



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT IDENTIFICATION AND USE

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**PRODUCT IDENTIFIER:** Vital Max

**PRODUCT USE:** Foliar fertilizer

**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 <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Zinc (Zn) EDTA	14025-21-1	LD <sub>50</sub> ( rat, oral) 1750 mg/kg (Lit)
Copper (Cu) EDTA	14025-15-1	LD <sub>50</sub> (rat, oral) 350 mg/kg LC <sub>50</sub> (rat, Inhalation) 2000 ppm (4hr)

## SECTION 3 – PHYSICAL DATA

<b>PHYSICAL STATE:</b>	Liquid	<b>ODOUR &amp; APPEARANCE</b>	Dark brown odorless liquid
<b>ODOUR THRESHOLD (ppm):</b>	NAV	<b>VAPOUR PRESSURE (mmHg):</b>	NAV
<b>VAPOUR DENSITY (air=1):</b>	NAP	<b>SPECIFIC GRAVITY:</b>	1.21 g/ml
<b>pH:</b>	6.0 – 6.5	<b>MELTING POINT RANGE (°C)</b>	NAP
<b>FREEZING POINT (°C)</b>	NAV	<b>EVAPORATION RATE:</b>	NAP
<b>COEFF. WATER/OIL DIST</b>	NAV	<b>SOLUBILITY (in water):</b>	Soluble

## SECTION 4 – FIRE AND EXPLOSION DATA

**FLAMMABLE:** Not flammable or combustible.

**IF YES, UNDER WHAT CONDITIONS?** Product is stable at room temperature & atmospheric pressure.

**MEANS OF EXTINCTION:** Use water spray, dry chemicals and CO<sub>2</sub>.

**FIRE FIGHTING PROCEDURES:** Use water to cool containers exposed to fire. Fire fighters should use appropriate protective equipment and evacuate non-essential personnel from fire area.

<b>DECOMPOSITION TEMPERATURE (°C) :</b>	NAP	<b>AUTOIGNITION TEMPERATURE (°C)</b>	NAV
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<b>LOWER FLAMMABLE LIMIT (% by volume):</b>	NAP	<b>UPPER FLAMMABLE LIMIT (% by volume):</b>	NAP
<b>SENSITIVITY TO IMPACT:</b>	No evidence	<b>SENSITIVITY TO STATIC DISCHARGE:</b>	No evidence
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	None Known	<b>HAZARDOUS POLYMERIZATION</b>	None known

## SECTION 5 – REACTIVITY DATA

<b>CHEMICAL STABILITY:</b>	Stable under normal conditions. Not self reacting and is not sensitive to physical impact.		
<b>INCOMPATIBILITY:</b>	NAV	<b>CORROSIVE BEHAVIOUR:</b>	NAV
<b>REACTIVITY AND UNDER WHAT CONDITIONS:</b>	This product is stable at ambient temperatures and atmospheric pressures.		
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	None known		

## SECTION 6 – TOXICOLOGICAL PROPERTIES

<b>ROUTES OF ENTRY:</b>									
<b>SKIN CONTACT:</b>	Not known	<b>SKIN ABSORPTION:</b>	Not known	<b>EYE CONTACT:</b>	Yes	<b>INHALATION:</b>	Yes	<b>INGESTION:</b>	Yes
<b>EFFECTS OF ACUTE EXPOSURE TO PRODUCT:</b>									
<b>INGESTION:</b>	Slightly hazardous in case of ingestion. May cause low order of acute toxicity.								
<b>INHALATION:</b>	Avoid inhalation of vapors. Excessive exposure may cause respiratory track irritation.								
<b>EYE CONTACT:</b>	May cause eye irritation. Flush eyes with plenty of running water. Seek medical attention if irritation persists.								
<b>SKIN CONTACT:</b>	Avoid prolonged or repeated skin contact. May cause skin irritation and possible skin sensitization.								
<b>EFFECTS OF CHRONIC EXPOSURE:</b> NAV									
<b>CARCINOGENICITY:</b>	Not determined.				<b>MUTAGEN CITY:</b>	Not determined.			
<b>REPRODUCTIVE HAZARD:</b>	Not determined.				<b>TERATOGENICITY:</b>	Not determined.			
<b>IRRITANCY:</b>	Yes				<b>SENSITIZATION:</b>	Yes			
<b>SYNERGISTIC PRODUCTS:</b>	NAV								

## SECTION 7 – PREVENTIVE MEASURES

<b>PERSONAL PROTECTIVE EQUIPMENT:</b>	<p><b>Hands:</b> Wear PVC or chemical resistant impervious gloves to avoid skin contact.</p> <p><b>Eyes:</b> Wear safety eyewear with approved standard when a risk of splash is possible. Do not wear contact lenses.</p> <p><b>Foot Wear:</b> Impervious safety boots.</p> <p><b>Clothing's:</b> Wear coveralls with an impervious apron to protect street clothing.</p> <p><b>Respirator:</b> Required when aerosol are generated. Wear a mask to avoid inhalation.</p>
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<b>ENGINEERING CONTROLS:</b>	Ventilate to control fumes. Keep good housekeeping.
<b>HANDLING PROCEDURES:</b>	Use personal protective equipment where splashing or potential for contact exists. Workers should wash hand and face before eating, drinking or smoking.
<b>STORAGE REQUIREMENTS:</b>	Keep containers close and store in cool, dry place away from heat sources. Avoid direct and prolonged contact with skin. Keep separate from incompatible materials.
<b>LEAK AND SPILL PROCEDURE:</b>	Sweep 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.
<b>WASTE DISPOSAL:</b>	Dispose in compliance with government requirements and local disposal regulations. Avoid entry into water sources.

**SECTION 8 – FIRST AID MEASURES**

<b>INHALATION:</b>	Move victim to fresh air. If other conditions or symptoms develop contact a physician.
<b>SKIN CONTACT:</b>	Remove contaminated clothing. Wash affected area with water for fifteen (15) minutes. Obtain medical attention if irritation or redness persists.
<b>EYE CONTACT:</b>	Flush eyes thoroughly while holding upper and lower eye lids for a minimum of 15 minutes. Obtain medical attention if symptoms or condition persists.
<b>INGESTION:</b>	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:** November, 2015