



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

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PRODUCT IDENTIFIER:	VITAL IRON (Fe)		
PRODUCT USE:	Chelating agent, Plant Nutrient Supplement		
MANUFACTURER'S NAME:	Agrisol Manufacturing Inc.	SUPPLIER'S NAME:	Same as manufacturer
ADDRESS:	220 – 7565, 132 Street, Surrey, BC, V3Z 1K7 Canada	ADDRESS:	Same as manufacturer
IN CASE OF EMERGENCY: 1(604) 805-2417			

SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	LD ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Iron (Fe) EDTA	15708-41-5	LD ₅₀ (male rat) 2710 mg/kg & 3160 mg/kg in female rats.

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Odorless, yellow green liquid,
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mmHg):	NAV
VAPOUR DENSITY (air=1):	NAP	SPECIFIC GRAVITY:	1.15 g/ml
pH:	6.5	MELTING POINT RANGE (°C)	NAP
FREEZING POINT (°C)	NAV	EVAPORATION RATE:	NAP
COEFF. WATER/OIL DIST	NAV	SOLUBILITY (in water):	Soluble

SECTION 4 – FIRE AND EXPLOSION DATA

FLAMMABLE: No			
IF YES, UNDER WHAT CONDITIONS?		Product is stable at room temperature & atmospheric pressure. When involve in fire, it does not contribute any unusual hazards.	
MEANS OF EXTINCTION:		Use water dry chemical, fog, foam, CO ₂ .	
FIRE FIGHTING PROCEDURES: In case of fire prevents human exposure to fire, smoke, fumes or products of combustion. Fire fighters should use appropriate protective equipment and evacuate non-essential personnel from fire area. .			
DECOMPOSITION TEMPERATURE (°C) :	NAV	AUTOIGNITION TEMPERATURE (°C)	NAV
LOWER FLAMMABLE LIMIT (% by volume):	NAP	UPPER FLAMMABLE LIMIT (% by volume):	NAP
SENSITIVITY TO IMPACT:	No evidence	SENSITIVITY TO STATIC DISCHARGE:	No evidence
HAZARDOUS COMBUSTION PRODUCTS:	NAV	HAZARDOUS POLYMERIZATION	Hazardous polymerization is not expected to occur under normal temperatures and procedures.

NAP: Not applicable NAV: Not available

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SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions.

INCOMPATIBILITY:	Strong oxidizers and aluminum. Layered on hot surface might cause glow. Avoid prolonged storage at high temperatures.	CORROSIVE BEHAVIOUR:	NAV
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REACTIVITY AND UNDER WHAT CONDITIONS: Temperatures in excess of 150°C.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may release toxic or hazardous fumes and gases, including nitrogen oxides and carbon dioxides.

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:

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

INGESTION: May be harmful if swallowed. Seek medical help if symptoms persist.

INHALATION: Avoid inhalation. Exposure to an excessive concentration of dust may cause respiratory track irritation.

EYE CONTACT: May cause eye irritation. Flush eyes with plenty of running water. Seek medical attention if irritation persists.

SKIN CONTACT: Avoid prolonged or repeated skin contact. May cause skin irritation and possible skin sensitization.

EFFECTS OF CHRONIC EXPOSURE: Based on some animal data material contain in the product may cause target organ damage.

CARCINOGENICITY:	No data available	MUTAGEN CITY:	No evidence
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REPRODUCTIVE HAZARD:	No known significant effects	TERATOGENICITY:	No known significant effects or critical hazards.
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IRRITANCY:	Yes	SENSITIZATION:	Yes
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SYNERGISTIC PRODUCTS:	NAV
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SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

Hands: Wear chemical resistant impervious gloves. Wear chemical safety goggles and face shield if dust generation is possible.

Eyes: Wear safety eyewear with approved standard when a risk of splashes or dust generation is possible.

Foot Wear: Impervious safety boots.

Clothing's: Wear coveralls with an impervious apron to protect street clothing.

Respirator: A NIOSH or MSHA approved respirator should be worn if handling operation generates dust.

ENGINEERING CONTROLS: Ventilate to control dust. Keep good housekeeping.

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HANDLING PROCEDURES:	Use containment whenever possible and personal protective equipment where splashing or potential for contact exists. Workers should wash hand and face before eating, drinking or smoking.
STORAGE REQUIREMENTS:	Keep containers close and store in cool, dry place away from heat sources. Isolate from strong oxidizers and avoid contact with aluminum. Avoid direct and prolonged contact with skin. Keep separate from incompatible materials.
LEAK AND SPILL PROCEDURE:	Sweep, shovel or vacuum into sealable waste containers. Flush area with plenty of water. Prevent contamination of sewers, streams, lakes, ponds and domestic waterways. Ventilate area of spill or leak.
WASTE DISPOSAL:	Dispose in compliance with government requirements and local disposal regulations.

SECTION 8 – FIRST AID MEASURES

INHALATION:	Move victim to fresh air. Oxygen may be given under doctor's advice. If victim has irregular or difficulty or under respiratory arrest seek medical attention immediately. If other conditions or symptoms develop contact a physician.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with water for fifteen (15) minutes. Do not attempt to neutralize with chemical agents. Obtain medical attention if irritation or redness persists.
EYE CONTACT:	Flush eyes thoroughly while holding upper and lower eye lids for a minimum of 15 minutes. Obtain medical attention if symptoms or condition persists. DO Not let victim rub eyes.
INGESTION:	Call physician immediately. If victim is conscious, rinse mouth and give water to drink. Never give anything by mouth to an unconscious person. Only induce vomiting on the instructions of doctor.

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

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.

BUSINESS NUMBER: 604-805-2417

DATE: October, 2015