

THE ANDERSONS SAFETY DATA SHEET

DATE PREPARED: 08/16/23 CURRENT AS OF: 8/18/23

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10000149, 10002608, 10002777

PRODUCT NAME: CITRIC CHELATED ZINC 10%

PRODUCT USE: Micronutrient

MFR INFO: The Andersons, Inc.

PO Box 119

Maumee, OH 43537

FOR EMERGENCY: (800) 757-8951 FOR INFORMATION: (419) 893-5050

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



DANGER CAUSES SKIN AND RESPIRATORY IRRITATION.
CAUSES SERIOUS EYE DAMAGE. HARMFUL IF

SWALLOWED.

| HAZARD CLASSIFICATIONS: | CATEGORY | INTERPRETATION |
|--------------------------------|----------|--|
| ACUTE TOXICITY, ORAL | 4 | Harmful if swallowed |
| EYE DAMAGE | 1 | Causes serious eye damage |
| SKIN IRRITATION | 2 | Causes skin irritation |
| SPECIFIC TARGET ORGAN TOXICITY | | |
| - SINGLE EXPOSURE | 3 | Causes irritation to respiratory tract |

PRECAUTIONARY STATEMENTS:

- WEAR PROTECTIVE GLOVES AND CLOTHING
- REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE
- DO NOT BREATHE VAPORS/MISTS
- USE ONLY OUTDOORS OR IN WELL-VENTILATED AREA
- IN CASE OF INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION
- IF EXPOSED OR CONCERNED: CALL POISON CONTROL OR SEEK MEDICAL ATTENTION
- WASH THOROUGHLY AFTER HANDLING
- DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT
- IF INHALED: REMOVE TO FRESH AIR AND KEEP COMFORTABLE. IMMEDIATELY CALL POISON CONTROL AND SEEK MEDICAL ATTENTION.
- IF SWALLOWED: RINSE MOUTH, CALL POISON CONTROL AND SEEK MEDICAL ATTENTION
- IF IN EYES OR ON SKIN: RINSE AREA WITH PLENTY OF WATER, REMOVE CONTACT LENSES
- IF EYE OR SKIN IRRITATION CONTINUES: SEEK MEDICAL ATTENTION

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL IDENTITY | <u>SYNONYM</u> | CAS NUMBER | CONCENTRATION (%) |
|--------------------------|----------------|-------------------|-------------------|
| Zinc Sulfate Monohydrate | | 7446-19-7 | 60-70 |
| Citric Acid | | 77-92-2 | 00-10 |
| EDTA | Edetic acid | 60-00-4 | 20-30 |

SECTION 4: FIRST AID MEASURES

IF INHALED: Move to fresh air and keep comfortable, seek medical attention if unwell.

IF ON SKIN: Wash affected areas with soap and water. Seek medical attention if irritation

persists. Wash contaminated clothing before re-use.

IF IN THE EYES: Immediately flush with water for 15-20 minutes, remove contact lenses if

present and easy to do - continue rinsing and seek medical attention.

IF SWALLOWED: Rinse mouth and seek medical attention. DO NOT INDUCE VOMITING unless

directed by a medical professional.

SPECIAL TREATMENT: None known

HEALTH HAZARDS: See Section 11

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Use media suitable for surrounding fire. No special media

required.

SPECIFIC FIRE HAZARDS: When heated to decomposition, this product will emit toxic

oxides and sulfides.

SPECIAL FIREFIGHTING PROCEDURES: Wear full protective clothing and positive-pressure self-

contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL / RELEASE PROCEDURES: Contain material and place in containers for use as intended, or discard

according to Federal, State and Local regulations.

ENVIRONMENTAL PRECAUTIONS: Prevent spilled material from entering storm drains or water bodies. If

material enters a waterway, notify the appropriate authorities.

PROTECTIVE EQUIPMENT: Wear PPE according to Section 8

SECTION 7: HANDLING AND STORAGE

Wash hands after handling material. Do not eat, drink or smoke while handling the material. Avoid breathing vapor/mists. Not intended for human consumption. Do not store with food or feedstuffs. Store in a cool, dry, well-ventilated area away from incompatible materials.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

The following constituents are the only constituents of the product, which have a PEL, TLV or other recommended exposure limit. Currently, the other constituents have no known exposure limits.

HAZARDOUS COMPONENT OSHA PEL ACGIH TLV

Liquid fertilizer blend Not available Not available

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

RESPIRATORY PROTECTION: NIOSH approved respirator, if required

EYE PROTECTION: Safety glasses with sideshields, goggles, or faceshield

SKIN PROTECTION: Appropriate for the task. Impervious and compatible with material

VENTILATION: Use with adequate ventilation

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Light blue, clear solution

 $\sim 8.00 - 9.00$ pH: **MELTING POINT:** Not applicable **BOILING POINT:** Not available FLASH POINT: Not flammable **EVAPORATION RATE:** Not available Not applicable FLAMMABLE LIMITS: Not available VAPOR PRESSURE: VAPOR DENSITY: Not available

SPECIFIC GRAVITY: 1.24
SOLUBILITY (IN WATER): Soluble
PARTITION COEFFICIENT: Not available
AUTOIGNITION TEMP: Not available
DECOMPOSITION TEMP: Not available
ODOR THRESHOLD: Not available
VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable.

CONDITIONS TO AVOID: Heat

INCOMPATIBILITY: Strong acids, bases and oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic oxides and sulfides.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Causes skin and respiratory irritation. Causes serious eye damage. Harmful if

swallowed.

INGREDIENT TOXICITY RANGES:

ORAL: > 926 mg/kg (zinc sulfate monohydrate) – 6,730 mg/kg (citric acid)

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DERMAL: > 2,000 mg/kg (zinc sulfate monohydrate)

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. Long-term degradation products may arise. Products of degradation are not expected to be hazardous.

SECTION 13: DISPOSAL CONSIDERATIONS

Use product for intended purpose where possible. Dispose of in accordance with all national, regional / state, and local regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION

SARA 311/312: ACUTE

SARA 313: Zinc Sulfate Monohydrate

CLEAN WATER ACT: Zinc Sulfate Monohydrate

REPORTABLE QUANTITY:

No requirements

RIGHT-TO-KNOW: No requirements

CA PROP 65: No requirements

SECTION 16: OTHER INFORMATION

NFPA RATINGS: HEALTH 2

FLAMMABILITY 0 INSTABILITY 0

HMIS RATINGS: HEALTH 2

FLAMMABILITY 0 INSTABILITY 0

PREPARED BY: DBA EHS Consulting

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