SAFETY DATA SHEET (SDS)

Agro-K Corporation

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Micro-Mix DL 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 H303
Skin Irritant 3 H316
STOTRE 2 H373
Aquatic Acute 3 H402



Hazard pictogram:

Precautionary statements:

Signal word: Warning

Hazard statements: H320 – May cause eye irritation H303 – May be harmful if swallowed

H316 - May skin irritation

H373 – May cause damage to organs through repeated exposure (ingestion)

H402 – May be harmful to aquatic life 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

Proprietary blend of soluble chelated salts of Copper, Iron, Magnesium, Manganese, Molybdenum, Zinc

Agro-K Corporation

Date: 2/12/2015

^{*}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 not flammable.

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: Clear to brownish yellow

Odor: No data available
Odor threshold: No data available
Vapor density: No data available

pH: 3.0 Relative density: 1.250

Melting/freezing point:

Solubility:

Boiling point:

No data available

Soluble in water

No data available

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Flash point:

Flammability:

Vapor Pressure:

Partition coefficient:

Auto-ignition temperature:

Viscosity:

No data available

X. STABILITY AND REACTIVITY

Chemical stability: Stable.

Incompatibility with other materials: Strong acids, strong bases, strong oxidizers, water reactive materials.

Hazardous combustion: Will not occur. Hazardous polymerization: Will not occur.

Hazardous decomposition products: When heated in a fire, may form manganese oxide, carbon monoxide, sulfur

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	LD50 oral	LD50 dermal
Copper ingredient	482 mg/kg (rat)	>2000 mg/kg (rat)
Zinc ingredient	1710 mg/kg (rat)	
Iron ingredient	237 mg/kg (rat)	
Molybdenum ingredient	333 mg/kg (rat)	

Potential chronic toxicity:

Chronic effects: Manganese is a possible mutagen

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.

Target Organs: Central nervous system, lungs

XII. ECOLOGICAL INFORMATION

Aquatic ecotoxicity:

Chemical Compound	Toxicity
Copper ingredient	EC50 - Daphnia magna (Water flea) - 0.024 mg/l - 48 h
Zinc ingredient	Rainbow trout LC50 4.76 MG/L/48HR hard water, 4.6 ppm/96hr/fresh water
Iron ingredient	96 HR LC50 POECILIA RETICULATA 925 MG/L, 48 HR EC50 DAPHNIA MAGNA 152 MG/L
Molybdenum ingredient	LC0 - Oncorhynchus mykiss (rainbow trout) - 320 mg/l - 96 h, LC50 - Oncorhynchus mykiss (rainbow trout) - 420 mg/l - 96 h, EC50 - Daphnia magna (Water flea) - 140 mg/l - 48 h, EC50 - Desmodesmus subspicatus (green algae) - 41 mg/l - 72 h

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

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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

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.

Last Revised: February 6, 2015