



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER:	TURF 12-0-0		
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(866) 246-3378		

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Urea	57-13-6	LD ₅₀ (oral, rat): 14300-15000 mg/kg LD ₅₀ (oral, mouse): 11500-13000 mg/kg LC ₅₀ (fish, 96hrs): >9100 mg/L LC ₅₀ (daphnia, 24 hrs) 10000 mg/L
Ferrous Sulphate	7720-78-7	LD ₅₀ (oral rat) 319 mg/Kg
Iron (Fe) EDTA	15708-41-5	LD ₅₀ (rat, oral) >5000 mg/kg

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Brownish liquid with slight odour
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mmHg):	NAV
VAPOUR DENSITY (air=1):	NAP	SPECIFIC GRAVITY:	1.16 g/cm ³
pH:	6.0 – 6.3	BOILING POINT (°C)	>100°C
FREEZING POINT (°C)	5 °C	EVAPORATION RATE:	NAV
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Soluble in water

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABLE:	No		
IF YES, UNDER WHAT CONDITIONS?	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:	Water may be used to cool containers to prevent pressure build up when exposed to extreme heat. If possible remove containers from fire area without risk. Apply water from as far a distance as possible.		
FLASHPOINT (°C) & METHOD:	➤ 100	AUTOIGNITION TEMPERATURE (°C)	NAP
LOWER FLAMMABLE LIMIT (% by volume):	NAP	UPPER FLAMMABLE LIMIT (% by volume):	NAP

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SENSITIVITY TO IMPACT:	No evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
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HAZARDOUS COMBUSTION PRODUCTS:	Carbon monoxide and Carbon dioxide
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SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY:	Stable under normal conditions
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INCOMPATIBILITY:	Oxidizable substances, reducing agents, Ammonia, strong acids and bases.	CORROSIVE BEHAVIOUR:	Corrosive
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REACTIVITY AND UNDER WHAT CONDITIONS:	Keep away from ignition sources, shock, heat and incompatible materials.
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HAZARDOUS DECOMPOSITION PRODUCTS:	See hazardous combustion products (Section 4).
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SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:									
SKIN CONTACT:	No	SKIN ABSORPTION:	No	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, dizziness, convulsions and collapse.
INHALATION:	NAP

EYE CONTACT:	May cause eye irritation
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SKIN CONTACT:	May cause skin irritation
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EFFECTS OF CHRONIC EXPOSURE:

Chronic exposure may cause headache and Chronic dermatitis or an allergic 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 goggles, Footwear- 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.
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HANDLING PROCEDURES:	Do not handle unless safety precaution have been read and understood, avoid eye and skin contact. Avoid inhalation of vapours. Do not puncture, drag or slide container.
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NAP: Not applicable NAV: Not available TWA: Time weighted average

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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.