WINFIELD UNITED

Gainer® High Yield 15-20-20

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	**2**	**Health**	
2	Moderate	**0**	**Flammability**	
3	High	**0**	**Reactivity**	
4	Severe			

SECTION 1: IDENTIFICATION

Product Name: Gainer® High Yield 15-20-20
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. Causes eye irritation.

POTENTIAL HEALTH EFFECTS:
Eyes: Causes moderate but temporary eye irritation.
Skin: May cause mild skin irritation including redness and itching.
Inhalation: May cause mild respiratory irritation and coughing.
Ingestion: May be harmful if swallowed.
Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to dust.
Chronic Health Effects: Repeated or prolonged inhalation of potassium nitrate dust may affect the blood, respiration, and kidneys.

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

OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 2A

SIGNAL WORD: WARNING

HAZARD STATEMENTS:
Causes serious eye irritation.

Percent of product with unknown toxicity: 0.05%

PRECAUTIONARY STATEMENTS:
Prevention: Wash hands thoroughly after handling. Wear eye protection and face protection (See Section 8).
Response: **If in eyes:** 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.
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	42.0 – 45.0%	7757-79-1
Monoammonium phosphate	32.0 – 34.0%	7722-76-1
Urea	8.0 – 9.0%	57-13-6
Ammonium sulfate	5.0 – 7.0%	7783-20-2
Citric acid	2.0 – 4.0%	77-92-9
Zinc sulfate monohydrate	3.0%	7446-19-7
Copper sulfate pentahydrate	<1.0%	7758-99-8
Manganese sulfate monohydrate	<0.4%	10034-96-5

*Ingredients not specifically listed are non-hazardous and/or 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: 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: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains Copper sulfate with a reportable quantity (RQ) of 10 lbs. and Zinc sulfate with a reportable quantity (RQ) of 1,000 lbs. See Section 15 for additional information.

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/m3	1 mg/m3	1 mg/m3
Manganese inorganic compounds	5 mg/m3 CEIL	0.2 mg/m3 TWA	1 mg/m3 TWA 3 mg/m3 ST
Particulates not otherwise classified	15 mg/m3 (total dust) 5 mg/m3 (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 (H_2O=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: 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, 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:	Based upon component data, moderate but temporary eye irritation is anticipated.
Skin Effects:	Based upon component data, only mild skin irritation is anticipated.
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 = 2,178 mg/kg
Specific Target Organ Toxicity:	None known

CHRONIC TOXICITY

Chronic Effects:	Repeated or prolonged exposure to small amounts of potassium nitrate may affect the blood, lungs and kidneys and produce anemia, Methenoglobinemia with attendant cyanosis and anoxia, hyperpnea and later dyspnea, and nephritis.
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: Causes moderate but temporary eye irritation.
Skin: May cause mild skin irritation including redness and itching.
Inhalation: May cause mild respiratory irritation and coughing.
Ingestion: May be harmful if swallowed.

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 not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.
IMDG: (Sea)	Not determined.
IATA: (Air)	Not determined.
TDG: (Canada)	Note 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)
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 sulfate (<1.0%) Manganese compounds (<0.4%); Zinc compounds (3.0%)

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Copper sulfate has an RQ of 10 lbs which is reached with 1,667 lbs of product.
Manganese compounds are considered to be CERCLA hazardous substances though no RQ is established.
Zinc sulfate has an RQ of 1,000 lbs which is not reached with any practical quantity of product.

California Proposition 65: This product does not contain 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
Ammonium sulfate	7783-20-2	MA, NJ, PA, RI
Copper sulfate (copper compounds)	7758-99-8	NJ, PA
Manganese sulfate	10034-96-5	MN, NJ, RI
Zinc sulfate (zinc compounds)	7446-19-7	MA, NJ, PA
Urea	57-13-6	MN

Canadian Domestic Substances List: Not determined

WHMIS Classification: D2B, C

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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