



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

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PRODUCT IDENTIFIER:	TURF 20-0-0		
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(604) 805-2417		

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

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Brownish liquid; odorless
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mm Hg):	
VAPOUR PRESSURE (air=1):	NAV	SPECIFIC GRAVITY:	1.16 g/ml
pH:	6.0 – 6.5	BOILING POINT (°C)	100 °C
FREEZING POINT (°C)	6 °C	BULK DENSITY	NAV
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Soluble in water

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABLE:	Not flammable		
IF YES, UNDER WHAT CONDITIONS?	Product is not combustible; however, thermal decomposition may result in flammable/toxic gases being formed after material evaporates to dryness.		
MEANS OF EXTINCTION:	Use appropriate media for surrounding fire		
SPECIAL PROCEDURES:	A self-contained breathing apparatus should be worn in a fire involving the material. Toxic gas and vapor (CO ₂ , ammonia, nitrogen oxide) may be released by decomposition.		
FLASHPOINT (°C) & METHOD:	N applicable	AUTOIGNITION TEMPERATURE (°C)	Not applicable
LOWER FLAMMABLE LIMIT (% by volume):	N applicable	UPPER FLAMMABLE LIMIT (% by volume):	Not applicable
SENSITIVITY TO IMPACT:	No evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
HAZARDOUS COMBUSTION PRODUCTS:	It not combustible however, thermal decomposition may result in flammable/toxic gases being formed after material evaporates to dryness.		

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SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Stable at room temperature in closed containers and under normal storage and handling conditions.

INCOMPATIBILITY:	Slightly reactive with reducing agents, combustible materials, organic materials, metals. Very slightly reactive with acids, alkalis.	CORROSIVE BEHAVIOUR:	Yes
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REACTIVITY AND UNDER WHAT CONDITIONS: Keep away from ignition sources and incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:

SKIN CONTACT:	Yes	EYE CONTACT:	Yes	INHALATION:	Yes	INGESTION:	Yes
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EFFECTS OF ACUTE EXPOSURE TO PRODUCT:

INGESTION: Ingestion of large amounts may cause gastrointestinal upset/irritation, characterized by abdominal cramps/pain

INHALATION: Repeated exposure to this product can cause irritation to the nose, throat and respiratory track. May cause coughing and sneezing.

EYE CONTACT: May cause eye irritation, redness, pain and inflammation.

SKIN CONTACT: Prolonged and repeated contact may cause skin irritation or bluish discoloration (cyanosis) with profuse sweating or flushed skin.

EFFECTS OF CHRONIC EXPOSURE: Can cause headache, stomach pains, vomiting and diarrhea. Under prolonged or repeated overexposure, may produce methemoglobin which reduces oxygen supply in the circulating blood.

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.
OTHER HEALTH EFFECTS	NAV		
SYNERGISTIC PRODUCTS:	NAV		

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

Respirator: A dust mask should be suitable for most applications. Wear respiratory protection for dust/mist where ventilation is inadequate.

Eye: Use chemical safety goggles when there is potential for eye contact.

Skin: Cotton gloves and protective clothing should be used.

Ventilation: Natural ventilation or local exhaust system are adequate for ventilation.

Others: locate safety shower & eyewash station close to chemical handling area.

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 or vapours.

STORAGE REQUIREMENTS: Should be stored in its original containers in a cool dry location. Do not expose sealed containers to temperatures above 49 °C.

LEAK AND SPILL PROCEDURE: Collect all spilled material and store in containers suitable for recycle or disposal. Cleanup personnel should wear personal protective equipment as necessary to prevent skin/eye contact.

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WASTE DISPOSAL: Dispose of this product as an industrial fertilizer. Reclaim waste where possible. Dispose of waste as required by applicable federal, state, and local 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. 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. Hold eyelids open during flushing. 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. Induce vomiting. If spontaneous 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

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.