



Safety Data Sheet

Product and Manufacturer Information

Name: 16-0-0-20Zn, 13-0-0-15Zn, 8-0-0-10Zn (dependent upon labeled concentration)

Synonyms: Ammoniated Zinc Chloride Solution

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 Hazard Classification: H314: Causes severe skin burns and eye damage
H361: Suspected of damaging fertility or the unborn child
H402: Harmful to aquatic life

Signal Word: Warning

Label Elements:



Health Hazard



Irritant.



Environmentally Damaging

P261: Avoid breathing vapor

P262: Do not get in eyes, on skin, or on clothing.

P271: Use only outdoors or in a well-ventilated area.

P302 + P352: If on skin: Wash with plenty of water.

P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P342 + P340: If experiencing respiratory symptoms: Remove person to fresh air and keep comfortable for breathing.

Composition / Information on Ingredients

<u>Component</u>	<u>CAS #</u>	<u>% by weight</u>
Ammonia	1336-21-6	10-20
Zinc Chloride Solution	7646-85-7	33-67

This material is a mixture of the above ingredients with water, within the ranges specified, as determined by product grade.

First Aid Measures

Skin Contact: May cause redness, irritation, and chemical burns. Dermatitis has been reported with long term exposure. Rinse thoroughly with water immediately following contact. Seek medical attention if symptoms persist.

Eye Contact: Severe irritation and blurred vision may occur. Rinse thoroughly with water for 15 minutes. Seek immediate medical attention.

Respiration: Irritating to mucous membranes. Remove to fresh air. Seek immediate medical attention if mist has been inhaled.



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First Aid Measures (continued)

Ingestion: Irritating to mucous membranes. Other gastrointestinal disturbances may occur. Give large quantities of water and seek immediate medical attention. The antidote for poisoning with Zinc salts should be administered by a physician.

Fire Fighting Measures

Flash point: non-flammable

Extinguishing Materials: All standard agents are acceptable to fight surrounding fires.

Special Hazards and Precautions: Thermal decomposition may evolve oxides of Zinc, Hydrogen Chloride, Chlorine and corrosive vapors.

Accidental Release Measures

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 or aluminum vessels or equipment.

Exposure Controls / Personal Protection

Skin exposure should be kept minimal by wearing gloves, long pants, and long sleeved shirts. Wear protective goggles where splashing may occur. Remove any contaminated clothing immediately. Emergency showers should be available nearby. Do not use in enclosed spaces without proper ventilation, as vapor can be harmful to eyes and lungs.

Physical and Chemical Properties

Appearance: clear to slightly hazy, colorless to pale yellow liquid

Odor: slight to strong ammonia

pH: 9 to 11

Freezing Point: < 32F

Solubility in Water: complete

Density: 1.2 to 1.35 g/ml (10.0 to 11.2 lbs/gal)

Stability and Reactivity

This product is stable under normal use and storage conditions. This product is not a reactivity or polymerization hazard. Avoid contact with strong oxidizers.



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Toxicological Information

Long term exposure has been linked to certain reproductive effects and anemia.

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.

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 454gal (8-0-0-10Zn), 301gal (13-0-0-15Zn), or 216gal (16-0-0-20Zn).

Proper Shipping Name: Environmentally Hazardous Substances, liquid n.o.s. (contains Zinc Chloride and Ammonia), class 9, UN3082, PGIII, RQ (**4808 Lbs** for 8-0-0-10Zn, **3195 Lbs** for 13-0-0-15Zn, **2398 Lbs** for 16-0-0-20Zn)

RQ's above based on Zinc Chloride RQ of 1000lbs. Zinc Chloride is regulated as a marine pollutant.

Regulatory Information

SARA Title III Hazard Class: acute, chronic
CERCLA Reportable Quantity: Zinc Chloride = 1000lbs
TSCA: Zinc compounds are regulated
RCRA Hazardous Waste Classification: not regulated

Disclaimer

Revision 2, prepared 11 February 2016

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.