


Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				See Section 14 for full information.
1	Slight	2	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe	OX	Oxidizer		

SECTION 1: IDENTIFICATION	
Product Name: Gainer® 10-16-38 EPA Registration #: Exempt Common Name: Soluble fertilizer mixture Chemical Description: Macro and micro nutrient soluble fertilizer 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	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Dark blue granules with fertilizer like odor. Harmful if swallowed. Oxidizer. Contact with combustible material will not cause spontaneous ignition. However, substance will enhance an existing fire.	
POTENTIAL HEALTH EFFECTS: Eyes: May cause mild mechanical eye irritation. Skin: May cause mild skin irritation. Inhalation: Harmful if inhaled. Repeated or prolonged inhalation of dust may affect the blood, respiration and kidneys and produce anemia Ingestion: May cause gastric discomfort. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to dust. Chronic Health Effects: Repeated or prolonged inhalation of dust may affect the blood, respiration and kidneys and produce anemia	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Acute Oral Toxicity Category 4; Specific Target Organ Toxicity–Repeated Exposure Category 2; Oxidizer Category 3	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure by ingestion or inhalation. May intensify fire; oxidizer	
Percent of product with unknown toxicity: 0.05%	


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PRECAUTIONARY STATEMENTS:

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust. Keep away from heat. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustible materials. Wear protective gloves, eye protection and face protection (See Section 8).

Response: **If Swallowed:** Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Rinse mouth. **In case of fire:** Use chemical type foam, carbon dioxide, dry chemical, water fog or spray to extinguish. Get medical attention if you feel unwell.

Storage: See Section 7 for storage information.

Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Potassium nitrate	65.0 – 69.0%	7757-79-1
Potassium phosphate	19.0 – 22.0%	7778-77-0
Monoammonium phosphate	5.0 – 10.0%	7722-76-1
Zinc EDTA	<1.5%	14025-21-9
Manganese EDTA	<0.5%	15375-84-5
Copper EDTA	<0.4%	14025-15-1
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).		
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 immediately 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

Suitable Extinguishing Media: Chemical type foam, Carbon dioxide, Dry chemical, Water fog or spray

Unsuitable Extinguishing Media: Water jet

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: Carbon oxides, Sulfur oxides, Nitrogen oxides, Ammonia and some metallic oxides

Unusual Fire and Explosion Hazards: This is an oxidizer when combined with a fuel and ignition source it has the potential to release a large amount of oxygen accelerating the flame to the point of explosion. Smothering the fire with steam or material is ineffective as oxygen is produced by the decomposition. During a fire, irritating/toxic gases may be generated.

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: Keep spilled product and any rinse water from entering sewers or waterways.

Methods for Containment: Contain spilled product by sweeping up if a small spill or by diking area with sand or earth if a large spill.

Methods for Clean-up: Avoid dust formation. 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. Remove sources heat and ignition. Restrict access to spill site. Any spillage should be contained and recovered. Do not allow to mix with sawdust and other combustible organic substances.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: Avoid excessive generation of dust. Avoid contamination by combustible (e.g., diesel oil, grease, etc.) and incompatible materials, which may cause fires. Avoid unnecessary exposure to the atmosphere to prevent moisture pick up, which makes the material difficult to handle. Do not mix with mineral acids, chlorine, oxidizing agents, alkalis, diesel, oils and greases. 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 ³	1 mg/m ³	1 mg/m ³
Manganese inorganic compounds	5 mg/m ³ CEIL	0.2 mg/m ³ TWA	1 mg/m ³ TWA 3 mg/m ³ ST
Particulates not otherwise classified	15 mg/m ³ (total dust) 5 mg/m ³ (respirable)		

Respiratory Protection: If dust concentration exceeds permissible levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for 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: Wear chemically protective gloves to prevent exposure to skin.

Eye Protection: 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 available to the work area.

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

Physical State:	Solid	Specific Gravity (H₂O=1):	<1.0
Vapor Pressure (mm Hg):	Not applicable	Density (lbs/gallon):	Not applicable
Vapor Density (Air=1):	Not applicable	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Not determined	Boiling Point/Range:	Not determined
Viscosity:	Not applicable	pH (1% solution):	Not determined
Appearance and odor:	Dark blue granules with fertilizer like odor.	Flash Point:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Product is an oxidizer.

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, dust generation and damp areas

Incompatible Materials: Strong acids and bases.

Hazardous Decomposition Products: When exposed to excessive heat, Carbon oxides, Sulfur oxides, Nitrogen oxides, Ammonia and some metallic oxides may be formed.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Eye Effects: Exposure to dust may cause mild but reversible eye irritation.

Skin Effects: Mild skin irritation is possible. Estimated LD50 >5,500 mg/kg

Acute Inhalation Effects: Short term inhalation is not expected to cause more than mild irritation of the respiratory tract and/or mucous membranes.

Acute Oral Effects: Estimated LD50 = 1,957 mg/kg

Specific Target Organ Toxicity: Repeated or prolonged exposure to small amounts may affect the blood, respiration and kidneys and produce anemia, Methenoglobinemia with attendant cyanosis and anoxia, hyperpnea and later dyspnea, and nephritis.

CHRONIC TOXICITY

Chronic Effects: None known

Carcinogenicity: No component is anticipated to have carcinogenic effects.

Mutagenicity: No component is anticipated to have mutagenic effects.

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: May cause mild mechanical eye irritation.

Skin: May cause mild skin irritation.

Inhalation: Harmful if inhaled. Repeated or prolonged inhalation of dust may affect the blood, respiration and kidneys and produce anemia

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: (Ground)	This product is regulated by the U.S. Department of Transportation as a hazardous material for ground shipment. UN1477, Nitrates, inorganic, n.o.s., 5.1, PG III
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	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 listed

Section 311/312 – Hazard Categories: Immediate (Acute), Chronic (Delayed); Fire

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 (<0.4%); Zinc compounds (<1.1%)

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 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

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

WHMIS Classification: 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 name to registered