

## Grotek Vitamax Pro

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Grotek Vitamax Pro
<b>Recommended Use</b>	Fertilizer.
<b>Restrictions on Use</b>	Not applicable.
<b>Manufacturer/Supplier Identifier</b>	Greenstar Plant Products Inc., #284, Unit:505 - 8840-210th Street, Langley, British Columbia, V1M 2Y2, info@getgreenstar.com, 604-882-7699, www.grotek.com CHEMTREC, 1-800-424-9300 / +1-703-527-3887 (24/7, 365 days/year)
<b>SDS No.</b>	0041

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

**Classification**

Eye irritation - Category 2

**Label Elements**



**Warning**

Causes serious eye irritation.

Wear eye protection/face protection.

Wash hands thoroughly after handling.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice or attention.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Potassium nitrate	7757-79-1	18	N/A	N/A
Magnesium nitrate	10377-60-3	18	N/A	N/A

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Remove source of exposure or move to fresh air.

**Skin Contact**

Avoid direct contact. Wear chemical protective clothing if necessary. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

#### **Eye Contact**

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

#### **Ingestion**

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

#### **Most Important Symptoms and Effects, Acute and Delayed**

None known.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Not combustible. Use extinguishing agent suitable for surrounding fire.

### **Specific Hazards Arising from the Product**

Does not burn.

Not known to generate any hazardous decomposition products in a fire.

### **Special Protective Equipment and Precautions for Fire-fighters**

No special precautions are necessary.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### **Environmental Precautions**

It is good practice to prevent releases into the environment.

### **Methods and Materials for Containment and Cleaning Up**

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up. Contain and soak up spill with absorbent that does not react with spilled product.

### **Other Information**

Report spills to local health, safety and environmental authorities, as required.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Do not get in eyes, on skin or on clothing.

### **Conditions for Safe Storage**

Store in an area that is: well-ventilated.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control Parameters**

Not available.

### **Appropriate Engineering Controls**

General ventilation is usually adequate. Provide eyewash in work area, if contact or splash hazard exists.

### **Individual Protection Measures**

#### **Eye/Face Protection**

Not required if product is used as directed. Wear chemical safety goggles and face shield when contact is possible.

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**Skin Protection**

Not required, if used as directed.

**Respiratory Protection**

Not normally required if product is used as directed.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Basic Physical and Chemical Properties**

<b>Appearance</b>	Dark brown liquid.
<b>Odour</b>	Pungent
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	Not applicable (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not available
<b>Solubility</b>	Very soluble (more than 50%) in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

**SECTION 10. STABILITY AND REACTIVITY****Reactivity**

None known.

**Chemical Stability**

Normally stable.

**Possibility of Hazardous Reactions**

None known.

**Conditions to Avoid**

High temperatures. Freezing.

**Incompatible Materials**

None known.

**Hazardous Decomposition Products**

None known.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information presented below is for the entire product, unless otherwise specified.

**Likely Routes of Exposure**

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Skin contact; eye contact; ingestion.

#### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Potassium nitrate		3015 mg/kg (rat)	
Magnesium nitrate		5440 mg/kg (rat)	

LC50: No information was located.

LD50 (dermal): No information was located.

#### Skin Corrosion/Irritation

Human experience shows mild irritation.

#### Serious Eye Damage/Irritation

May cause serious eye irritation based on information for closely related materials. Symptoms include sore, red eyes, and tearing.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

##### Inhalation

Not harmful based on human experience.

##### Skin Absorption

No information was located.

##### Ingestion

May be harmful based on information for closely related materials.

#### Aspiration Hazard

Not known to be an aspiration hazard.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

#### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

#### Carcinogenicity

Not a carcinogen.

#### Reproductive Toxicity

##### Development of Offspring

Not known to harm the unborn child.

##### Sexual Function and Fertility

No information was located.

##### Effects on or via Lactation

No information was located.

No information was located for: Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to crustacea, based on acute toxicity tests.

#### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
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Potassium nitrate	420000 mg/L (Lepomis macrochirus (bluegill); 96-hour; fresh water; static)	490 mg/L (Daphnia magna (water flea); 48-hour; fresh water; static)		
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#### **Persistence and Degradability**

No ingredient of this product or its degradation products is known to be highly persistent.

#### **Bioaccumulative Potential**

This product and its degradation products are not known to bioaccumulate.

#### **Mobility in Soil**

If released into the environment, this product is expected to move rapidly through the soil, based on physical and chemical properties.

#### **Other Adverse Effects**

There is no information available.

### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations.

### **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

**Special Precautions** Not applicable

#### **Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

### **SECTION 15. REGULATORY INFORMATION**

#### **Safety, Health and Environmental Regulations**

##### **Canada**

##### **Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL or are not required to be listed.

##### **CEPA - National Pollutant Release Inventory (NPRI)**

Part 1A. (Potassium nitrate). (Magnesium nitrate)

##### **USA**

##### **Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

### **SECTION 16. OTHER INFORMATION**

**SDS Prepared By** Regulatory

**Date of Preparation** November 22, 2018

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