

SAFETY DATA SHEET (SDS)

Agro-K Corporation

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zinc Plus+5 D.L.
 Common Name: Liquid fertilizer
 Identified Uses: Intended for agriculture. Not for human consumption.

Supplier: AGRO-K CORPORATION
 8030 MAIN STREET NE
 MINNEAPOLIS, MN 55432
 Telephone: (763) 780-4116 / (800) 328-2418
 FAX: (763) 780-4316

CHEMTREC
 Emergency Telephone: (800) 424-9300

II. HAZARDS IDENTIFICATION

Classification:
 Eye Irritant 2B H320
 Oral Irritant 5 H305
 Aquatic Acute 3 H402



Hazard pictogram:

Signal word: Warning
 Hazard statements: H320 – May cause eye irritation
 H305 – May be harmful if swallowed
 H402 – May be harmful to aquatic life
 Precautionary statements: P264 – Wash thoroughly after handling
 P270 – Do not eat, drink, or smoke when using this product.
 P273 – Avoid release to environment.
 P303 – Rinse mouth
 P302+P352 – If on skin: Wash with plenty of soap and water
 P308+P313 – If exposed or concerned: Get medical advice/attention
 P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+312 – If swallowed, call a poison center/doctor if you feel unwell
 P332+P313 – If skin irritation occurs: Get medical advice/attention
 P337+P313 – If eye irritation occurs: Get medical advice/attention
 P501 – Dispose of contents/container in accordance with local/regional/national regulations

III. COMPOSITION/INFORMATION ON INGREDIENTS

Blend of the following ingredients:

Chemical Compound	CAS Number
Manganese Sulfate	10034-96-5
Copper Sulfate	7758-99-8
Zinc Carbonate	5263-02-5
Magnesium Carbonate	23389-33-5
Iron Sulfate	7720-78-7
Ammonium Molybdate	12054-85-2

*Ingredients not specifically listed are non-hazardous and are considered to be confidential

IV. FIRST AID MEASURES

If in Eyes:	Hold eyelid open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops and persists, call a poison control center or doctor immediately for treatment advice.
If on Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. If irritation persists, call a poison control center or doctor immediately for treatment advice.
If Swallowed:	Give large quantities of water and do not induce vomiting. Do not give anything to an unconscious or convulsing person. Call a poison control center or doctor immediately for treatment advice.

Hotline Number: Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 1-800-424-9300.

V. FIRE FIGHTING MEASURES

Firefighting notes:	Material will not burn.
Suitable extinguishing media:	Use extinguishing media for surrounding cause of fire.

VI. ACCIDENTAL RELEASE MEASURES

Spill procedure:	Capture product and reuse material if uncontaminated. If contaminated, place in a suitable container for proper disposal.
Clean-up	Mop, vacuum, scoop, or sweep up material and place in container for disposal.

VII. HANDLING AND STORAGE

Precautions for safe handling:	Keep out of reach of children.
Storage Conditions:	Keep in closed container and properly labeled. May be corrosive to copper, brass or mild steel.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand protection:	Wash thoroughly after handling.
Eye protection:	Wear protective eyewear if exposure is expected.
Other information:	Do not eat, drink, or use tobacco during use. Practice good hygiene after use of this material; especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical description:	Liquid
Color:	Dark greenish brown.
Odor:	No data available
Odor threshold:	No data available
Vapor density:	No data available
pH:	No data available
Relative density:	1.282
Melting/freezing point:	0 degrees C (32 degrees F)
Solubility:	Soluble in water
Boiling point:	No data available

Flash point: No data available
 Flammability: No data available
 Vapor Pressure: No data available
 Partition coefficient: No data available
 Auto-ignition temperature: No data available
 Viscosity: No data available

X. STABILITY AND REACTIVITY

Chemical stability: Stable.
 Incompatibility with other materials: Strong acids, strong bases, strong oxidizers, water reactive materials. May be corrosive to copper, brass or mild steel.
 Hazardous combustion: Will not occur.
 Hazardous polymerization: Will not occur.
 Hazardous decomposition products: When heated (in a fire), may carbon dioxide.

XI. TOXICOLOGY

Potential acute toxicity:

Eyes: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: May cause nausea, vomiting, or diarrhea.

Chemical Compound	CAS Number	LD50 oral	LD50 dermal
Zinc Carbonate	5263-02-5	>10000 mg/kg (rat)	
Copper Sulfate	7758-99-8	300 mg/kg (rat)	
Iron Sulfate	7720-78-7	237 mg/kg (rat)	

Potential chronic toxicity:

Chronic effects: No known significant effects or critical hazards
Carcinogenic effects: No known significant effects or critical hazards.
Mutagenic effects: No known significant effects or critical hazards.
Reproductive toxicity: No known significant effects or critical hazards.

XII. ECOLOGICAL INFORMATION

Aquatic ecotoxicity: Iron Sulfate: 96 HR LC50 POECILIA RETICULATA 925 MG/L, 48 HR EC50 DAPHNIA MAGNA 152 MG/L

Biodegradability: Not determined
Environmental Precautions: No known significant effects or critical hazards
Mobility: Not available
Other Adverse Effects: No known significant effects or critical hazards

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal Method: This material must be disposed of according to federal, state, or local procedures under the resource conservation and recovery act.
Container Disposal: Triple rinse and dispose of in accordance the federal, state, and local laws and regulations

XIV. TRANSPORT INFORMATION

Shipping Name: Not regulated by DOT
 Hazard Class: None
 Identification No.: None
 Labels Required: None

Placarding: None

XV. REGULATORY INFORMATION

TSCA Inventory: All components are listed on the TSCA inventory.

SARA Title III Information:

Section 302:	None listed
Section 311/312:	Acute, Chronic
Section 313:	None listed

CERCLA: None listed

California Proposition 65: This product contains chemical(s) known to the State of California to cause cancer and birth defects or reproductive harm.

U.S. State Worker and Community Right-To-Know (RTK) Information:

Canadian Domestic Substances List: All components are listed.

XVI. OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Agro-K, Corporation knowledge. Agro-K, Corporation makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

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