


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: Zinc 10% LS EPA Registration #: Exempt Product ID/Unity #: 10000649, 10000650, 10136187 Common Name: Granular zinc fertilizer Chemical Description: Zinc lignosulfonate Recommended Uses: Fertilizer product – See product label for full directions for use. Restrictions for Use: See product label for any potential restrictions on use.	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION			
EMERGENCY OVERVIEW: Dark brown granules with no noticeable odor. Causes moderate but temporary eye irritation.			
POTENTIAL HEALTH EFFECTS:			
Eyes: Causes moderate but temporary eye irritation which may include redness and itching.			
Skin: May cause mild skin irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis or other skin reactions.			
Inhalation: Inhalation of dust may cause mild irritation of the upper respiratory tract.			
Ingestion: May cause upset of the gastric system.			
Preexisting Conditions: None known			
Chronic Health Effects: None known			
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: 2.7%			
PRECAUTIONARY STATEMENTS:			
Prevention:	Wash hands thoroughly after handling. Wear eye and face protection.		
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:	See Section 13 for disposal information.		

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Zinc lignosulfonate	0 – 25.0%	57866-49-6
Zinc humate	0 – 23.0%	Not available
Ammonium sulfate	9.0 – 11.0%	7783-20-2
*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	
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:	Water fog, foam, dry chemical, carbon dioxide (CO ₂), water spray
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:	Oxides of sulfur and other toxic gases such as ammonia may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.
Unusual Fire and Explosion Hazards:	None known

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:	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.
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
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 determined	Bulk Density:	53 lbs/ft ³
Vapor Density (Air=1):	Not applicable	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	54%	Boiling Point/Range:	Not determined
Viscosity:	Not applicable	pH:	Not determined
Appearance and odor:	Dark brown granules with no noticeable odor	Flash Point:	Non-combustible

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: Avoid excessive heat and/or damp areas.	
Incompatible Materials: Strong acids and bases	
Hazardous Decomposition Products: Oxides of sulfur and other toxic gases such as ammonia may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.	

SECTION 11: TOXICOLOGICAL INFORMATION	
ACUTE TOXICITY	
Eye Effects:	Causes moderate but temporary eye irritation.
Skin Effects:	Estimated LD50 >2,000 mg/kg; Prolonged contact may cause mild skin irritation.
Acute Inhalation Effects:	Estimated LC50 is not available, however based upon component data it is unlikely that this product is toxic by inhalation.
Acute Oral Effects:	Estimated LD50 >6,000 mg/kg
Specific Target Organ Toxicity:	
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.
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POTENTIAL HEALTH EFFECTS:	

Eyes: Causes moderate but temporary eye irritation which may include redness and itching.
Skin: May cause mild skin irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis or other skin reactions.
Inhalation: Inhalation of dust may cause mild irritation of the upper respiratory tract.
Ingestion: May cause upset of the gastric system.

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

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are listed or are exempt from listing 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:
 Zinc compounds (<26.0%)
CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):
 Zinc compounds are considered to be CERCLA hazardous substances though no RQ is established.
California Proposition 65: This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

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

Zinc 10% LS

Chemical Name Ammonium sulfate	CAS # 7783-20-2	State(s) MA, NJ, PA, RI
Canadian Domestic Substances List: Not determined		
WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is 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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