Rev A 5-3-18

BIO HUMA NETICS Incorporated

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SAFETY DATA SHEET Fertilgold® Fe

HMIS		
HEALTH	2	
FLAMMABILITY	0	
PHYSICAL HAZARD	0	
PPE	С	

PRODUCT IDENTIFIER:	Fertilgold® Fe			Product#	1850		
GENERAL USE:	Used as a part of a plar	nt nutrition program.					
PRODUCT DESCRIPTION:	A slightly hazy green to	green brown liquid	with a chai	acteristic od	or.		
SUPPLIER INFORMATION:	MATION: Fertilgold® Organics Manufactured by:			EMERGENCY PHONE NUMBERS			MBERS
For Additional SDS call: 480-961-1220	Bio Huma Netics, Inc. 1331 W Houston Avenue Gilbert, AZ 85233	PHONE: (480) 961-	1220	СНЕМТ		the USA) 800 ternational) 70	
	SECTIO	N 2: HAZARDS II	DENTIFIC	ATION			
HAZARDS the	slightly hazy green to gree e eyes and skin. Inhalatior r ingestion or inhalation of	n of mists may be irr	itating to th				
HA PF gld CI SI HA	GNAL WORD: DANGER AZARD STATEMENT: H3 RECAUTIONARY STATE oves/protective clothing/ey LASSIFICATION: HAZAR GNAL WORD: WARNING AZARD STATEMENT: H3 RECAUTIONARY STATE SECTION 3: COMPO	EMENT: P260; Do e protection/face pro D CATEGORY 5 - N ; 03 - WARNING – ma MENT: P312; Call a	o not bre otection P2 IAY BE HA ay be harn poison cel	eathe dusts 264; Wash ha MRMFUL IF S nful if swallow nter/doctor/p ON INGRI	/mist/vapors. ands thoroug SWALLOWE wed hysician if yc	hly after handl D ou feel unwell	ing
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H/ PF gk CI SI H/ PF	AZARD STATEMENT: H3 RECAUTIONARY STATE oves/protective clothing/ey LASSIFICATION: HAZAR GNAL WORD: WARNING AZARD STATEMENT: H3 RECAUTIONARY STATE SECTION 3: COMPO <u>CAS # OSH</u> 7782-63-0 Eye Resp	EMENT: P260; Do e protection/face pro D CATEGORY 5 - M 03 - WARNING – ma MENT: P312; Call a DSITION & INFOR A HAZARD Corrosive; Skin, & piratory Irritant; erately Toxic by	o not bre otection P2 IAY BE HA ay be harm poison cer RMATION	eathe dusts 264; Wash ha NRMFUL IF S Inful if swallow Inter/doctor/p ON INGRI ACC	/mist/vapors. ands thoroug SWALLOWE wed hysician if yo EDIENTS	hly after handl D ou feel unwell OS	ing SHA

			N 4: FIRST AID ME			
INHALATION:	If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.					
EYE CONTACT:		In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention if irritation persists.				
SKIN CONTACT:	In case of contact, flush before reuse. If irritation				ontaminated clothing and	l shoes and wash
INGESTION:	If swallowed, get medica Never give anything by			duce vomiting unle	ess directed to do so by n	nedical personnel.
NOTE TO PHYSICIANS:	consideration should be	e given to ca effects follow considered.	areful endoscopy as st	omach or esopha	ingestion. If a large amo ageal irritation may occu reful gastric lavage with a	r, with possible
		SECTION 5	5: FIRE FIGHTING I	MEASURES		
Flashpoint and						
Flammable Limi	ts (in air, % by volume)	Lower:	Not applicable	Upper:	Not applicable	
Autoignition Te	mperature: Not applic	able				
GENERAL HAZARI					pounds. The Uniform F s decomposition product	
FIRE FIGHTING INS	TRUCTIONS:		ISHING MEDIA: Wate er spray or fog to cool		ry chemicals. posed to the heat of a fire	9.
FIRE FIGHTING EQ	UIPMENT:	Fire fighte apparatus	•	rotective equipm	ent, including self-conta	ained breathing
HAZARDOUS COM	HAZARDOUS COMBUSTION PRODUCTS: When heated to dryness and decomposition, it emits toxic carbon monoxide, carbon dioxide, iron oxide, sulfur oxides and nitrogen oxides, with trace or ultra-trace toxic oxide amounts, of zinc, copper, potassium, phosphorus, manganese, magnesium, calcium and sodium plus irritating smoke.					
	SEC	TION 6: AC	CIDENTAL RELEA	SE MEASURES	8	
RELEASE TO LAND:	RELEASE TO Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or					
RELEASE TO WATER: Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.						
		SECTION	7: HANDLING AND	STORAGE		
STORAGE TEMPE				STORAGE P	RESSURE: Ambient	
GENERAL: Store in a cool, dry, well-ventilated, area away from incompatible materials and products. Protect eyes, skin and clothing from contact with this product. Wear recommended personal protective equipment when handling this product. Avoid breathing vapors or mists. Use with adequate ventilation. Do not take internally. Keep the container tightly closed when not in use. Wash thoroughly after handling this product.						

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION					
CONTROL MEASURES:					
RECOMMENDED PE	RSONAL PROTECTIVE EQU	IIPMENT			
RESPIRATOR:	approved half mask or full fa	acepiece resp ays consult t	uired. If use produces mists or aeroso pirator equipped with a good mist / p he respirator manufacturer's data v	articulate cartridge or supplied air is	
EYES:			ANSI Z87.1-1979), unless a full facep urer's data when determining the suit		
GLOVES:			Natural Rubber gloves. Note: Alwaritability of gloves prior to use.	ys consult the glove manufacturer's	
CLOTHING & EQUIPMENT:	eye wash station and sa	fety shower	le, Butyl Rubber or Natural Rubber ap should be available in the work eation data when determining the suit	area. Note: Always consult the	
FOOTWEAR:			ely, wear Neoprene, Nitrile, Butyl Rub er's permeation data when determinir		
	SECTION 9	: PHYSICAL	AND CHEMICAL PROPERTIES		
Appearance:	Slightly hazy green-gree		Bulk Density (pounds/ft ³):	Not applicable	
Physical State:	Liquid		Vapor Pressure:	No data available	
Odor:	Characteristic		Vapor Density (air=1):	No data available	
Odor Threshold:	No data available		Evaporation Rate (n-Butyl Acetate=1):	Less than 1	
Molecular Formula:	Mixture		VOC Content / Organic Matter:	≤1 gm/Liter / 7.74%	
Molecular Weight:	Not applicable		% Volatile:	Approximately 50	
Boiling Point:	Greater than 100° C. (2 ²	12° F.)	Solubility in H ₂ O:	Complete	
Freezing/Melting Point	Less than 0° C. (32° F.)	-	Octanol/Water Partition Coefficient:	No data available	
Specific Gravity:	1.19 @ 20° C.		pH (as is):	1.5 - 2.0	
Density (pounds/gallon):	Approximately 9.92		pH (1% solution):	No data available	
	SECT	ION 10: ST/	ABILITY AND REACTIVITY		
GENERAL: This	product is stable and hazardou				
CONDITIONS TO AV	CONDITIONS TO AVOID: Do not store this product below 50° F (10° C) or above 90° F (30° C)				
INCOMPATIBLE MATERIAL: Contact caustics & alkali, strong oxidizers, sulfides, sulfites, cyanides and chlorine releasers.					
HAZARDOUS DECO	HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic oxides of carbon, iron, sulfur and nitrogen, with trace or ultra-trace toxic oxide amounts, of zinc, copper, potassium, phosphorus, manganese, magnesium, calcium and sodium plus irritating smoke.				
SENSITIVITY TO ME	SENSITIVITY TO MECHANICAL IMPACT: This product is <u>not</u> sensitive to mechanical impact.				
SENSITIVITY TO ST	SENSITIVITY TO STATIC DISCHARGE: This product is <u>not</u> sensitive to static discharge.				

SECTION 11: TOXICOLOGICAL INFORMATION

Components:	Ferrous Sulfate Heptahydrate	Citric Acid Anhydrous
Eye Contact:	No data available	Rabbit: 750 ug/24 Hours; Severe
Skin Contact:	No data available	Rabbit: 500 mg/24 Hours; Moderate
Oral Rat LD₅₀:	319 mg/kg	3 gm/kg
Dermal Rabbit LD ₅₀ :	No data available	No data available
Inhalation Rat LC₅₀:	No data available	No data available
Human Data:	Oral Woman TD _{Lo} : 10,560 ug/kg; Gastrointestinal effects	No data available
Other Toxicological Data:	Oral Mouse LD ₅₀ : 680 mg/kg	Intravenous Mouse LD ₅₀ : 42 mg/kg
Carcinogenicity:	Subcutaneous Mouse TD _{Lo} :1,600 mg/kg/16 Weeks; Equivocal Tumorigenic Agent, Tumors at application site	No data available
Teratogenicity:	Oral Rat TD _{Lo} : 7,200 mg/kg (9-14 Days pregnant); Effects on Embryo or Fetus – Fetal death	No data available
Mutagenicity:	Cytogenetic Analysis – Hamster, Ovary: 5 mmol/ Liter	No data available
Synergistic Products:	None reported	None reported
Target Organs:	Eyes, Skin, Lungs, Liver, Gastrointestinal tract & Lymphatic System	Eyes, Skin, Mucous membranes, Lungs & Teeth
Medical Conditions Aggravated By Exposure:	Skin, Liver or Respiratory disorders	Skin or Respiratory disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is soluble in water and can affect the pH of water. No specific environmental fate data is available.

ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product has not been determined.

	SECTION 13: DISPOSAL CONSIDERATIONS
RCRA 40 CFR 261 CLASSIFICATON:	Corrosive
U.S. EPA WASTE NUMBER/DESCRIPTION:	D002

If this product is disposed of as shipped, it meets the criteria of a hazardous waste as defined under 40 CFR 261 due to its corrosivity. If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly. As a hazardous liquid waste, it must be disposed of in accordance with local, state, and federal regulations in a permitted hazardous waste treatment, storage, and disposal facility.

SECTION 14: TRANSPORTATION INFORMATION				
DOT PROPER SHIPPING NAME:	Corrosive Liquid, n.o.s., (Contains 0 Hazard Class: 8	Citric Acid), UN Number: UN1760	Packing Group:	
	Primary Label: Corrosive Primary/Subsidiary Placards:	Subsidiary Label(s): None None		
DOT Reportable Quantity (RQ):	Not Applicable	RQ for Product: Not Applicab	ble	
Marine Pollutant:	No			
2012 North American Emergency R	Response Guidebook No.: 15	4		
TDG PROPER SHIPPING NAME:	Corrosive Liquid, n.o.s., (Contains (Citric Acid),		
	Hazard Class: 8	UN Number: UN1760	Packing Group:	
l	Primary Label: Corrosive	Subsidiary Label(s):	None	
	Primary/Subsidiary Placards:	None		
TDG Reportable Quantity (RQ): *	Not applicable			
TDG Schedule XII:	Not listed			
Regulated Limit (RL): **	Not listed	RL for Product: N/A		
Regulated Linit (RL).	Not listed	Re for Froduct. N/A		

* Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1). ** Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.

SECTION 15: REGULATORY INFORMATION

COMPONENTS:	<u>Ferrous Sulfate</u> <u>Heptahydrate</u>	Citric Acid Anhydrous
OSHA Target Organs:	Eyes, Skin, Lungs, Liver, Gastrointestinal & Lymphatic Systems	Eyes, Skin, Mucous membranes, Lungs & Teeth
Carcinogenic Potential:		
Regulated by OSHA:	No	No
Listed on NTP Report:	No	No
Listed by IARC:	No	No
IARC Group:	Not applicable	Not applicable
ACGIH Appendix A:	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable
U.S. EPA Requirements		
Release Reporting		
CERCLA (40 CFR 302)		
Listed Substance:	Yes	Not listed
Reportable Quantity:	1,000 pounds	Not applicable
Category:	С	Not applicable
RCRA Waste No.:	None listed	Not applicable
Unlisted Substance:	Not applicable	Yes
Reportable Quantity:	Not applicable	100 pounds
Characteristic:	Not applicable	Corrosivity
RCRA Waste No.:	Not applicable	D002

SECTION 15: REGULATORY INFORMATION (Continued from Page 4)				
COMPONENTS:	Ferrous Sulfate Heptahydrate	Citric Acid Anhydrous		
SARA TITLE III Section 302 & 303 (40 CFR 355 Listed Substance: Reportable Quantity: Planning Threshold:): Not listed Not applicable Not applicable	Not listed Not applicable Not applicable		
Section 311 & 312 (40 CFR 370 Hazard Categories (product): Planning threshold:): Fire: <u>N</u> Sudden Release of Pr 10,000 pounds	ressure: <u>N</u> Reactive: <u>N</u> Acute Health: <u>Y</u> Chronic Health: <u>N</u> 10,000 pounds		
Section 313 (40 CFR 372): Listed Toxic Chemical: Reporting Threshold:	Not listed Not applicable	Not listed Not applicable		
U.S. TSCA Status Listed (40 CFR 710):	Yes	Yes		
State Regulations State of California: Safe Drinki Carcinogen: Reproductive Toxin:	ing Water and Toxins Enforcement Act No No	, 1986 (Proposition 65): No No		
Other Regulations State Right To Know Laws:	None known	MA, NJ, PA		
Canadian Regulations Product Information: Controlled Product: WHMIS Hazard Symbols: WHMIS Class & Division:	Yes Material Causing Other Toxic Effec D.2B	cts		
Ingredient Information: IDL Substance: DSL or NDSL Lists:	No DSL	Yes DSL		
	SECTION 16: OT	THER INFORMATION		
EPA Registration number:	Not applicable			
Approved Product Uses:	Used as a part of a plant nutrition p	rogram.		
Special Notes:				
This product is not manufactured, or formulated to contain substances, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains mined minerals, this product may contain trace (parts per million) or ultra-trace (parts per billion) of elements known to the State of California to cause cancer, birth defects or other reproductive harm.				
Special Instructions: When making dilutions, always add Fertilgold® Fe to water with adequate mixing to ensure a uniform solution. Do not add this product to hypochlorite bleaches, chlorine sanitizers, or chlorinated cleaners as this can liberate toxic, corrosive Chlorine gas.				

SDS Revision Information: Revised Date: NA

SDS Distributed by: Bio Huma Netics, Inc.

Prepared By:	Frank S. Pidgeon, Sr. EHSS Director	Date	May 3 rd 2018

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