). Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Notify appropriate federal, state, and local agencies as may be required (see Section 15). Minimize dust generation. Sweep up and package appropriately for disposal. Large spills can harm or kill vegetation.

## Section 7. Handling and storage

### Precautions for safe handling:

The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 8). Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing or shoes. Use personal hygiene practices.

### Conditions for safe storage:

Use and store this material in dry, well-ventilated areas. Store only in approved containers. Keep container(s) tightly closed. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Material may absorb moisture from the air.

## Section 8. Exposure controls / personal protection

### Engineering measures:

Use process enclosure, general dilution ventilation or local exhaust systems were necessary to maintain airborne dust concentration below the OSHA standards or in accordance with applicable regulations.

### Hygiene measures:

Wash thoroughly after handling, use adequate ventilation.

### Respiratory:

A NIOSH approved air purifying respirator with type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed if workplace conditions warrant a respirator.

### Skin:

The use of cloth or leather work gloves is advised to prevent skin contact, possible irritation and absorption.

### Eyes/Face:

Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended.

### Other:

A source of clean water should be available in the work area for flushing eyes and skin.

### Exposure Guidelines:

OSHA Permissible Exposure Limits:

Particles not otherwise regulated:

5 mg/m<sup>3</sup> TWA (respirable);

15 mg/m<sup>3</sup> TWA (total)

ACGIH Threshold Limit Value (TLV):

Particles not otherwise specified:

3 mg/m<sup>3</sup> TWA (respirable);

10 mg/m<sup>3</sup> TWA (inhalable)

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## Section 9. Physical and chemical properties

<b>Appearance</b>	:	White and pink to grey crystalline or granular
<b>Odor</b>	:	None
<b>Odor Threshold</b>	:	No data available
<b>Physical State</b>	:	Crystalline or granular solid
<b>pH</b>	:	Approx. 7 in a 5% solution
<b>Melting Point/ Freezing Point</b>	:	972°C (1700°F)
<b>Boiling point</b>	:	Not applicable
<b>Flash Point</b>	:	Not applicable
<b>Vapor Pressure (mm Hg)</b>	:	Not applicable
<b>Vapor Density (air=1)</b>	:	Not applicable
<b>Specific Gravity or Relative Density</b>	:	2.82-2.85
<b>Bulk Density</b>	:	Loose 83-94 lbs/ft <sup>3</sup> (1300 – 1505 kg/m <sup>3</sup> )
<b>Solubility in Water</b>	:	Approximately 24.4% @ 77°F (25°)
<b>Partition Coefficient</b>	:	No data available
<b>Auto Ignition Temperature</b>	:	Not applicable
<b>Decomposition Temperature</b>	:	No data available
<b>Evaporation Rate</b>	:	No data available
<b>Flammability</b>	:	Not applicable
<b>Upper/lower flammability</b>	:	Not applicable
<b>Viscosity</b>	:	No data available
<b>Volatility</b>	:	Not applicable

## Section 10. Stability and Reactivity

<b>Chemical Stability</b>	:	Stable under normal conditions of storage and handling.
<b>Conditions to avoid</b>	:	Mildly corrosive to metals in the presence of moisture.
<b>Incompatible Materials</b>	:	
<b>Hazardous Decomposition products</b>	:	Strong Oxidizing agents, strong acids
<b>Corrosiveness</b>	:	Mildly corrosive to metals in the presence of moisture.
<b>Hazardous Polymerization</b>	:	Will not occur

## Section 11. Toxicological information

### Substance: Potassium Magnesium Sulfate

Acute oral toxicity	:	No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available

### Substance: Sodium Chloride

Acute oral toxicity	:	LD <sub>50</sub> (rat, oral)>3000 mg/kg LD <sub>50</sub> (mouse, oral)>4000 mg/kg
Acute inhalation toxicity	:	LC <sub>50</sub> (rat)>42 g/m <sup>3</sup> / 1 hour
Acute Dermal toxicity	:	No data available
Mutagenesis	:	No Data available
Developmental toxicity	:	No Data available
Target Organ	:	No Data available
Carcinogenicity	:	No Data available

## Section 12. Ecological Information

**Ecotoxicology:** When dissolved in water, sodium chloride creates an elevated level of salinity that may be harmful to fresh water aquatic species and to plants that are not salt-tolerant.

## Section 13. Disposal Considerations

Recover or recycle if possible. Properly characterize all waste materials. Consult federal, state/provincial and local regulations regarding the proper disposal of this material. Prevent material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

## Section 14. Transport information

Regulatory Status	:	Not regulated
Identification Number	:	HTS 3104.90.01
Hazard Class	:	Not applicable
Proper Shipping Name	:	Not applicable
Packing Group	:	Not applicable
DOT Emergency Response Guide Number	:	Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	:	Not applicable
MARPOL Annex V	:	Non-HME

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IMO/IMDG : Not applicable

## Section 15. Regulatory information

CERCLA: Not listed  
RCRA 261.33: Not listed

SARA TITLE III: (Exemptions at 40 CFR, Part 370 may apply for agricultural use, or for quantities of less than 10,000 pounds on-site.)

Section 302/304	:	Not listed
RQ	:	No
TPQ	:	No
Section 311/312	:	
Acute	:	No
Chronic	:	No
Fire	:	No
Pressure	:	No
Reactivity	:	No
Section 313	:	Not listed
NTP, IARC, OSHA	:	This material has not been identified as a carcinogen by NTP, IARC, or OSHA.
Canada DSL and NDSL	:	DSL: Yes NDSL: Not listed
TSCA	:	Listed on the TSCA Inventory
CA Proposition 65: (Health & Safety Code Section 25249.5)	:	WARNING: Cancer and reproductive Harm – <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
WHMIS	:	This SDS has been prepared according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

## Section 16. Other Information

### Disclaimer:

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### Preparation:

The preparation of this SDS was in accordance with ANSI Z400. 1-2010.

### Revision Date:

May 30, 2019

### SDS Number:

MOS 100042

**References:**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS) – 4<sup>th</sup> Edition 2011  
OSHA Hazard Communication Standard, 2012  
MARPOL Annex V; The Fertilizer Institute (TFTI), 2003; TOXNET  
Tomes, Toxnet, Grant (4<sup>th</sup> Ed.), RTECS

**Other Hazards Classifications:**

NFPA HAZARD CLASS	
Health:	1
Flammability:	0
Instability:	0
Special Hazard:	None

HMIS HAZARD CLASS	
Health:	1
Flammability:	0
Physical Hazard:	0
PPE:	Section 8

WHMIS 2015 (HPR) HAZARD CLASS	
Signal Word	N/A
Symbol	N/A
Classification	Not WHMIS Controlled
Hazard Statements	N/A

