

MATERIAL SAFETY DATA SHEET

Page 1 of 3

SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT TURF 12-2-12

IDENTIFIER:

PRODUCT USE: Liquid Fertilizer **SUPPLIER'S NAME:** Same as manufacturer

MANUFACTURER'S Agrisol Manufacturing ADDRESS: Same as manufacturer

NAME: Inc.

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) | | | |
| Potassium Nitrate | 7757-79-1 | LD ₅₀ (rat, oral) 3750 mg/kg | | | |
| Phosphoric Acid | 7664-38-2 | LD ₅₀ (oral male rat) 1530 mg/Kg | | | |
| | | LD ₅₀ (dermal rabbit) 2730 mg/Kg | | | |
| | | Inhalation LC ₅₀ (rat) 850 mg/m ³ | | | |
| 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 | | | |
| Manganese Sulphate | 10034-96-5 | Oral rat LD50: 2150 mg/Kg. | | | |
| Zinc (Zn) Sulphate | 7446-20-0 | Acute Dermal LD50 Rat: > 2000 mg/kg | | | |
| * | | Acute Oral LD50 Rat: 623 mg/kg | | | |

SECTION 2 _ HAZARDOUS INCREDIENTS

SECTION 3 – PHYSICAL DATA

15708-41-5

10043-35-3

LD₅₀ (rat, oral) >5000 mg/kg

LD₅₀ (rat, oral) 2660 mg/kg

| PHYSICAL STATE: | Liquid | ODOUR & APPEARANCE | Brownish liquid; Slight odor |
|------------------------|-----------|-------------------------------|------------------------------|
| ODOUR THRESHOLD | NAV | VAPOUR PRESSURE | Negligible |
| (ppm): | | (mmHg): | |
| VAPOUR DENSITY(air=1): | NAP | SPECIFIC GRAVITY: | 1.17 g/ml |
| pH: | 5.0 - 6.0 | BOILING POINT (°C) | 100 |
| 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

Iron (Fe) EDTA

Borax

IF YES, UNDER WHAT Even though product is not combustible, it can contribute to combustion as a source

CONDITIONS? of fuel.

MEANS OF

EXTINCTION: Water spray or fog, foam, Carbon dioxide or halon

SPECIAL If possible remove containers from fire area without risk. Spray water from as far a distance as

PROCEDURES: possible.

| MATERIAL SAFETY DATA SHEET Page 2 of 3 | | | | | Page 2 of 3 | |
|--|--|-----------------------|---|------------|-----------------------|-------------|
| FLASHPOINT (°C) & METHOD: | NAV | | AUTO IGNITION TEMPERATURE (° | C) | NAP | |
| LOWER FLAMMABLE LIMIT (% by volume): | NAP | | UPPER FLAMMAB LIMIT (% by volum | | NAP | |
| SENSITIVITY TO IMPACT: | Some | e evidence | SENSITIVITY TO STATIC DISCHAR | GE: | No evidence | |
| HAZARDOUS COMBUSTION PRODUCTS: | | | | | | |
| | | SECTION 5 – | REACTIVITY DATA | | | |
| CHEMICAL STABILITY: | Stable u | nder normal condition | ons | | | |
| INCOMPATIBILITY: | Strong A | Alkalis | | | ORROSIVE EHAVIOUR: | Corrosive |
| REACTIVITY AND UNDER CONDITIONS: | WHA | • | way from ignition sources, shoatible materials. | ock, wate | er/moisture, hea | t and |
| HAZARDOUS DECOMPOSITION See hazardous combustion products (Section 4). PRODUCTS: | | | | | | |
| | SECT | TION 6 – TOXIC | OLOGICAL PROPERTI | ES | | |
| ROUTES OF ENTRY: | | | | | | |
| 51111 001 111011 100 | | SORPTION: Yes | EYE CONTACT: Yes INF | HALATIO | N: No INGI | ESTION: Yes |
| EFFECTS OF ACUTE EXPO | | | | | | |
| | | | use gastrointestinal irritation | | | |
| | | | hea. Ingestion may also cause | | | |
| | 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 | | | | | |
| methae | methaemoglobin. | | | | | |
| INHALATION: NAP | | | | | | |
| EYE CONTACT: May ca | use eye | irritation | | | | |
| SKIN CONTACT: May cause skin irritation | | | | | | |
| 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. | | | | | | |
| EXPOSURE STANDARDS: | | inaj se acasasa, e | specially the jun and teem | | | |
| MUTAGENICITY: | 27.177 | | | | | |
| REPRODUCTIVE HAZARI |): | NAV | TERATOGENICITY: | NAV | | |
| IRRITANCY: | | Yes | SENSITIZATION: | Yes | | |
| SYNERGISTIC PRODUCTS | NERGISTIC PRODUCTS: NAV | | , | • | | |
| SECTION 7 – PREVENTIVE MEASURES | | | | | | |
| PERSONAL | Hands v | vear: Water resistar | nt rubber type gloves (latex, n | itrile, PV | C). | |
| | Respirator: Wear- NIOSH approved filter cartridge to remove avoid inhalation of vapours. | | | vapours. | | |
| EQUIPMENT: Eye: Wear safety goggles. | | | | | | |
| Footwear: Wear work boot/rubber boots. | | | | | | |
| | Clothing: Long sleeve and pants - no special clothing required. | | | | | |

| | MATERIAL SAFETY DATA SHEET Page 3 c |
|------------------------------|---|
| 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 vapours. 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 splasl 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 INFORMAT | |
| US and Canada: Not regu | |
| International Shipping: N | 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.