



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>PRODUCT IDENTIFIER</b>		SUPER GREEN SUPERPHOSPHATE 0-20-0					
<b>PRODUCT USE</b>		Plant fertilizer					
<b>MANUFACTURERS NAME</b>		Greenstar Plant Products Inc.		<b>SUPPLIERS NAME</b>			
<b>STREET ADDRESS</b>		#284-505-8840 210 <sup>th</sup> STREET		<b>STREET ADDRESS</b>			
<b>CITY</b>	Langley	<b>PROVINCE</b>	BC	<b>CITY</b>		<b>PROVINCE</b>	
<b>POSTAL CODE</b>	V1M 2Y2	<b>EMERGENCY TELEPHONE</b>	604-882-7699	<b>POSTAL CODE</b>		<b>EMERGENCY TELEPHONE</b>	
<b>DATE</b>	April 25, 2016	<b>PREPARED BY</b>	Greenstar Plant Products Inc.			<b>PHONE NUMBER</b>	

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT INGREDIENTS	CAS
Calcium dihydrogen orthophosphate	7758-23-8
Calcium sulphate	7778-18-9

## SECTION 3 – HAZARDS IDENTIFICATION

<b>EMERGENCY OVERVIEW</b>	
Calcium dihydrogen phosphate is CORROSIVE TO EYES. May cause permanent eye damage.	
<b>EFFECTS OF ACUTE EXPOSURE TO PRODUCT</b>	
<b>EYE CONTACT</b>	CORROSIVE TO EYES with the potential to cause serious permanent eye damage
<b>SKIN CONTACT</b>	Not expected to be irritating to skin
<b>INHALATION</b>	Inhalation of dust may cause nose, throat and respiratory irritation
<b>INGESTION</b>	Ingestion of large quantities may cause diarrhea, nausea, vomiting and cramps
<b>EFFECTS OF CHRONIC EXPOSURE TO PRODUCT</b>	
<b>INHALATION</b>	Long-term exposure to high concentrations of dust may cause a reversible increase in mucous flow in the nose and respiratory system airways. Long-term exposure to dust may contribute to the development of chronic bronchitis.

## SECTION 4 – FIRST AID MEASURES

<b>EYE CONTACT</b>	Immediately flush eye(s) with gently flowing water for 20 minutes, while holding the eyelids open. DO NOT INTERRUPT FLUSHING. Continue flushing during transportation to medical facility. Seek immediate medical attention.
<b>SKIN CONTACT</b>	Wash skin thoroughly with soap and water and rinse well. If irritation occurs, seek medical attention
<b>INHALATION</b>	Remove victim to fresh air. If symptoms persist, seek medical attention
<b>INGESTION</b>	Never give anything by mouth to an unconscious person. DO NOT induce vomiting without physician's direction. If vomiting occurs naturally, have victim lean forward with head down to avoid breathing in vomit, rinse mouth. Obtain immediate medical attention



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### **SECTION 5 – FIRE FIGHTING MEASURES**

<b>FLAMMABLE</b>	Product will not burn or support combustion				
<b>MEANS OF EXTINCTION</b>	Use media appropriate for the surrounding fire				
<b>FLASHPOINT &amp; METHOD</b>	Not applicable	<b>UPPER FLAMMABLE LIMIT</b>	Not applicable	<b>LOWER FLAMMABILITY LIMIT</b>	Not applicable
<b>AUTO IGNITION TEMPERATURE</b>	Not applicable	<b>SENSITIVITY TO IMPACT</b>	Not sensitive	<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not sensitive
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	During a fire, irritating / toxic phosphorus oxides and phosphine may be generated.				

### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

<b>LEAK &amp; SPILL PROCEDURES</b>	Restrict access to area until clean-up is complete. Ventilate area of dust. Wear personal protective equipment as specified in SECTION 8. Shovel or sweep spilled material into dry labeled containers, and cover. Avoid the generation of dust. After clean-up, flush area with water.
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### **SECTION 7 – HANDLING AND STORAGE**

<b>HANDLING</b>	This product is CORROSIVE TO EYES. Ensure adequate ventilation. Use personal protective equipment outlined in SECTION 8. Avoid the generation of dust.
<b>STORAGE</b>	Store in a cool, dry, well-ventilated area, away from direct sunlight, heat and incompatibles.

### **SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**

<b>EXPOSURE LIMITS</b>	ACGIH recommendation for particles (insoluble or poorly soluble, not otherwise specified): TLV TWA 3 mg / m <sup>3</sup> respirable particles, 10 mg / m <sup>3</sup> for inhalable particles
<b>ENGINEERING CONTROLS</b>	Maintain adequate ventilation to maintain airborne dust below maximum limits
<b>PERSONAL PROTECTIVE EQUIPMENT</b>	
<b>EYES</b>	Wear chemical goggles that make a tight seal on the face
<b>SKIN</b>	Wear protective gloves, long sleeved shirt, pants, and shoes plus socks
<b>RESPIRATORY PROTECTION</b>	Wear an NIOSH-approved respirator in dusty or poorly ventilated areas or if exposure limits are exceeded.

### **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE</b>	Solid	<b>APPEARANCE</b>	Granules	<b>COLOUR</b>	Light gray / brown
<b>EVAPORATION RATE</b>	NAP	<b>SPECIFIC GRAVITY</b>	2.41 at 20°C	<b>ODOUR</b>	Acidic
<b>SOLUBILITY IN WATER</b>	Highly soluble	<b>PH</b>	10 g / L at 20°C: 3.7	<b>ODOUR THRESHHOLD</b>	NAV



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### **SECTION 10 – STABILITY AND REACTIVITY**

<b>CHEMICAL STABILITY</b>	Stable under normal conditions of use
<b>INCOMPATIBILITY WITH OTHER SUBSTANCES</b>	Strong oxidizing agents, Strong acids, strong bases.
<b>CONDITIONS TO AVOID</b>	High temperatures. Generation of dust
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Phosphoric acid

### **SECTION 11 – TOXICOLOGICAL INFORMATION**

<b>ACUTE TOXICITY</b>	LD <sub>50</sub> (oral, rat) > 2000 mg / kg LD <sub>50</sub> (dermal, rat) > 2000 mg / kg LC <sub>50</sub> (inhalation, rat) > 5 ml / L
<b>RESPIRATORY SENSITIZATION</b>	Not available
<b>SENSITIZATION</b>	Not a known skin or respiratory sensitizer
<b>CARCINOGENICITY</b>	Not listed as a carcinogen by IARC, NTP, or ACGIH as a known or suspected carcinogen
<b>REPRODUCTIVE TOXICITY</b>	No information available
<b>MUTAGENICITY</b>	No information available
<b>SYNERGISTIC PRODUCTS/EFFECTS</b>	No information available

### **SECTION 12 – ECOLOGICAL INFORMATION**

<b>ECOTOXICITY</b>	<p><i>Aquatic Toxicity</i> LC<sub>50</sub> Daphnia carinata 1790 mg / L / 72 hr</p> <p>Limited information available at this time. Inorganic phosphates are not considered toxic to aquatic species. As this product is a plant nutrient, high concentrations in waste water can contribute to lake eutrophication.</p> <p><i>Persistence and degradability</i> Dissociates into Ca + 2, sulfate and phosphate ions, which can not be further degraded. Does not bioaccumulate.</p> <p><i>Mobility in Soil</i> Low potential for adsorption based on substance properties. Highly water soluble and dissociating.</p>
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### **SECTION 13 – DISPOSAL CONSIDERATIONS**

<b>WASTE DISPOSAL</b>	Dispose of in accordance with Federal, provincial and municipal regulations
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## SECTION 14 – TRANSPORT INFORMATION

**SHIPPING**

**TDG:** Not classified as hazardous material  
**DOT:** Not classified as hazardous material

## SECTION 15 – REGULATORY INFORMATION

**WHMIS:** D-2B, Eye irritation – toxic - other

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR*

## 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.*