


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	2	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.

SECTION 1: IDENTIFICATION	
<b>Product Name:</b>	Gainer NEU II 17-22-22
<b>EPA Registration #:</b>	Exempt
<b>Product ID/Unity #:</b>	10015724, 10125569
<b>Common Name:</b>	Water soluble fertilizer compound
<b>Chemical Description:</b>	Water soluble fertilizer compound
<b>Recommended Uses:</b>	Fertilizer product – See product label for directions for use.
<b>Restrictions for Use:</b>	See product label for any potential restrictions.
<b>Manufactured For:</b> WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	<b>MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)</b>  <b>Non-Emergency Business Inquiries: 1-855-494-6343</b> Mon – Fri 8am – 5pm (Central Standard Time)
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)</b>	

SECTION 2: HAZARDS IDENTIFICATION	
<b>EMERGENCY OVERVIEW:</b> Green-blue crystals with fertilizer like odor. Inhalation of dust may cause irritation of the upper respiratory tract. May cause eye irritation.	
<b>POTENTIAL HEALTH EFFECTS:</b>	
<b>Eyes:</b> Exposure to dust may cause eye irritation.	
<b>Skin:</b> Contact may cause brief irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions.	
<b>Inhalation:</b> Inhalation of dust may cause irritation of the upper respiratory tract.	
<b>Ingestion:</b> Ingestion of small quantities is not expected to have toxic effects. Ingestion of larger quantities may be harmful.	
<b>Preexisting Conditions:</b> Preexisting respiratory conditions may be aggravated by exposure to dusts.	
<b>Chronic Health Effects:</b> None known	
<b>Carcinogenicity</b>	NTP: Not listed                      IARC: Not listed                      OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> Eye Irritation Category 2B; Acute Inhalation Category 4	
<b>SIGNAL WORD:</b> WARNING	
<b>HAZARD STATEMENTS:</b> Causes eye irritation. Harmful if inhaled.	
<b>Percent of product with unknown toxicity:</b> 0.05%	
<b>PRECAUTIONARY STATEMENTS:</b>	
<b>Prevention:</b>	Wash hands thoroughly after handling. Avoid breathing dust. Use only outdoors or in a well-ventilated area.
<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. <b>If eye irritation persists:</b> Get medical attention. <b>If inhaled:</b> 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.

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**Storage:** See Section 7 for storage information.  
**Disposal:** See Section 13 for disposal information.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Potassium nitrate	24.0 – 25.0%	7757-79-1
Monoammonium phosphate	23.0 – 24.0%	7722-76-1
Potassium chloride	17.5 – 19.0%	7447-40-7
Urea	15.0 – 17.0%	57-13-6
Diammonium phosphate	14.5 – 15.5%	7783-28-0
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 are considered to be confidential business information under 29 CFR 1910.1200(j).		
See Section 8 for exposure limits.		

### SECTION 4: FIRST AID MEASURES

<b>Inhalation:</b>	Remove person from contaminated area to fresh air and assist breathing as needed. See medical attention if irritation occurs.
<b>Ingestion:</b>	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.
<b>Eyes:</b>	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 eye irritation persists.
<b>Skin:</b>	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if skin irritation persists.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b> Chemical type foam, Carbon dioxide, dry chemical powder, water spray or 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> Ammonia, chlorine gas, carbon oxides, nitrogen oxides, sulfur oxides, acetic acid
<b>Unusual Fire and Explosion Hazards:</b> Exposure to high temperatures may release the compounds listed above.

### 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**

**Handling:** 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.

**Storage:** 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.

**Minimum Storage Temperature:** Not applicable

**Other Precautions:** 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
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) 5 mg/m <sup>3</sup> (respirable)		

**Respiratory Protection:** If dust concentration exceeds permissible levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for use against general particulates.

**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:** While not expected to cause skin irritation with short-term exposure, wear chemically protective gloves to prevent repeated exposure to skin.

**Eye Protection:** Wear chemical goggles or safety glasses and full face shield. Contact lenses are not eye protective devices. An eyewash or water supply should be readily accessible to the work area.

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

<b>Physical State:</b>	Solid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	Not determined
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	Not applicable
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	Not determined
<b>Solubility in Water (wt %):</b>	10-15 grams in 100 ml	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not applicable	<b>pH:</b>	Not determined
<b>Appearance and odor:</b>	Fine granular or powder, green-blue crystals with fertilizer like odor.	<b>Flash Point:</b>	Not determined

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known

**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:** Excessive heat and damp areas

**Incompatible Materials:** Strong acids and bases

**Hazardous Decomposition Products:** When exposed to excessive heat, ammonia, chlorine gas, carbon oxides, nitrogen oxides, sulfur oxides, and acetic acid may be formed.

**SECTION 11: TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

<b>Eye Effects:</b>	Exposure to dust may cause eye irritation.
<b>Skin Effects:</b>	Estimated LD50 of mixture > 100 g/kg; Not anticipated to cause skin irritation with short term exposure; Prolonged or repeated exposure may cause mild skin irritation.
<b>Acute Inhalation Effects:</b>	Exposure to dust may cause irritation of the upper respiratory tract.
<b>Acute Oral Effects:</b>	Estimated LD50 of mixture = 2,577 mg/kg
<b>Specific Target Organ Toxicity:</b>	None known

**CHRONIC TOXICITY**

<b>Chronic Effects:</b>	None known
<b>Carcinogenicity:</b>	No components are anticipated to have carcinogenic effects.
<b>Mutagenicity:</b>	No components are anticipated to have mutagenic effects.
<b>Teratogenicity:</b>	No components are anticipated to have teratogenic effects.
<b>Reproductive Toxicity:</b>	No components are anticipated to have effects on the reproductive system.

**POTENTIAL HEALTH EFFECTS:**

<b>Eyes:</b>	Exposure to dust may cause eye irritation.
<b>Skin:</b>	Contact may cause brief irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions.
<b>Inhalation:</b>	Inhalation of dust may cause irritation of the upper respiratory tract.
<b>Ingestion:</b>	Ingestion of small quantities is not expected to have toxic effects. Ingestion of larger quantities may be harmful.

**SECTION 12: ECOLOGICAL INFORMATION****ENVIRONMENTAL SUMMARY:** Not determined**ECOTOXICITY DATA:**

<b>Fish Acute and Prolonged Toxicity:</b>	Not determined
<b>Aquatic Invertebrate Acute Toxicity:</b>	Not determined
<b>Aquatic Plant Toxicity:</b>	Not determined
<b>Bird Acute and Prolonged Toxicity:</b>	Not determined
<b>Honeybee Toxicity:</b>	Not determined

**ENVIRONMENTAL EFFECTS:**

<b>Soil Absorption/Mobility:</b>	Not determined
<b>Persistence and degradability:</b>	Not determined
<b>Bioaccumulative Potential:</b>	Not determined
<b>Other adverse effects:</b>	Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Waste:</b>	Dispose of in accordance with applicable Federal, state and local laws and regulations.
<b>Container:</b>	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.
<b>RCRA Characteristics:</b>	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**

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

**SECTION 15: REGULATORY INFORMATION**

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

**SARA Title III Information:**

**Section 302 - Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** Acute

**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 all considered to be CERCLA hazardous substances though no RQ is established.

**California Proposition 65: WARNING:** This product contains a chemical known to the State of California to cause cancer.

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

Chemical Name	CAS #	State(s)
Urea	57-13-6	MN
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

**Canadian Domestic Substances List:** All components are listed on the Canadian DSL.

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

**SECTION 16: OTHER**

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**Revision Date:** July 9, 2013

**Supersedes document dated:** September 23, 2005

**Sections Revised:** All