

CATALYTIC INNOVATIONS



SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Zinc Complex Solution—10% Zn

Trade Names/Synonyms: Liquid Fertilizer
Micronutrient Compound

Manufacturer: Catalytic Innovations, LLC
11601 Twitty Drive
Rolla, MO 65401

Emergency Contact Number: 573-578-1368

MSDS CREATION DATE: March 1, 2012

2. COMPOSITION

This product is not considered to be a critical hazard to man or the environment.

3. HAZARD IDENTIFICATION

"This product is not considered to be or to contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, 29 CFR 1910.1200."

4. FIRST AID MEASURES

Inhalation, Skin Contact and Eye Contact: Maybe an irritant to skin and eyes. Flush affected area with water for 15 minutes. Contact Physician for further care.

Ingestion: Maybe an irritant if ingested. Have patient drink 2 - 8 oz. glasses of water or milk to dilute. Contact Physician for further care.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD: Negligible fire and explosion hazard when exposed to heat or flame.

EXTINGUISHING MEDIA: For smaller fires, use dry chemical, carbon dioxide, or water spray, as appropriate for surrounding material. For larger fires, use water spray or foam (2008 North American Emergency Response Guidebook, Guide Number 154).

FIREFIGHTING: Move product from fire area if you can without risk. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing

vapors; keep upwind. Dike area to prevent runoff and contamination of water resources.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may include toxic and hazardous oxides of zinc, nitrogen and chloride.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Pick up and place in a disposal container. Dike and dam release as necessary to prevent contamination of waterways.

7. HANDLING/STORAGE INFORMATION

Observe all federal, state and local regulations when storing this product. It is recommended that storage and transfers of this product be done on an impervious surface to prevent contamination of waterways.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: No occupational exposure limits have been established by OSHA/ACGIH/NIOSH.

Ventilation: Use general room ventilation or adequate ventilation for comfort.

Protective Gloves and Other Protective Equipment: Not required. Voluntary use of ammonia cartridge respirator.

EYE PROTECTION: Wear safety goggles when handling this product. Use a face shield for additional protection.

FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH

CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a positive-pressure mode.

9. CHEMICAL/PHYSICAL PROPERTIES

DESCRIPTION: Clear to straw colored liquid with ammonia odor.

pH: 9 - 10

MELTING POINT: Not applicable

BOILING POINT: 170°F

WATER SOLUBILITY: Dilution with greater than 7 parts of water may cause precipitation of zinc hydroxide

SPECIFIC GRAVITY (water = 1.0): 1.16 (9.7 lbs/gallon)

10. STABILITY AND REACTIVITY

Zinc Ammonia Chloride Solution

REACTIVITY: Stable under normal temperatures and pressures.

11. TOXICOLOGICAL INFORMATION

Chronic Effects of Overexposure: None currently known. None of the components are listed as a carcinogen or suspected carcinogen.

Inhalation, Skin Contact and Eye Contact: Maybe an irritant to skin and eyes.

Ingestion: Maybe an irritant if ingested.

Acute Toxicity Values: Not Applicable

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4): No data available for this product

ACUTE AQUATIC TOXICITY: No data available for this product

DEGRADABILITY: No data available for this product

LOG BIOCONCENTRATION FACTOR (BCF): No data available for this product

LOG OCTANOL/WATER PARTITION COEFFICIENT: No data available for this product

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13. DISPOSAL CONSIDERATIONS

Evaluation is required by the user at the time of disposal. In all cases, disposal should be in accordance with all local, state, and federal laws and regulations. For recycling options please contact product manufacturer.

14. TRANSPORTATION INFORMATION

Not Established under DOT - 49 CFR 172.101

15. REGULATORY INFORMATION

SARA Reporting Requirements: Not established under EPA/SARA.

Reporting: Not Hazardous

Canadian WHMIS Classification: Not a controlled product.

EU Classification (1999/45/EC): Not Applicable

EU Risk and Safety Phrases: Not Applicable

16. OTHER INFORMATION

Prepared by: ESH Department
MSDS Preparation Date: March 1, 2012
Last Revision Date: new

FOR ADDITIONAL NON-EMERGENCY INFORMATION CONTACT:

Catalytic Innovations, LLC
11601 Twitty Drive
Rolla, MO 65401
573-578-1368

Note: This MSDS was prepared for and shall only be used for this product. The information and recommendations on this MSDS is presented in good faith and based on data which is believed to be