


Safety Data Sheet

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

SECTION 1: IDENTIFICATION

Product Name:	Andersons Golf Products 28-5-18		
EPA Registration #:	Exempt		
Product ID/Unity #:	AGC84528		
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: The Andersons Lawn Fertilizer Division, Inc. P.O. Box 119 Maumee, OH 43537 www.andersonspro.com		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. Harmful if inhaled.			
POTENTIAL HEALTH EFFECTS:			
Eyes: Causes moderate but reversible eye irritation.			
Skin: May cause mild skin irritation.			
Inhalation: Harmful if inhaled. Repeated or prolonged inhalation of dust may lead to depression of the respiratory system.			
Ingestion: May cause gastric discomfort.			
Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to dust.			
Restrictions for Use: None known			
Carcinogenicity	NTP: Not listed	IARC: Not listed	OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Acute Inhalation Toxicity Category 4; Eye Irritation Category 2B			
SIGNAL WORD: WARNING			
HAZARD STATEMENTS:			
Harmful in inhaled.			
Causes eye irritation.			
Percent of product with unknown toxicity: 0.05%			
PRECAUTIONARY STATEMENTS:			
Prevention: Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.			
Response: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor for treatment advice if you feel unwell. 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: See Section 13 for disposal information.			

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Potassium nitrate	38.0 - 42.0%	7757-79-1
Monoammonium phosphate	7.0 - 11.0%	7722-76-1
Urea	47.0 - 51.0%	57-13-6
Manganese EDTA	<0.5%	15375-84-5
Copper EDTA	<0.5%	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(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 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
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, some metallic oxides, Ammonia
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. 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 container for re-use. After removal of spilled product, flush contaminated area thoroughly with water.
Other Information:	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 ³	1 mg/m ³	1 mg/m ³
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 %):	100%	Boiling Point/Range:	Not determined
Viscosity:	Not applicable	pH (1% solution):	4.7
Appearance and odor:	White/Light 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 & handling conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Excessive heat, dust generation and damp areas

Incompatible Materials: Oxidizing agents, strong acids and bases.

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

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Eye Effects: Exposure to dust is expected to cause moderate but reversible eye irritation.

Skin Effects: Mild skin irritation is possible. Estimated LD₅₀>9 g/kg.

Acute Inhalation Effect: Harmful if inhaled. Repeated or prolonged inhalation of dust may lead to depression of the respiratory system.

Acute Oral Effects: Estimated LD₅₀ = 2,513 mg/kg

Specific Target Organ: None known

Toxicity:

CHRONIC TOXICITY

Chronic Effects: None known

Carcinogenicity: No component is anticipated to have carcinogenic effects.

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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 reversible eye irritation.

Skin: May cause mild skin irritation.

Inhalation: Harmful if inhaled. Repeated or prolonged inhalation of dust may lead to depression of the respiratory system.

Ingestion: May cause gastric discomfort.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined

ECOTOXICITY DATA:	Not determined
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)	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)

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 (<0.5%); 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.

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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
Urea	57-13-6	MN
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: D2B