



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Page 1 of 3

PRODUCT IDENTIFIER:	Flower Food 4-3-5		
PRODUCT USE:	Granular Organic Fertilizer	SUPPLIER'S NAME:	Same as manufacturer
MANUFACTURER'S NAME:	BioFert Manufacturing Inc	ADDRESS:	Same as manufacturer
ADDRESS: Unit 207-27353-58 Crescent, Langley, BC, V4W 3W7			
Emergency Phone No. : 1(866) 246-3378			

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Potassium Sulfate	7778-80-5	LD ₅₀ (Rat oral) 6600 mg/Kg
Calcium Lime	1317-65-3	LD ₅₀ (rat, oral) 6450 mg/kg
Rock Phosphate	7758-87-4	NAV
Dolomite	16389-88-1	NAV

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Solid	ODOUR & APPEARANCE	Fish odor, Granular
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mmHg):	NAV
VAPOUR DENSITY (air=1):	NAV	BULK DENSITY:	NAV
pH:	NAV	BOILING POINT (°C)	NAV
FREEZING POINT (°C)	NAV	EVAPORATION RATE:	NAV
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Soluble, but most remains solid

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABLE:	NAP		
IF YES, UNDER WHAT CONDITIONS?	Even though product is not combustible, it can contribute to combustion as a source of fuel.		
MEANS OF EXTINCTION:	Water, Fog, Foam, Dry Chemical, CO ₂		
SPECIAL PROCEDURES:	If possible remove containers from fire area without risk. Spray water from as far a distance as possible.		
FLASHPOINT (°C) & METHOD:	NAV	AUTOIGNITION TEMPERATURE (°C)	NAV
LOWER FLAMMABLE LIMIT (% by volume):	NAV	UPPER FLAMMABLE LIMIT (% by volume):	NAV
SENSITIVITY TO IMPACT:	Some evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
HAZARDOUS COMBUSTION PRODUCTS:	Iron Oxides, Ammonia, Nitrogen Oxides, Carbon Oxides, Calcium Oxides, Potassium Oxide		

MATERIAL SAFETY DATA SHEET

Page 2 of 3

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY:	Stable at room temperature in closed containers and under normal storage and handling conditions.		
INCOMPATIBILITY:	Oxidizable substances, ammonia, hydrazine, reducing agents, strong acids and bases, alkyl esters.	CORROSIVE BEHAVIOUR:	Corrosive
REACTIVITY AND UNDER WHAT CONDITIONS:	Keep away from ignition sources, shock, water/moisture, heat and incompatible materials.		
HAZARDOUS DECOMPOSITION PRODUCTS:	Please see Hazardous combustion products.		

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:									
SKIN CONTACT:	Yes	SKIN ABSORPTION:	Yes	EYE CONTACT:	Yes	INHALATION:	Yes	INGESTION:	Yes
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:									
INGESTION:	Ingestion of large amounts may cause gastrointestinal irritation characterized by abdominal cramps, nausea and vomiting. Ingestion may also cause headaches, laboured breathing, confusion and dizziness.								
INHALATION:	Repeated exposure to this product can cause respiratory track irritation. Can cause acute pulmonary edema.								
EYE CONTACT:	Can cause eye irritation.								
SKIN CONTACT:	Contact with skin may cause skin irritation.								
EFFECTS OF CHRONIC EXPOSURE: NAV									
CARCINOGENICITY:	No evidence			MUTAGENICITY:	No evidence				
REPRODUCTIVE HAZARD:	No evidence			TERATOGENICITY:	No evidence				
IRRITANCY:	Mild irritancy			SENSITIZATION:	Possible skin reddening if not washed off affected area.				
SYNERGISTIC PRODUCTS:	NAV								

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:	<p>Hands wear: Water resistant rubber type gloves (latex, nitrile, PVC).</p> <p>Respirator: Wear- NIOSH approved dust filter cartridge to remove dust where dust is visually airborne,</p> <p>Eye: Wear goggles, Foot-wear work boot/rubber boots,</p> <p>Clothing: Long sleeve and pants - no special clothing required.</p>
ENGINEERING CONTROLS:	General mechanical ventilation is adequate.
HANDLING PROCEDURES:	Do not handle unless safety precaution have been read and understood, avoid eye and skin contact. Avoid inhalation of dust. Do not puncture, drag or slide container.
STORAGE REQUIREMENTS:	Should be stored in its original containers in a cool dry location to minimize product expansion and possible spillage.
LEAK AND SPILL PROCEDURE:	Cleanup personnel should wear personal protective equipment as necessary to prevent skin/eye contact. Place into suitable container for reclamation or disposal. Damp mop any residues.
WASTE DISPOSAL:	Dispose of insalvagable waste as required by applicable federal, state, and local regulations.

MATERIAL SAFETY DATA SHEET

Page 3 of 3

SECTION 8 – FIRST AID MEASURES

INHALATION:	Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped, assist breathing with oxygen. Obtain medical assistance immediately.
SKIN CONTACT:	Thoroughly wash the affected area with mild soap and water for fifteen (15) minutes. Seek medical attention if irritation persists.
EYE CONTACT:	Flush eyes, including under the eyelids, with clean running water for at least fifteen (15) minutes. Seek medical attention if irritation persists.
INGESTION:	Do not attempt to give anything by mouth to unconscious victim. If victim is alert and not convulsing, rinse mouth and give water to dilute material. Do not induce vomiting. If vomiting occurs, have victim lean forward with head down to avoid breathing in vomit, rinse mouth. Obtain medical attention immediately.

SECTION 9 – DEPARTMENT OF TRANSPORTATION

SHIPPING INFORMATION

US and Canada: Not regulated

International Shipping: Not regulated

TDG: Not regulated.

IATA: Not regulated

SECTION 10 – PREPARATION DATE OF MSDS

PREPARED BY: BioFert Manufacturing Inc.

BUSINESS NUMBER: 604-607-1344

DATE: January, 2014

ADDITIONAL INFORMATION:

At the time of preparation, the information and data contained in this MSDS are believed to be accurate and have been compiled from sources that are believed to be reliable.