

MATERIAL SAFETY DATA SHEET

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SECTION 1 – PRODUCT IDENTIFICATION AND USE

PRODUCT TURF 18-3-4

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(866) 246-3378

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
Iron (Fe) EDTA	15708-41-5	LD ₅₀ (rat, oral) >5000 mg/kg
Borax	10043-35-3	LD ₅₀ (rat, oral) 2660 mg/kg

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Greenish 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)	0 °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 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.

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FLASHPOINT (°C) & METHOD:	NAV		AUTO IGNITION TEMPERATURE (°	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 Stable under normal conditions Stable under normal conditions							
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 and collapse. Other symptoms				
			so cause effects on the blood i				
methae	moglob	in.					
INHALATION: NAP							
EYE CONTACT: May ca	use eye	irritation					
SKIN CONTACT: May ca	use skir	irritation					
EFFECTS OF CHRONIC EXPOSURE:							
Chronic exposure may cause ki							
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:	TAGENICITY: NAV						
REPRODUCTIVE HAZARI):	NAV	TERATOGENICITY:	NAV			
IRRITANCY:		Yes	SENSITIZATION:	Yes			
SYNERGISTIC PRODUCTS: NAV		,	•				
SECTION 7 – PREVENTIVE MEASURES							
PERSONAL	Hands v	vear: Water resistar	nt rubber type gloves (latex, n	itrile, PV	C).		
	Respira	tor: Wear- NIOSH	approved filter cartridge to re	move avo	oid inhalation of	vapours.	
EQUIPMENT:	Eye: Wear safety goggles.						
Footwear: Wear work boot/rubber boots.							
	Clothing: Long sleeve and pants - no special clothing required.						

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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 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.