



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER:	TURF WINTER CARE		
PRODUCT USE:	Liquid Fertilizer	SUPPLIER'S NAME:	Same as manufacturer
MANUFACTURER'S NAME:	Agrisol Manufacturing Inc.	ADDRESS:	Same as manufacturer
ADDRESS:	220 – 7565, 132 Street, Surrey, BC, V3Z 1K7 Canada		
Emergency Phone No:	1(604)-805-2417		

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Ferrous Sulphate	7720-78-7	LD ₅₀ (oral rat) 319 mg/Kg
Copper Sulphate	7758-99*8	LD ₅₀ (oral rat, acute) 300 mg/Kg LD ₅₀ (dermal rat, acute) 2000 mg/Kg
Zinc (Zn) Sulphate	7446-20-0	Acute Dermal LD ₅₀ Rat: > 2000 mg/kg Acute Oral LD ₅₀ Rat: 623 mg/kg
Iron (Fe) EDTA	15708-41-5	LD ₅₀ (rat, oral) >5000 mg/kg
Copper EDTA	14025-15-1	LD ₅₀ (rat, oral) 350 mg/kg LC ₅₀ (rat, Inhalation) 2000 ppm (4hr)
Manganese (Mn) EDTA	158375-84-5	LD ₅₀ (rat, oral) greater than 2000 mg/kg
Zinc (Zn) EDTA		

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Brownish liquid; Slight odor
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mmHg):	Negligible
VAPOUR DENSITY(air=1):	NAP	SPECIFIC GRAVITY:	1.17 g/ml
pH:	5.0 – 6.0	BOILING POINT (°C)	100 °C
FREEZING POINT (°C)	4 °C	EVAPORATION RATE:	NAP
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Soluble in water

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABLE:	No
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 spray or fog, foam, Carbon dioxide or halon
SPECIAL PROCEDURES:	If possible remove containers from fire area without risk. Spray water from as far a distance as possible.

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FLASHPOINT (°C) & METHOD:	NAV	AUTO IGNITION TEMPERATURE (°C)	NAP
LOWER FLAMMABLE LIMIT (% by volume):	NAP	UPPER FLAMMABLE LIMIT (% by volume):	NAP
SENSITIVITY TO IMPACT:	No evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
HAZARDOUS COMBUSTION PRODUCTS:	NAV		

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY:	Stable under normal conditions		
INCOMPATIBILITY:	Strong Alkalis	CORROSIVE BEHAVIOUR:	Corrosive
REACTIVITY AND UNDER WHAT CONDITIONS:	Keep away from ignition sources, shock, water/moisture, heat and incompatible materials.		
HAZARDOUS DECOMPOSITION PRODUCTS:	See hazardous combustion products (Section 4).		

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:									
SKIN CONTACT:	Yes	SKIN ABSORPTION:	Yes	EYE CONTACT:	Yes	INHALATION:	No	INGESTION:	Yes
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:									
INGESTION:	Ingestion of large amounts may cause gastrointestinal irritation characterized by abdominal cramps, nausea, vomiting and bloody diarrhea. Ingestion may also cause headaches, labored breathing, confusion and dizziness.								
INHALATION:	NAP								
EYE CONTACT:	May cause eye irritation								
SKIN CONTACT:	May cause skin irritation								
EFFECTS OF CHRONIC EXPOSURE:									
Chronic exposure may cause kidney damage, and depression (headache and mental impairment). Skin sensitization may also develop from repeated exposure.									
EXPOSURE STANDARDS:									
MUTAGENICITY:	NAV								
REPRODUCTIVE HAZARD:	NAV			TERATOGENICITY:	NAV				
IRRITANCY:	Yes			SENSITIZATION:	Yes				
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 filter cartridge to remove avoid inhalation of vapours.</p> <p>Eye: Wear safety goggles.</p> <p>Footwear: Wear work boot/rubber boots.</p> <p>Clothing: Long sleeve and pants - no special clothing required.</p>
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ENGINEERING CONTROLS:	General mechanical ventilation is adequate, minimize vapour generation.
HANDLING PROCEDURES:	Do not handle unless safety precaution have been read and understood, avoid eye and skin contact. Avoid inhalation of vapors. Do not puncture, drag or slide container.
STORAGE REQUIREMENTS:	Store in cool, dry area and well ventilated area. Keep container closed.
LEAK AND SPILL PROCEDURE:	Wear necessary personal protective equipment during clean-up, vacuum, avoid creating splash. Place in properly labeled containers for later disposal.
WASTE DISPOSAL:	Disposal in accordance with Federal, Provincial & Municipal waste 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.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with water for a minimum of 15 minutes. Obtain medical attention if irritation or redness persists.
EYE CONTACT:	Flush eyes thoroughly while holding both 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. 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

BUSINESS NUMBER: 604-805-2417

DATE: November, 2015

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.