

# Gainer High Yield 15-20-20

#### NFPA HAZARD RATING

## U.S. TRANSPORT SUMMARY

0	Least		
1	Slight	2	Health
2	Moderate	0	Flammability
3	High	0	Reactivity
4	Severe	ОХ	Oxidizer



See Section 14 for full information.

**SECTION 1: IDENTIFICATION** 

Product Name: Gainer High Yield 15-20-20

**EPA Registration #**: Exempt

Product ID/Unity #: 10015719, 10136329 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:

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

WINFIELD SOLUTIONS, LLC

P. O. Box 64589 Non-Emergency Business Inquiries: 1-855-494-6343 St. Paul, MN 55164-0589 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. Oxidizer. Contact with combustible material will not cause spontaneous ignition. However, substance will enhance an existing fire.

#### 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; Oxidizer Category 3

SIGNAL WORD: WARNING

**HAZARD STATEMENTS:** 

Causes serious eye irritation. May intensify fire; oxidizer.





Percent of product with unknown toxicity: 0.05%

PRECAUTIONARY STATEMENTS:

**Prevention:** Wash hands thoroughly after handling. 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,

eve protection and face protection (See Section 8).

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**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. In case of fire: Use chemical type foam,

carbon dioxide, dry chemical, water fog or spray to extinguish.

**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		MFASHRES
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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 iet

**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: 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.

especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 8: EX	XPOSURE CONTROLS/PI	ERSONAL PROTEC	TION	
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 concer cartridges/canisters approved for general		wear NIOSH approved air-p	ourifying respirator with	
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 p	rotective gloves to prevent exposure	e 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 v	vork area.		
Other Protective Clothing or Equipme	ent: Wear long-sleeve shirt, long pa	ants 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,				

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid Specific Gravity ( $H_2O=1$ ): <1.0

Vapor Pressure (mm Hg): Density (lbs/gallon): Not applicable Not applicable Not applicable Vapor Density (Air=1): 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 Flash Point: Not applicable

fertilizer like odor.

#### 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: 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:

Aquatic Invertebrate Acute Toxicity:

Aquatic Plant Toxicity:

Bird Acute and Prolonged Toxicity:

Honeybee Toxicity:

Not determined
Not determined
Not determined
Not determined

**ENVIRONMENTAL EFFECTS:** 

Soil Absorption/Mobility:
Persistence and degradability:
Bioaccumulative Potential:
Other adverse effects:
Not determined
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 regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.
(Ground)	UN1477, Nitrates, inorganic, n.o.s., 5.1, PG III
IMDG:	This product is regulated by IMDG as a hazardous material for shipment by sea.
(Sea)	UN1477, Nitrates, inorganic, n.o.s., 5.1, PG III
IATA:	This product is regulated by IATA as a hazardous material for shipment by air.
(Air)	UN1477, Nitrates, inorganic, n.o.s., 5.1, PG III
TDG:	This product is regulated by Transport Canada as a hazardous material for shipment.
(Canada)	UN1477, Nitrates, inorganic, n.o.s., 5.1, PG III

#### **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), 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 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**

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Sections Revised: All