

MATERIAL SAFETY DATA SHEET

9% ZINC CHELATE SOLUTION

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Issue Date: 1/24/2014

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

9% ZINC CHELATE SOLUTION

Chemical Description: Diammonium salt of zinc ethylenediaminetetraacetic acid solution; Zn(NH4)2 EDTA

TSCA/CAS NO.: The primary CAS number is 67859-51-2.

Manufactured By

TEVA Corporation

6100 St Hwy 77

Benton, MO 63736

Emergency Phone Numbers

Emergency Telephone: Days: (573)-225-2400

CHEMTREC (24 HOUR EMERGENCY NUMBER): (800) 424-9300

EPA NATIONAL RESPONSE CENTER: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
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None.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Clear liquid with slight ammonia odor. Contain any liquid runoff. Not a D.O.T. regulated hazardous material.

HEALTH: 1	REACTIVITY: 0	FLAMMABILITY: 0	ENVIRONMENT: 1
(0= INSIGNIFICANT	1=SLIGHT	2=MODERATE	3=HIGH
			4=EXTREME)

SECTION 4. FIRST AID

Eyes: Flush immediately with water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Call a physician immediately.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.

Ingestion: Do not induce vomiting. If patient is conscious, give large quantities of water or milk to dilute. Do not give anything by mouth to an unconscious person. Contact a physician.

Inhalation: Move to fresh air. If breathing becomes difficult, call a physician.

**SECTION 5. FIRE AND EXPLOSION HAZARDS**

Flash Point:	Aqueous solution.
Test Method:	Not determined.
LEL Flammable Limits:	Not determined.
UEL Flammable Limits:	Not determined.
Auto Ignition Temperature:	Not determined.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	None.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Aqueous product. For fires involving dried material use water, carbon dioxide, dry chemicals or foam.
Special Firefighting Procedures:	Wear positive pressure, self contained breathing apparatus and goggles. Contain any liquid runoff.

**SECTION 6. SPILLS AND LEAKS**

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal.
Evacuation:	Not necessary.

**SECTION 7. STORAGE AND HANDLING**

Storage:	Store in plastic or stainless steel container in a cool, well ventilated, dry place at temperatures above 40°F. Do not store in contact with brass. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Avoid contact with eyes, skin and clothing. Avoid inhalation of spray mists. Wash thoroughly with water after handling.

**SECTION 8. PERSONAL PROTECTIVE EQUIPMENT**

Eyes:	Chemical dust/splash goggles or full face shield to prevent eye contact. As a general rule, do not wear contact lenses when handling.
Skin:	Impervious gloves and clothes.
Respiratory:	Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

**SECTION 9. PHYSICAL AND CHEMICAL DATA**

Appearance:	Clear liquid.
Odor:	Slight ammonia odor.
pH:	8.4 - 9.4
Vapor Pressure:	Same as water.
Vapor Density (Air=1):	Same as water.
Boiling Point:	220°F.
Freezing Point:	Not available.
Water Solubility:	Completely miscible.
Density:	10.9 lbs/gal.
Evaporation Rate:	Same as water.
Viscosity:	Not available.
% Volatile:	About 60% as water.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

**SECTION 10. STABILITY AND REACTIVITY**

Stability:	Stable.
Conditions To Avoid:	Not applicable.
Incompatibility:	Not applicable.
Hazardous Decomposition Products:	Decomposition of dry material - carbon dioxide, carbon monoxide and nitrogen oxides.
Hazardous Polymerization:	Will not occur.

**SECTION 11. POTENTIAL HEALTH EFFECTS**Acute Effects:

Eyes:	Slight irritant. May cause redness.
Skin:	Slight irritant, especially from prolonged exposure. May cause redness.
Ingestion:	May cause stomach cramps and/or nausea. LD <sub>50</sub> > 2000 mg/kg.
Inhalation:	Slight irritant. May cause coughing, soreness in respiratory tract, chest tightness, and difficulty in breathing.

Subchronic Effects: None known.Chronic effects: None known.

**SECTION 12. ECOLOGICAL INFORMATION**

Algal/Lemna Growth Inhibition: Not known.  
Toxicity to Fish and Invertebrates: Not known.  
Toxicity to Plants: Not known.  
Toxicity in Birds: Not known.

**SECTION 13. DISPOSAL**

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

**SECTION 14. TRANSPORTATION**

D.O.T.: Not D.O.T. regulated.  
Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid. NMFC Item 68140 Sub 6, LTL Class 70.

**SECTION 15. REGULATORY INFORMATION**

CERCLA: None.  
SARA TITLE III, SECTION 313 TOXIC CHEMICALS: Zinc compounds (54%)  
PROPOSITION 65 (CA): WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**SECTION 16. OTHER**

While the information contained herein is based on data considered accurate and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act, it is provided for guidance only. TEVA Corporation does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations; in so doing, user assumes all risk in use of the material. The information contained herein is not to be taken as a warranty or representation for which TEVA Corporation assumes legal responsibility.