

**Safety Data Sheet**

| NFPA HAZARD RATING |          |   |              | U.S. TRANSPORT SUMMARY |   |
|--------------------|----------|---|--------------|------------------------|---|
| 0                  | Least    |   |              |                        | Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information. |
| 1                  | Slight   | 1 | Health       |                        |   |
| 2                  | Moderate | 0 | Flammability |                        |   |
| 3                  | High     | 0 | Reactivity   |                        |   |
| 4                  | Severe   |   |              |                        |   |

| SECTION 1: IDENTIFICATION  |   |
|--|---|
| <b>Product Name:</b>   | Gainer High Gro 28-8-18   |
| <b>EPA Registration #:</b>   | Exempt  |
| <b>Product ID/Unity #:</b>   | 10135183  |
| <b>Common Name:</b>  | Soluble fertilizer mixture  |
| <b>Chemical Description:</b>   | Macro and micro nutrient soluble fertilizer   |
| <b>Recommended Uses:</b>   | Fertilizer product – See product label for full directions for use.   |
| <b>Restrictions for Use:</b>   | See product label for any potential restrictions on use.  |
| <b>Manufactured For:</b><br>WINFIELD SOLUTIONS, LLC<br>P. O. Box 64589<br>St. Paul, MN 55164-0589    | <b>MEDICAL EMERGENCY TELEPHONE NUMBER:</b> 1-877-424-7452 (24hrs)<br><br><b>Non-Emergency Business Inquiries:</b> 1-855-494-6343<br>Mon – Fri 8am – 5pm (Central Standard Time) |
| FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:<br>CHEMTREC 1-800-424-9300 (24 hours) |   |

| SECTION 2: HAZARDS IDENTIFICATION  |   |
|--|---|
| <b>EMERGENCY OVERVIEW:</b> Blue crystals. Causes moderate but temporary eye irritation.  |   |
| <b>POTENTIAL HEALTH EFFECTS:</b>   |   |
| <b>Eyes:</b> Causes moderate eye irritation.   |   |
| <b>Skin:</b> May cause mild skin irritation.   |   |
| <b>Inhalation:</b> May be harmful if inhaled.  |   |
| <b>Ingestion:</b> May cause gastric discomfort.  |   |
| <b>Preexisting Conditions:</b> Preexisting respiratory conditions may be aggravated by exposure to dust.                                 |   |
| <b>Chronic Health Effects:</b> Repeated or prolonged inhalation of potassium nitrate dust may affect the blood, respiration and kidneys. |   |
| <b>Carcinogenicity</b>   | NTP: Not listed                      IARC: Not listed                      OSHA: Not listed   |
| <b>OSHA HCS 2012 CLASSIFICATION:</b> Eye Irritation Category 2B  |   |
| <b>SIGNAL WORD:</b> WARNING  |   |
| <b>HAZARD STATEMENTS:</b><br>Causes eye irritation.  |   |
| <b>Percent of product with unknown toxicity:</b> 0.05%   |   |
| <b>PRECAUTIONARY STATEMENTS:</b>   |   |
| <b>Prevention:</b>   | Wash hands thoroughly after handling.   |
| <b>Response:</b>   | <b>If in eyes:</b> Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| <b>Storage:</b>  | See section 7 for storage information.  |
| <b>Disposal:</b>   | See section 13 for disposal information.  |

| SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS   |              |            |
|---|--------------|------------|
| Ingredient  | % (wt)       | CAS Reg. # |
| Urea  | 53.0 – 56.0% | 57-13-6    |
| Potassium nitrate   | 21.0 – 23.0% | 7757-79-1  |
| Monopotassium phosphate   | 15.0 – 16.0% | 7778-77-0  |
| Potassium sulfate   | 5.0 – 6.0%   | 7778-80-5  |
| Manganese EDTA  | <0.5%        | 15375-84-5 |
| Copper EDTA   | <0.4%        | 14025-15-1 |
| Zinc EDTA   | <0.4%        | 14025-21-9 |
| *Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(j). |              |            |
| 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. |
| 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          |   |
|--|---|
| <b>Suitable Extinguishing Media:</b>       | Chemical type foam, Carbon dioxide, Dry chemical, Water fog   |
| <b>Unsuitable Extinguishing Media:</b>     | Water jet   |
| <b>Special Fire Fighting Procedures:</b>   | 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. |
| <b>Hazardous Combustion Products:</b>      | Carbon oxides, Nitrogen oxides, Sulfur oxides, and some metallic oxides   |
| <b>Unusual Fire and Explosion Hazards:</b> | During a fire, irritating/toxic gases may be generated.   |

| SECTION 6: ACCIDENTAL RELEASE MEASURES |   |
|--|---|
| <b>Personal Precautions:</b>           | Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.  |
| <b>Environmental Precautions:</b>      | Keep spilled product and any rinse water from entering sewers or waterways.   |
| <b>Methods for Containment:</b>        | Contain spilled product by sweeping up if a small spill or by diking area with sand or earth if a large spill.  |
| <b>Methods for Clean-up:</b>           | Avoid dust formation. Vacuum, scoop or sweep up material and place in a container for disposal. If product is uncontaminated, spilled material may be applied at the rate recommended on the label. Never return spills to original containers for re-use. After removal of spilled product, flush contaminated area thoroughly with water. |
| <b>Other Information:</b>              | None known  |

| SECTION 7: HANDLING AND STORAGE     |  |
|-------------------------------------|--|
| <b>Handling:</b>                    | Avoid breathing dust. Use only outdoors or in a well-ventilated area. 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. |
| <b>Storage:</b>                     | Store in a cool, dry area away from children, feed and food products. Store away from incompatible materials. Protect packaging from physical damage. Protect from exposure to fire conditions.  |
| <b>Minimum Storage Temperature:</b> | Not applicable   |
| <b>Other Precautions:</b>           | Consult Federal, state and local laws and regulations pertaining to storage.   |

| SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION   |   |  |   |
|--|---|--|---|
| Exposure Guidelines Component:   | OSHA PEL  | ACGIH TLV  | NIOSH REL   |
| Manganese compounds (as Mn)  | 5 mg/m <sup>3</sup>   | 0.2 mg/m <sup>3</sup> (resp.)<br>0.1 mg/m <sup>3</sup> (IHL) | 1 mg/m <sup>3</sup> (TWA)<br>3 mg/m <sup>3</sup> (ST) |
| Copper compounds   | 1 mg/m <sup>3</sup>   | 1 mg/m <sup>3</sup>  | 1 mg/m <sup>3</sup>                                   |
| Particulates not otherwise classified  | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable) |  |   |
| <b>Respiratory Protection:</b> If dust concentration exceeds permissible levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.   |   |  |   |
| <b>Engineering Controls:</b> <b>Local Exhaust:</b> Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.  |   |  |   |
| <b>Protective Gloves:</b> Wear chemically protective gloves to prevent exposure to skin.<br><b>Eye Protection:</b> Wear chemical goggles or safety glasses and full face shield. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.<br><b>Other Protective Clothing or Equipment:</b> Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact. |   |  |   |
| <b>Work/Hygienic Practices:</b> 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 |                |   |                |
|---|----------------|---|----------------|
| <b>Physical State:</b>                      | Solid          | <b>Specific Gravity (H<sub>2</sub>O=1):</b> | Not determined |
| <b>Vapor Pressure (mm Hg):</b>              | Not applicable | <b>Density (lbs/gallon):</b>                | Not applicable |
| <b>Vapor Density (Air=1):</b>               | Not applicable | <b>Melting Point/Freezing Point:</b>        | Not determined |
| <b>Solubility in Water (wt %):</b>          | Not determined | <b>Boiling Point/Range:</b>                 | Not determined |
| <b>Viscosity:</b>                           | Not applicable | <b>pH (1% solution):</b>                    | Not determined |
| <b>Appearance and odor:</b>                 | Blue crystals  | <b>Flash Point:</b>                         | Not applicable |

| SECTION 10: STABILITY AND REACTIVITY   |  |
|--|--|
| <b>Reactivity:</b> None known  |  |
| <b>Chemical Stability:</b> Product is stable at ambient temperature and pressure, under normal storage and handling conditions.  |  |
| <b>Possibility of Hazardous Reactions:</b> Will not occur  |  |
| <b>Conditions to Avoid:</b> Excessive heat, dust generation and damp areas   |  |
| <b>Incompatible Materials:</b> Oxidizing agents, strong acids and bases.   |  |
| <b>Hazardous Decomposition Products:</b> When exposed to excessive heat, Carbon oxides, Nitrogen oxides, Sulfur oxides, some metallic oxides, and ammonia may be formed. |  |

| SECTION 11: TOXICOLOGICAL INFORMATION  |  |
|--|--|
| <b>ACUTE TOXICITY</b>                  |  |
| <b>Eye Effects:</b>                    | Based on component data, mild to moderate eye irritation is anticipated.   |
| <b>Skin Effects:</b>                   | Based on component data, only mild skin irritation is anticipated. Estimated LD50 >5,000 mg/kg.  |
| <b>Acute Inhalation Effects:</b>       | Based on component data, the product is not anticipated to be acutely toxic via inhalation.  |
| <b>Acute Oral Effects:</b>             | Estimated LD50 >6,000 mg/kg  |
| <b>Specific Target Organ Toxicity:</b> | None known   |
| <b>CHRONIC TOXICITY</b>                |  |
| <b>Chronic Effects:</b>                | Repeated or prolonged exposure may affect the blood, respiration and kidneys and produce anemia, Methenoglobinemia with attendant cyanosis and anoxia, hyperpnea and later dyspnea, and nephritis. |
| <b>Carcinogenicity:</b>                | No component is anticipated to have carcinogenic effects.  |
| <b>Mutagenicity:</b>                   | No component is anticipated to have mutagenic effects.   |

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**Teratogenicity:** No component is anticipated to have teratogenic effects.  
**Reproductive Toxicity:** No component is anticipated to have effects on the reproductive system.  
**POTENTIAL HEALTH EFFECTS:**  
**Eyes:** Causes moderate eye irritation.  
**Skin:** May cause mild skin irritation.  
**Inhalation:** May be harmful if inhaled.  
**Ingestion:** May cause gastric discomfort.

**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, state and local laws and regulations.  
**Container:** Ensure all product has been emptied from the sack/bag. Dispose of emptied container in accordance with applicable Federal, state and local laws and regulations.  
**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORT INFORMATION**

**DOT:** This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.  
**(Ground)**  
**IMDG:** Not determined  
**(Sea)**  
**IATA:** Not determined  
**(Air)**  
**TDG:** Not determined  
**(Canada)**

**SECTION 15: REGULATORY INFORMATION**

**TSCA Inventory:** All components are listed on the TSCA inventory.  
**SARA Title III Information:**  
**Section 302 - Extremely hazardous substances:** None listed  
**Section 311/312 - Hazard Categories:** Immediate (Acute); Delayed (Chronic)  
**Section 313 -** The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:  
 Copper compounds (<0.4%); Manganese compounds (<0.5%); Zinc compounds (<0.4%)  
**CERCLA -** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):  
 Copper compounds, Manganese compounds and Zinc compounds are considered to be CERCLA hazardous substances though no RQ is established.

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## Gainer High Gro 28-8-18

**California Proposition 65: WARNING:** This product contains chemicals known to the state of California to cause cancer and/or reproductive harm.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

| Chemical Name                        | CAS #      | State(s)       |
|--------------------------------------|------------|----------------|
| Potassium nitrate                    | 7757-79-1  | CT, MA, PA, RI |
| Copper EDTA (copper compounds)       | 14025-15-1 | NJ, PA         |
| Manganese EDTA (manganese compounds) | 15375-84-5 | IL, MN, NJ, RI |
| Zinc EDTA (zinc compounds)           | 14025-21-9 | IL, NJ         |
| Urea                                 | 57-13-6    | MN             |

**Canadian Domestic Substances List:** Not determined.

**WHMIS Classification:** This product is not approved for use in Canada. WHMIS classification is not determined.

### SECTION 16: OTHER

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor 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. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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**Sections Revised:** updated to WU