

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY			
Product Identifier	GROTEK CAL-MAX 2-0-0		
Product Use	Plant fertilizer		
Uses restrictions	Do not use for purposes other than those listed on the product label		
Manufacturer Information	Company Name	Greenstar Plant Products Inc.	
	Address	9430-198 TH Street, Langley, BC Canada V1M3C8	
	Email	info@getgreenstar.com	Phone Number 604-882-7699
Emergency Phone Number	604-882-7699		
SECTION 2: HAZARDS IDENTIFICATION			
GHS CLASSIFICATION			
HazCom 2012	Eye irritation Category 2A Skin irritation Category 2		
WHMIS 2015	Eye irritation Category 2A Skin irritation Category 2		
HAZARD SYMBOL & SIGNAL WORD	HAZARD STATEMENTS	PRECAUTIONARY STATEMENTS	
 WARNING	H319: Causes serious eye irritation H315: Causes skin irritation	P264: Wash hands and exposed skin thoroughly after handling P280: Wear protective gloves and eye protection / face protection P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+352: IF ON SKIN: Wash with plenty of water. P332+313: If skin irritation occurs, get medical advice / attention. P362+364: Take off contaminated clothing and wash it before reuse	
To the current knowledge of the supplier, this product contains no other components or impurities, in the concentrations applicable, that are classified as hazardous to health or the environment or influence the classification of this product			
Other Hazards	Ingested nitrate can alter the blood's ability to carry oxygen leading to methemoglobinemia. Symptoms include blue lips or fingernails and blue skin. Effects may be delayed.		



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SECTION 3: HAZARDOUS INGREDIENTS

CAS#	Substance name	Percentage
10377-60-3	Magnesium nitrate	12%
10043-52-4	Calcium chloride	10%
10124-37-5	Calcium nitrate	3%

SECTION 4: FIRST AID MEASURES

First aid should only be administered by trained personnel. Always assess the environment for immediate dangers before entering the area

EYE CONTACT	Flush eyes with gently flowing water for 15 minutes while holding eyelids open. Remove contact lenses after 5 minutes if present and easy to do. Continue rinsing. If irritation persists, seek medical attention
SKIN CONTACT	Wash skin thoroughly with plenty of water. Seek medical attention if irritation occurs
INHALATION	Remove victim to fresh air. Seek medical attention if irritation persists
INGESTION	If swallowed, DO NOT INDUCE VOMITING unless directed to do so by medical personnel. If vomiting occurs, have victim lean forward with head down to avoid breathing in vomit. Call a doctor if you feel unwell. Seek immediate medical attention if large quantities of this material have been swallowed

Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin. Mists may be irritating to respiratory tract. Ingestion of nitrates may interfere with blood's ability to carry oxygen leading to methemoglobinemia. Symptoms include blue lips, fingernails and skin.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flammable	Will not burn or support combustion
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known
Hazardous Combustion Products	Carbon, nitrogen, sodium, calcium, magnesium and iron oxides, nitric acid, hydrogen chloride and / or chlorine gas may be released during a fire

Advice for fire-fighters

Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires
Special fire fighting procedures	In the event of fire, use water spray to cool closed containers and knock-down toxic gases



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SECTION 6: ACCIDENTAL REALEASE MEASURES

SPILL & LEAK PROCEDURES	Wear personal protection equipment outlined in SECTION 8. Ventilate area. Contain spill and adsorb with inert material. Shovel or sweep spilled material into dry labeled containers for disposal. Flush area with water after clean-up. Product is a plant nutrient and can contribute to overgrowth of aquatic vegetation. Do not allow product or rinsing water to enter storm sewers, sanitary sewers, groundwater or soil.
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SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with eyes, skin and clothing. Wear personal protection equipment outlined in SECTION 8 when handling.
Conditions for safe storage, including incompatibilities	Store in tightly closed containers in a cool, dry, well ventilated area. Incompatibles: Not available
Environmental precautions	Product is a plant nutrient and can contribute to overgrowth of aquatic vegetation Do not allow product to enter storm sewers, sanitary sewers, groundwater or soil.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls

Occupational exposure limits	No specific exposure limits established for this product	
Recommended monitoring procedures	Monitor workplace air quality to determine the effectiveness of the ventilation or other control measures and / or the necessity to use respiratory protective equipment	
Engineering controls	No specific ventilation requirements. Avoid the generation of mists. Provide appropriate exhaust ventilation at places where mists may be formed	

Personal protection equipment

Hygiene measures	Wash hands after handling, before eating, smoking and using the toilet and at the end of the work day. Ensure that eyewash stations and safety showers are close to the workstation area	
Eye / Face Protection	Wear safety glasses with side shields, goggles or face shield when handling this product	
Skin protection	Hand protection	Nitrile, latex or PVC gloves
	Body protection	Wear long sleeved shirt and pants when handling this product
Respiratory protection	Avoid breathing mists. Use NIOSH approved respirator during a fire, in poorly ventilated areas	
Environmental exposure controls	Avoid release to storm sewers, sanitary sewers, or the environment.	

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Colour	Amber	Odour	NAV
pH	NAV	Density	NAV	Odour threshold	NAV
Flammability	Not flammable	Melting point	NAV	Boiling point	NAV
Specific gravity	NAV	Melting point	NAV	Decomposition temperature	NAV
Viscosity	NAV	Solubility in water	Product is a liquid	Viscosity	NAV

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not reactive under normal conditions of use and storage
Chemical stability	Stable under normal conditions of use and storage
Possibility of hazardous reactions	NAV
Conditions to avoid	NAV
Incompatibility	NAV
Hazardous decomposition products	Carbon, nitrogen, sodium, calcium, magnesium and iron oxides, nitric acid, hydrogen chloride and / or chlorine gas may be released during a fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological effects

Acute Toxicity	Does not meet criteria
Irritation/ Corrosion	Irritating to eyes and skin. Mist may irritate respiratory tract.
Sensitization	No data available
Carcinogenicity	Ingredients not listed by by ACGIH, NTP OR CA Prop 65. Nitrates or nitrites (ingested) under conditions that result in endogenous nitrosation are classed as 2A (probable human carcinogen) by IARC
Mutagenicity	NAV
Reproductive toxicity	NAV
Repeated dose toxicity	NAV



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SECTION 12: ECOLOGICAL INFORMATION

Acute Toxicity:

Magnesium nitrate: NAV

Calcium chloride: Not acutely toxic to aquatic organisms

Calcium nitrate: Not acutely toxic to fish and nematodes, and flatworms

Persistence and degradability

NAV

Bioaccumulative potential

NAV

Mobility in soil

NAV

Other adverse effects

Product is a plant nutrient and can contribute to overgrowth of aquatic vegetation Do not allow product to enter storm sewers, sanitary sewers, groundwater or soil.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of this product and / or its container in accordance with Federal, provincial, state and local regulations. Do not allow product to enter sewers or the environment.

SECTION 14: TRANSPORT INFORMATION

SHIPPING	TDG	Not a dangerous good for transport
	DOT	Not a dangerous good for transport

SECTION 15: REGULATORY INFORMATION

This product has been classified in accordance with WHMIS 2015 and OSHA HazCom 2012

DSL: all components of this product are on Canada's DSL list

TSCA: all components of this product are on US EPA's TSCA Chemical Substances Inventory

SECTION 16: OTHER INFORMATION

As of the date of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable laws. However, no warranty or representation of law or fact, with respect to such Information is intended or given

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