

# SAFETY DATA SHEET



## K-Mag

### Section 1 - Product and Company Identification

**Product Name:** K-Mag  
**Company Information:** Turf-Shark Fertilizer Inc.  
P.O. Box 31009 Willow West  
Guelph ON N1H 8K1  
Office: 519-265-8863  
Fax: 519-265-3111  
**Emergency Telephone Number:** Canutec: 613-996-6666  
Chemtrec: 800-424-9300

### Section 2 - Hazards Identification

**Emergency Overview:** Contact may cause eye and skin irritation.

#### Potential Health Effects

**Eye Contact:** Contact, dust or powder may cause eye irritation.

**Skin Contact:** Dust or powder may irritate skin.

**Inhalation:** No information is available. Studies by other exposure routes suggest a low degree of hazard by inhalation.

**Ingestion:** Low to moderate degree of toxicity by ingestion.

**Target Organs:** No data available.

**Cancer:** Inadequate data available for this material.

**Developmental:** Inadequate data available for this material.

**Signs and Symptoms:** Effects of overexposure may include: irritation of the nose, throat and digestive tract, nausea, vomiting, diarrhea, abdominal cramping, irregular heartbeat, dehydration and hypertension.

**Other Comments:** To the best of our knowledge, the chemical and toxicological properties of Potassium Magnesium Sulphate have not been thoroughly investigated.

### Section 3 - Composition/Information on Ingredients

Ingredients	CAS #	% Weight
Potassium Magnesium Sulphate (Langbeinite)	14977-37-8	94.5 - 99.5
Sodium Chloride	7647-14-5	0.5 - 2.0

Particulates Not Otherwise Specified	10 mg/m <sup>3</sup>	ACGIH	TWA - Inhalable
	3 mg/m <sup>3</sup>	ACGIH	TWA - Respirable
Particulates Not Otherwise Regulated	15 mg/m <sup>3</sup>	OSHA	TWA - Total
	5 mg/m <sup>3</sup>	OSHA	TWA - Respirable

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### Section 4 – First Aid Measures

**Eye Contact:** Do not rub eyes. Immediately flush eyes with water; remove contact lenses if present, then continue flushing eyes for at least 15 minutes. Seek medical attention if irritation develops and persists.

**Skin Irritation:** Wash skin with plenty of soap and water. Seek medical attention if irritation develops and persists.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Ingestion:** If swallowed, seek medical attention. Rinse mouth thoroughly. Do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious or convulsive person.

**General Advice:** If you feel unwell, seek medical attention. Show the label where possible. Ensure that medical personnel is aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### Section 5 – Fire Fighting Measures

**Flammable Properties:** Product is non-flammable.

#### Extinguishing Media

**Suitable Extinguishing Media:** Treat for surrounding material.

**Unusual Fire & Explosion Hazards:** None known.

#### Protection of Firefighters

**Specific Hazards:** Not available.

**Protective Equipment:** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Flash Point:** Not applicable.

**OSHA Flammability Class:** Not applicable.

**LEL/UEL:** Not applicable.

**Auto-Ignition Temperature:** Not applicable.

### Section 6 – Accidental Release Measures

**Protect People:** K-Mag ® is a naturally occurring crop nutrient and plant food, however, large spills can harm or kill vegetation. Stay upwind and keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Environmental Precautions:** Prevent further spillage or leakage, if safe to do so. Dispose of according to Federal/State/Local regulations. Prevent from entering sewers/waterways.

**Methods For Clean Up:** Before cleaning up, refer to hazard data given above. Minimize dust generation. Sweep up and package appropriately for disposal.

### Section 7 – Handling and Storage

**Handling:** Avoid prolonged exposure. Wear appropriate protective equipment. Avoid generating dust. Avoid inhalation of dust and contact with eyes. Wash hands thoroughly before eating, drinking and/or smoking. Wash thoroughly after handling the product.

**Storage:** Store in tightly closed container, in a well-ventilated area. Keep away from food, drink and animal feed. Stable under normal storage conditions. Keep out of reach of children.

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### Section 8 - Exposure Controls/Personal Protection

**Engineering Controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established limits (see Section 3), additional ventilation or exhaust may be required.

#### **Personal Protective Equipment**

**Respiratory Protection:** A NIOSH approved air purifying respirator with a type 95 (R or P) particulate filter may be used where airborne concentrations may exceed exposure limits (see Section 3). 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.

**Eye/Face Protection:** Use safety glasses with side shields.

**Skin and Body Protection:** The use of cloth or leather work gloves is advised to prevent skin contact; possible irritation and absorption (confirm with supplier).

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b>	Crystalline or granular solid.
<b>Appearance:</b>	White to gray.
<b>Odour:</b>	None.
<b>pH:</b>	7 (5% solution)
<b>Flash Point:</b>	Not applicable.
<b>Flammable/Explosive Limits (%):</b>	LEL/UEL - Not applicable.
<b>Auto-Ignition Temperature:</b>	Not applicable.
<b>Vapour Pressure:</b>	Not applicable.
<b>Vapour Density (Air=1):</b>	Not applicable.
<b>Boiling Point:</b>	Not available.
<b>Freezing/Melting Point:</b>	972°C (1700°F)
<b>Solubility in Water:</b>	Approximately 24.4% @ 77°F (25°C)
<b>Specific Gravity:</b>	2.81 - 2.85
<b>Volatility:</b>	No data available.
<b>Bulk Density:</b>	Loose: 83 - 94 lbs./ft <sup>3</sup> (1300 - 1505 kg/m <sup>3</sup> )

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

### Section 10 - Stability and Reactivity

<b>Chemical Stability:</b>	Stable under normal conditions or handling and storage.
<b>Conditions To Avoid:</b>	Mildly corrosive to metals in the presence of moisture.
<b>Hazardous Decomposition:</b>	When heated above 1,000°F (537°C), combustion can yield oxides of sulphur.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatible Materials:</b>	Avoid contact with hot nitric acid as it may cause evolution of toxic nitrosyl chloride. Contact with other strong acids may produce irritating hydrogen chloride gas. NaCl reacts with most noble metals, such as iron or steel, building materials (such as cement) bromine or trifluoride. A potentially explosive reaction may occur if NaCl is mixed with dichloromaleic anhydride and urea. Electrolysis or mixtures containing NaCl and nitrogen compounds may form explosive nitrogen trichloride. KCl may react violently with bromine trifluoride and may explode if mixed with potassium permanganate and sulfuric acid.

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### Section 11 – Toxicological Information

#### **Potassium Magnesium Sulphate**

**Acute Oral Toxicity:** No data available.

**Acute Inhalation Toxicity:** No data available.

**Acute Dermal Toxicity:** No data available.

#### **Sodium Chloride**

**Acute Oral Toxicity:** LD<sub>50</sub> (rat, oral) >3,000 mg/kg  
LD<sub>50</sub> (mouse, oral) >4,000 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.

**Target Organs:** No data available.

**Developmental Toxicity:** No data available.

**Carcinogenicity:** No data available.

### Section 12 – Ecological Information

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

**Disposal:** All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. Turf-Shark Fertilizer Inc. has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in SDS Section 3: Composition/Information on Ingredients. For unused and uncontaminated product, the preferred options include sending to a licensed, permitted: reclaimer, landfill or wastewater treatment system.

### Section 14 – Transport Information

**Hazard Class or Division:** Not listed in the hazardous materials shipping regulation (49 CFR Table 172.101) by the US Department of Transportation, or in the Transport of Dangerous Goods (TDG) regulations in Canada.

**Section 15 – Regulatory Information**

<b>CERCLA:</b>	Not listed.
<b>RCRA 261.33:</b>	Not listed.
<b>Sara Title III:</b>	
(Exemptions at 40 CFR, Part 370 may apply for agricultural use, or quantities of less than 10,000 pounds on site)	SARA 313 – Not listed. SARA 311/312 – Acute: No; Chronic: No; Fire: No; Pressure: No; Reactivity: No SARA 302/304 – Not listed.
<b>NTP, IARC, OSHA:</b>	Has not been identified as a carcinogen by NTP, IARC or OSHA.
<b>Canada DSL and NDSL:</b>	DSL: Yes NDSL: Not listed.
<b>TSCA:</b>	Listed on the TSCA Inventory.
<b>CA Proposition 65:</b>	
(Health and Safety Code Section 25249.5)	Warning: This product contains substances that are known to the State of California to cause cancer and/or reproductive harm.
<b>WHMIS:</b>	This SDS has been prepared accordingly to the hazard criteria of the Controlled Product Regulations (CPR) and the SDS contains all of the information required by the CPR.

**Section 16 – Other Information**

**Issue Date:** February 1, 2018

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Some conditions of product use are beyond the control of the supplier; it is assumed that the users of this material have been fully trained according to the requirements of all applicable legislation. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of this information contained in this document.