



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Page 1 of 3

PRODUCT IDENTIFIER:	BERRY BOOST 3-11-15		
PRODUCT USE:	Liquid Fertilizer		
MANUFACTURER'S NAME:	Agrisol Manufacturing Inc	SUPPLIER'S NAME:	Same as manufacturer
ADDRESS:	220 – 7565, 132 Street, Surrey, BC, V3Z 1K7 Canada		
IN CASE OF EMERGENCY:	1(604)805-2417		

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Calcium Nitrate	10124-37-5	LD ₅₀ (rat, oral) 302 mg/kg
Monopotassium Phosphate	7778-77-0	LD ₅₀ (rat, acute oral) 4640 mg/kg LD ₅₀ (rabbit, dermal) 4640 mg/kg
Potassium Nitrate	7757-79-1	LD ₅₀ (Oral, rabbit) 1901 mg/kg LD ₅₀ (Oral, rat) 3750 mg/kg
Potassium Sulphate	7778-80-5	LD ₅₀ (rat, oral) >6,600 mg/kg
Ammonium Sulphate	10377-60-3	LD ₅₀ (rat, oral) 5,440 mg/kg
Magnesium Sulphate	18939-43-0	LD ₅₀ (mouse, oral) 5,000 mg/kg

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Dark liquid, slight odour
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mmHg):	Negligible
VAPOUR DENSITY (air=1):	NAP	SPECIFIC GRAVITY:	1.25 g/cm
pH:	5.4	BOILING POINT (°C)	>100°C
FREEZING POINT (°C)	NAV	EVAPORATION RATE:	NAP
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Soluble

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABLE:	No		
IF YES, UNDER WHAT CONDITIONS?	Product is not combustible; however, it can contribute to combustion as a fuel source.		
MEANS OF EXTINCTION:	Water spray or fog, Foam, Dry Chemical, carbon dioxide, or halon. Water may be used to cool containers to prevent pressure build up when exposed to extreme heat.		
SPECIAL PROCEDURES:	Remove containers from fire area if possible without risk. Apply water from as far a distance as possible.		
FLASHPOINT (°C) & METHOD:	NAV	AUTOIGNITION TEMPERATURE (°C)	NAP

MATERIAL SAFETY DATA SHEET

Page 2 of 3

LOWER FLAMMABLE LIMIT (% by volume):	NAP	UPPER FLAMMABLE LIMIT (% by volume):	NAP
SENSITIVITY TO IMPACT:	Some evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
HAZARDOUS COMBUSTION PRODUCTS:	Nitrogen oxides, ammonia, phosphorus oxides, phosphine, Potassium nitrate, potassium peroxide, sulfur oxides, magnesium and potassium oxides.		

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions.			
INCOMPATIBILITY:	Oxidizable substances, powdered metals. Ammonia, hydrazine, reducing agents, strong acids and bases, alkyl esters, dimethyl formamide, methylamine, ethoxyethynyl alcohols, magnesium and chlorine trifluoride.	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 4).		

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, vomiting. Bloody diarrhea. Ingestion may also cause headaches, labored breathing, confusion dizziness, convulsions and collapse. Other symptoms may include blue lips or fingernails and blue skin. The product may also cause effects on the blood resulting in the formation of methaemoglobin.								
INHALATION:	May cause respiratory track irritation.								
EYE CONTACT:	May cause eye irritation.								
SKIN CONTACT:	May cause skin irritation and possible skin sensitization.								
EFFECTS OF CHRONIC EXPOSURE: Chronic exposure may cause kidney damage, and central nervous system depression (headache and mental impairment). Chronic dermatitis or an allergic skin sensitization may also develop from repeated exposure. Other symptoms include anemia and the formation of methaemoglobin. Inorganic phosphorus compounds may cause irritation and hemorrhages in the stomach as well as liver damage. Bone structure may be attacked, especially the jaw and teeth.									
CARCINOGENICITY:	Not listed			MUTAGENICITY:	No evidence				
REPRODUCTIVE HAZARD:	Possible (evidence in animals)			TERATOGENICITY:	Possible (evidence in animals)				
IRRITANCY:	Yes			SENSITIZATION:	Yes				
SYNERGISTIC PRODUCTS:	NAV								

MATERIAL SAFETY DATA SHEET

Page 3 of 3

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:	Gloves and Eye Protection: Wear neoprene rubber or butyl gloves. Wear chemical safety goggles and face shield if splashing may occur. Foot Wear: Impervious safety boots. Clothing's: wear coveralls with an impervious apron to protect street clothing. Respirator: A NIOSH approved dust and mist air-purifying respirator with NIOSH type N95 or better filters.
ENGINEERING CONTROLS:	Use containment whenever possible, and good general ventilation.
HANDLING PROCEDURES:	Use containment whenever possible and personal protective equipment where splashing or potential for contact exists. Eating, drinking and smoking should be prohibited in areas where this material is handled, store and processed. Workers should wash hand and face before eating, drinking or smoking.
STORAGE REQUIREMENTS:	Protect against physical damage. Store in cool, dry place away from heat sources. Keep separate from incompatible materials.
LEAK AND SPILL PROCEDURE:	Isolate hazard area. Ventilate area of spill or leak. Remove all sources of ignition. Wear appropriate personal protective equipment. Keep unnecessary and unprotected personnel from entering. Contain and recover spilled material where possible in to containers for later disposal.
WASTE DISPOSAL:	Dispose in compliance with government requirements and local disposal regulations.

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 if symptoms persist.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with water for fifteen (15) minutes. Obtain medical attention if irritation or redness persists.
EYE CONTACT:	Flush eyes thoroughly while holding upper and lower eye lids for a minimum of 15 minutes. Obtain medical attention.
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 without physician's direction. 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: Agrisol Manufacturing Inc.
220 – 7565, 132 Street,
Surrey, BC, V3Z 1K7
Canada

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.

BUSINESS NUMBER: 604-805-2417

DATE: November, 2015