

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER		Blossom Blaster		WHMIS CLASSIFICATION		Not regulated	
PRODUCT USE Blooming Fertilizer							
Manufacturers Name		Greenstar Plant Products		Suppliers Name		Greenstar Plant Products	
Street Address		9430 198 th Street		Street Address		9430 198 th Street	
City	Langley	Province	BC	City	Langley	Province	BC
Postal Code	V1M 3C8	Emergency Telephone	604-882-7686	Postal Code	V1M 3C8	Emergency Telephone	604-882-7686
Date MSDS Prepared	August 19, 2009	Prepared By	Greenstar Plant Products			Phone Number	604-882-7686

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Non-Hazardous Ingredients	%	CAS	LD ₅₀ of Ingredient	LC ₅₀ of Ingredient
Monopotassium Phosphate	95-100	7778-77-0	LD ₅₀ 7100 mg/kg oral rat	NAP

SECTION 3 – HAZARDS IDENTIFICATION

Route of Entry <input checked="" type="checkbox"/> Skin contact <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion
Emergency Overview: MAY CAUSE MECHANICAL IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED.
WHMIS Symbols:
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:
Eye Contact: Particles are likely irritating as “foreign objects” No human or animal data available
Skin Contact: Dusts and mists are not expected to be irritating based on pH. No animal or human data available
Inhalation: High concentrations of dust may cause coughing and mild, temporary irritation. No human or animal information available
Ingestion: Ingestion of very large amounts may cause diarrhea, nausea, vomiting and cramps.
EFFECTS OF CHRONIC EXPOSURE: INHALATION: Long term exposure may be a contributing factor in the development of chronic bronchitis. INGESTION: Toxic effects on the kidney, parathyroid glands and bones have been reported in experimental animals exposed to very high doses. These high doses are not considered relevant to occupational settings.

SECTION 4 – FIRST AID MEASURES

Skin Contact May cause skin irritation. Wash contaminated skin thoroughly with soap and water. If irritation persists, obtain medical advice.
Eye Contact May cause irritation by mechanical abrasion. Check for and remove any contact lenses. Immediately flush the contaminated eye(s) area with lukewarm gently running water for at least 5 minutes keeping eyelids open. If irritation persists seek medical advice.

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Inhalation

Repeat or prolonged inhalation of dust may lead to respiratory irritation. Move victim to a well ventilated area. Obtain medical attention if irritation persists. Persons who have inhaled decomposition gases (e.g. in a fire) should obtain immediate medical attention.

Ingestion

If irritation or discomfort occurs, obtain medical advice immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Flammable	Non-Flammable	If yes, under what conditions?			
Means of Extinction: This material does not burn or support combustion. Use extinguishing media appropriate to the surrounding fire conditions					
Flashpoint (°C) and method	NAP	Upper Flammable Limit (% by volume)	NAP	Lower Flammable Limit (% by volume)	NAP
Auto ignition Temperature (°C)	NAP	Explosion Data – Sensitivity to Impact	Not sensitive. Stable material	Explosion Data-Sensitivity to Static Discharge	Not sensitive
Hazardous Combustion Products: Thermal decomposition may produce toxic fumes of phosphorous or phosphorous oxides and / or phosphines.					

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear adequate protective equipment. Ventilate area. Spillage should be swept up and placed in chemical waste container to be disposed at an appropriate waste disposal facility according to current applicable laws, regulations and product characteristics at time of disposal.

If spill could potentially enter any waterways including intermittent dry creeks contact the local authorities.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures and Equipment

Avoid generating dusts. Use in well ventilated area, separate from storage area. Dry sweeping is not recommended. Pre-wet the material or use a vacuum equipped with high efficiency filter. Keep in a tightly closed container when not in use. Do not use with incompatible materials such as strong acids or bases. See section 10 for incompatible materials. Do not puncture, drag or slide container. Protect against physical damage and moisture.

Storage Requirements

Store in suitable, labelled containers. It is good practice to keep full and empty storage containers closed when not in use.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input type="checkbox"/> ACGIH TLV	<input type="checkbox"/> OSHA PEL	<input type="checkbox"/> Other (<i>specify</i>)			
Specific Engineering Controls (such as ventilation, enclosed process)						
Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.						
Personal Respirators (NIOSH Approved): No specific requirement. When engineering controls are not feasible, a respirator (NIOSH approved) may be worn.						
Personal Protective Equipment	Gloves	Respirator	Eye	Footwear	Clothing	Other
Hands: No specific requirement, but it is good practice to wear water resistant rubber (latex, butyl or plastic (PVC) gloves. Respirator: No specific guidelines are available. A NIOSH approved aerosol and dust filter cartridge to remove dusts may be used in high dust situations. Eyes: No specific requirements, but it is good practice to wear goggles. Skin Contact: No specific requirement, but it is good practice to prevent skin contact. .						

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State Pink Powder	Odour and Appearance Odorless pink colored powder	Odour Threshold (ppm) NAP
Specific Gravity NAP	Vapour Density (air = 1) NAP	Vapour Pressure (mmHg) NAP
Evaporation Rate NAP	Boiling Point (°C) NAP	Freezing Point (°C) NAP
pH NAP	Coefficient of Water/Oil Distribution NAP	Solubility in Water NAP

Blossom Blaster**SECTION 10 – STABILITY AND REACTIVITY**

Chemical Stability √Yes □ No	If no, under which conditions
Incompatibility with Other Substances √Yes □ No	If yes, which ones? Strong acids (e.g. sulphuric acid) – may react violently Strong bases (e.g. alkalis such as sodium hydroxide) – may react violently
Reactivity, and under what conditions?	Reactive to strong acids and bases.
Hazardous Decomposition Products	None known

SECTION 11 – TOXICOLOGICAL INFORMATION

Monopotassium Phosphate (MKP) Data from Astaris single does (acute) animal studies: LD ₅₀ 7100 mg/kg oral rat – practically non-toxic LD ₅₀ 7940 mg/kg dermal rabbit – practically non-toxic	
Skin Sensitization Insufficient information	Respiratory Sensitization Does not meet criteria. Not reported as human respiratory sensitizer
Carcinogenicity - IARC Does not meet criteria. Not included on standard reference lists	Carcinogenicity – ACGIH Does not meet criteria. Not included on standard reference lists
Reproductive Toxicity Insufficient information	Teratogenicity Insufficient information. Probably not teratogenic
Embryotoxicity Insufficient information. Probably not embryotoxic	Mutagenicity Insufficient information. No in vivo studies reported
Name of Synergistic Products/Effects NAP	

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity Values: LC50 Capitella capitata (Polychaete worm) 2400 ug/L/28 days; static LC50 Neanthes arenaceodentata (Polychaete worm) 1900 ug/L/28 days; static LC50 Neanthes grubei (Polychaete) 920 ug/L/28 days; static LC50 Stauronereis rudolphi (Polychaete) 2100 ug/L/28 days; static

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, provincial and municipal environmental control regulations.
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SECTION 14 – TRANSPORT INFORMATION

TDG: Not regulated for transport	DOT: Not regulated for transport
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SECTION 15 – REGULATORY INFORMATION

WHMIS Classification: Not regulated. Insufficient information to classify	OSHA NAP
SERA NAP	TSCA NAP
<i>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</i>	

SECTION 16 – OTHER INFORMATION

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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.