



MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE

Page 1 of 3

PRODUCT IDENTIFIER: Vital Zinc

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 ₅₀ OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Zinc (Zn) EDTA	14025-21-1	LD ₅₀ (rat, oral) 1750 mg/kg (Lit)

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE:	Liquid	ODOUR & APPEARANCE	Dark brown dorless liquid
ODOUR THRESHOLD (ppm):	NAV	VAPOUR PRESSURE (mmHg):	NAV
VAPOUR DENSITY (air=1):	NAP	SPECIFIC GRAVITY:	1.20 g/ml
pH:	5.5	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: Not flammable or combustible.

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

MEANS OF EXTINCTION: Use water dry chemical, fog, foam and CO₂.

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.

DECOMPOSITION TEMPERATURE (°C) :	NAP	AUTOIGNITION TEMPERATURE (°C)	NAV
---	-----	--------------------------------------	-----

MATERIAL SAFETY DATA SHEET

Page 2 of 3

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:	May include but not limited to oxides of Zn.	HAZARDOUS POLYMERIZATION	Under normal temperatures and procedures hazardous polymerization is not expected to occur.

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions. Not self reacting and is not sensitive to physical impact.			
INCOMPATIBILITY:	NAV	CORROSIVE BEHAVIOUR:	NAV
REACTIVITY AND UNDER WHAT CONDITIONS:		This product is stable at ambient temperatures and atmospheric pressures.	
HAZARDOUS DECOMPOSITION PRODUCTS:		NAV	

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY:									
SKIN CONTACT:	Yes	SKIN ABSORPTION:	Yes	EYE CONTACT:	Yes	INHALATION:	Yes	INGESTION:	Yes
EFFECTS OF ACUTE EXPOSURE TO PRODUCT:									
INGESTION:		Slightly hazardous in case of ingestion. Symptoms include nausea and vomiting.							
INHALATION:		Avoid inhalation. Exposure to an excessive concentration of fumes 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: NAV									
CARCINOGENICITY:		NAV			MUTAGEN CITY:		No evidence		
REPRODUCTIVE HAZARD:		No known significant effects			TERATOGENICITY:		No known significant effects or critical hazards.		
IRRITANCY:		Yes			SENSITIZATION:		Yes		
SYNERGISTIC PRODUCTS:		NAV							

SECTION 7 – PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:	<p>Hands: Wear chemical resistant impervious gloves. Wear chemical safety goggles and face shield if dust generation is possible.</p> <p>Eyes: Wear safety eyewear with approved standard when a risk of splashes or contact is possible.</p> <p>Foot Wear: Impervious safety boots.</p> <p>Clothing's: Wear coveralls with an impervious apron to protect street clothing.</p> <p>Respirator: Required when aerosol are generated. A NIOSH or MSHA approved respirator should be worn when dust levels exceed 15 mg/m³.</p>
---------------------------------------	--

MATERIAL SAFETY DATA SHEET

Page 3 of 3

ENGINEERING CONTROLS:	Ventilate to control fumes. Keep good housekeeping.
HANDLING PROCEDURES:	Use 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. Avoid direct and prolonged contact with skin. Keep separate from incompatible materials.
LEAK AND SPILL PROCEDURE:	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.
WASTE DISPOSAL:	Dispose in compliance with government requirements and local disposal regulations.

SECTION 8 – FIRST AID MEASURES

INHALATION:	Move victim to fresh air. If other conditions or symptoms develop contact a physician.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with water for fifteen (15) minutes. 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.
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:** November, 2015