



Safety Data Sheet

Product and Manufacturer Information

Name: 7-18-6-2S-0.5Zn Agricultural Fertilizer

Synonyms: 1-3-1 Ag Fertilizer, Ag Fert. w/ micronutrient, etc

Recommended Use: Agricultural Fertilizer

Manufacturer: Morral Companies, LLC; P.O. Box 26, Morral OH 43337. Phone: 740-465-3251

For Transportation Emergencies call Chemtrec at 800-424-9300

For Other Emergencies call 911 and/or Appropriate Regulatory Agencies

Hazard Identification

GHS Classification: none

This material does not present any unusual hazards under ordinary conditions. Use general precautions when handling, transporting, and storing this material.

Composition / Information on Ingredients

Component	CAS #	% by weight
Ammonium Polyphosphate	14728-39-3	42
Phosphoric Acid	7664-38-2	7
Potassium Chloride	7447-40-7	10
Zinc Chloride Solution	7646-85-7	2.5
Ammonium Thiosulfate	10103-43-2	3

This material is a mixture of the above ingredients with water and other non-hazardous components.

First Aid Measures

Skin Contact: The material may be especially irritating to cuts, abrasions, and open wounds. If exposure occurs, rinse the affected area thoroughly with water. Treat other irritated areas by washing with soap and water.

Eye Contact: Minor irritation is likely if exposure occurs. Rinse eyes thoroughly with water for 15 minutes. Remove contacts if necessary. Seek medical attention if irritation persists.

Respiration: Remove to fresh air and seek medical attention. Inhalation of any liquid or mist may result in breathing difficulty.

Ingestion: Swallowing large amounts may result in vomiting, diarrhea, cramps, and other gastrointestinal disturbances. Dilute stomach contents with water. Seek medical attention.

Fire Fighting Measures

Flash point: does not apply

Extinguishing Materials: All standard agents are acceptable.

Special Hazards and Precautions: Ammonia, Hydrogen Sulfide, Oxides of Nitrogen and Sulfur, and Chlorine gases may be evolved at elevated temperatures.

Accidental Release Measures



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Do not allow to enter drains waterways, etc. Contain large spills by diking with soil or other material. Small spills may be covered with an absorbent material. Do not dilute with water or use water to flush material to another location. For uncontrolled or major releases, response by trained personnel using preplanned procedures is recommended. Refer to Exposure Controls / Personal protection to determine proper PPE. Consult applicable regulatory agencies for spill reporting and disposal.

Handling and Storage

Standard conditions are generally acceptable. Long term storage may result in settling of solids and/or formation of crystals. Avoid storage or transfer using copper bearing, zinc-clad, or aluminum vessels or equipment.

Exposure Controls / Personal Protection

Skin exposure should be kept minimal by wearing gloves, long pants, and long sleeved shirts. If splashing may occur, wear protective goggles. Ingestion and respiration of the material are unusual occurrences under typical conditions of use.

Physical and Chemical Properties

Appearance: clear, pale to deep green liquid

Odor: none to slight ammonia

pH: neutral

Freezing Point: ~32F

Boiling Point: ~212F

Solubility in Water: complete

Density: 1.32g/ml

Stability and Reactivity

This product is stable under normal use and storage conditions. There may be some settling of solids if the material is stored for long periods. This product is not a reactivity or polymerization hazard.

Avoid Zinc or Copper bearing alloys, and Aluminum storage vessels. At elevated temperatures or when mixed with an alkaline material, ammonia will be released. Oxides of Nitrogen and Phosphorous may also be released at elevated temperatures.

Toxicological Information

This material is not known to be a toxicity hazard to animals or humans.

Ecological Information

Zinc poses a hazard level for fish at a concentration of 0.1ppm. Atlantic Salmon, Carp, Rainbow Trout and Goldfish have exhibited an avoidance reaction to Zinc in water.

Disposal Considerations

This product is not defined as a hazardous waste by the U.S.E.P.A. Dispose of this product as recommended by federal, state, and local regulations.



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Transport Information

This product is regulated as a hazardous material by the U.S.D.O.T. when shipped in a single vessel in volumes greater than 5812 gallons.

Proper Shipping Name: Environmentally Hazardous Substances, liquid n.o.s. (contains Zinc Chloride and Ammonia), class 9, UN3082, PGIII, RQ (63931 Lbs)

RQ's above based on Zinc Chloride RQ of 1000lbs.

Regulatory Information

SARA Title III Hazard Class: acute

CERCLA Reportable Quantity: 1000lbs for Zinc Chloride

TSCA: Zinc Compounds are regulated

RCRA Hazardous Waste Classification: not regulated

Disclaimer

Revision 1, prepared 2 April 2015

This information is accurate to the best of our knowledge, and is furnished without warranty of any kind. Users should determine the suitability of this material for its intended purpose. The user assumes all risks associated with the use of this product.