SECTION 1: IDENTIFICATION

Product Name: Ultra-Che® Zinc 9% EDTA
Product ID/Unity #: 1415435, 1415308
Common Name: Liquid zinc fertilizer
Chemical Description: Diammonium salt of Zinc EDTA
Recommended Uses: Fertilizer product – See product label for full directions for use.
Restrictions for Use: See product label for any potential restrictions on use.

Manufactured for:
WINFIELD SOLUTIONS, LLC
P. O. Box 64589
St. Paul, MN 55164-0589, USA

Initial Supplier:
WINFIELD UNITED CANADA, ULC
101-302 Wellman Lane
Saskatoon, Saskatchewan S7T-0J1, CAN
1-306-249-5112

MEDICAL EMERGENCY TELEPHONE NUMBER:
1-877-424-7452 (24hrs)

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear liquid with slight ammonia odor. Inhalation of large concentration of vapor or mist may cause respiratory tract irritation.

POTENTIAL HEALTH EFFECTS:
Eyes: May cause moderate but temporary eye irritation.
Skin: May cause mild skin irritation, including redness and itching.
Inhalation: Inhalation of large concentration of vapor or mist may cause respiratory tract irritation and discomfort.
Ingestion: May irritate or cause burns to digestive tract.
Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposures to vapor or mist.
Chronic Health Effects: None known

Carcinogenicity
NTP: Not listed
IARC: Not listed
OSHA: Not listed

CLASSIFICATION: Specific Target Organ Toxicant – Single Exposure Category 3

SIGNAL WORD: WARNING

HAZARD STATEMENTS:
May cause respiratory irritation.

Percent of product with unknown toxicity: 0%

PRECAUTIONARY STATEMENTS:
Prevention: Avoid breathing mist, spray or fumes. Use only outdoors in a well-ventilated area.
Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel unwell.
Storage: Store in a well-ventilated and secured place. Keep container tightly closed.
Disposal: Dispose of contents/container in accordance with Federal, provincial and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% (wt)</th>
<th>CAS Reg. #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diammonium salt of Zinc Ethylenediaminetetraacetic acid</td>
<td>54.0%</td>
<td>67859-51-2</td>
</tr>
<tr>
<td>Free ammonia</td>
<td>&lt;1.5%</td>
<td>7664-41-7</td>
</tr>
</tbody>
</table>

See Section 8 for exposure limits.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

Ingestion: Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Continued on next page
**Eyes:**
Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

**Skin:**
Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

### SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog, foam, dry chemical, carbon dioxide (CO2), water spray

**Special Fire Fighting Procedures:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

**Hazardous Combustion Products:** Thermal decomposition may include toxic ammonia gas, and/or toxic and hazardous oxides of zinc and nitrogen.

**Unusual Fire and Explosion Hazards:** Closed containers may explode from vapor expansion in high heat.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Environmental Precautions:** Do not allow spilled product to enter sewers or waterways.

**Methods for Containment:** Contain spilled product by diking area with sand or earth.

**Methods for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.

### SECTION 7: HANDLING AND STORAGE

**Handling:** Ensure adequate ventilation during handling and use. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

**Storage:** Store in a secured area away from children, feed and food products. Store in original container only and in a cool, well-ventilated dry place above the minimum storage temperature.

**Minimum Storage Temperature:** 0°C (32°F)

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>35 mg/m3 or 50 ppm 8 hour TWA</td>
<td>24 mg/m3 or 35 ppm 15 min. STEL</td>
<td>27 mg/m3 or 35 ppm 15 min. STEL</td>
</tr>
<tr>
<td>(CAS# 7664-41-7)</td>
<td></td>
<td>17 mg/m3 or 25 ppm 8 hour TWA</td>
<td>18 mg/m3 or 25 ppm 8 hour TWA</td>
</tr>
</tbody>
</table>

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed permissible levels or if a pre-existing respiratory condition exists, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapors.

**Engineering Controls:** Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELS or other specified exposure limits. Local exhaust ventilation is preferred.

**Protective Gloves:** Wear chemically protective gloves.

**Eye Protection:** Wear chemical goggles or safety glasses and full face shield. Contact lenses are not protective eye devices.

**Other Protective Clothing or Equipment:** Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.

**Work/Hygienic Practices:** Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
<th>Specific Gravity (H2O=1):</th>
<th>1.31 (typical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure (mm Hg):</td>
<td>Not determined</td>
<td>Freezing Point:</td>
<td>-19°C (-2°F)</td>
</tr>
<tr>
<td>Vapor Density (Air=1):</td>
<td>Not determined</td>
<td>Boiling Point/Range:</td>
<td>106°C (223°F)</td>
</tr>
<tr>
<td>Solubility in Water (wt %):</td>
<td>100%</td>
<td>pH:</td>
<td>7.0 – 7.8</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not determined</td>
<td>Flash Point:</td>
<td>Not combustible</td>
</tr>
<tr>
<td>Appearance and odor:</td>
<td>Clear liquid with slight ammonia odor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

Reactivity: Contact with strong oxidizers may result in a fire and explosion hazard.
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.
Possibility of Hazardous Reactions: Will not occur
Conditions to Avoid: Avoid excessive heat.
Incompatible Materials: Strong bases, acids and oxidizers.
Hazardous Decomposition Products: Thermal decomposition may include ammonia and toxic and hazardous oxides of zinc and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY
Eye Effects: Contact may cause moderate but temporary irritation. Additional effects may include tearing and/or blurred vision.
Skin Effects: Estimated LD50 = 3,704 mg/kg. Contact may cause temporary irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions.
Acute Inhalation Effects: Estimated LC50 is not determined.
Acute Oral Effects: Estimated LD50 > 7,000 mg/kg
Specific Target Organ Toxicity: Single, short-term exposure to ammonia vapors can cause respiratory tract irritation.

CHRONIC TOXICITY
Chronic Effects: None known
Carcinogenicity: None known
Mutagenicity: None known
Teratogenicity: None known
Reproductive Toxicity: None known

POTENTIAL HEALTH EFFECTS:
Eyes: May cause moderate but temporary eye irritation.
Skin: May cause mild skin irritation, including redness and itching.
Inhalation: Inhalation of large concentration of vapor or mist may cause respiratory tract irritation and discomfort.
Ingestion: May irritate or cause burns to digestive tract.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined
ECOTOXICITY DATA:
Fish Acute and Prolonged Toxicity: Not determined
Aquatic Invertebrate Acute Toxicity: Not determined
Aquatic Plant Toxicity: Not determined
Bird Acute and Prolonged Toxicity: Not determined
Honeybee Toxicity: Not determined
ENVIRONMENTAL EFFECTS:
Soil Absorption/Mobility: Not determined
Persistence and degradability: Not determined
Bioaccumulative Potential: Not determined
Other adverse effects: Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, provincial and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, provincial and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (U.S. Ground): Not Regulated
IMDG (Sea): Not determined
IATA (Air): Not determined
TDG (Canada): Not Regulated
Ultra-Che® Zinc 9% EDTA (CAN)

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA Inventory: All components are either listed or exempt from listing on the TSCA inventory.

Canadian Domestic Substances List: All components are either on the Non-domestic substances list or the domestic substances list.

SECTION 16: OTHER

<table>
<thead>
<tr>
<th>NFPA HAZARD RATING</th>
<th>Health</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flammability</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>4= Severe</td>
<td>3= High</td>
<td>2= Moderate</td>
</tr>
</tbody>
</table>

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Sections Revised: 1