

# Material Safety Data Sheet

## 9% ZINC

### SECTION I – Product Description

Manufacturer: Alpine Plant Foods Corporation  
30 Nevilles Street, New Hamburg, Ontario N3A 4G7  
Phone: 519-662-2352/800-265-2268  
Fax: 519-662-3446

Common Name or Synonym: Alpine Plant Foods Zinc 9

Chemical Name: Zinc Oxide Ethylenediaminetetraacetate  
Chelate Water Solution

Formula (Theoretical)

Agricultural Designation: 9% Zinc micronutrient solution

### SECTION II – Hazardous Ingredients

Chemical & CAS Number	% Present	TLV or PEL
Zinc Oxide 1314-13-2F	11.25%	
Nitriloriaoptic Acid 139-13-9	less than 0.1%	
Ethylenediaminetetraacetate 000060-004	43.72%	
Ammonium Hydroxide 1336-21-6 (see Section X – Regulatory Comment about Zinc)	16.74%	

### SECTION III – Physical Data

Boiling Point .....	200°F/106°C
Specific Gravity .....	1.3 – 1.32
Water Solubility .....	Completely miscible
pH of Solution .....	6.8 – 7.2
Appearance .....	Clear/ Slight Amber
Odour .....	Slightly Ammonia
Salting-Out Temperature .....	0°F
Vapour Pressure .....	Same as Water
% Volatile by Volume .....	None

### SECTION IV – Fire & Explosion Hazard Data

Flash Point.....	Non-combustible
Flammable Limit.....	N/A
Extinguishing Media .....	N/A
Special Fire Fighting Procedures .....	Wear positive pressure, self-contained breathing apparatus
Unusual Fire & Explosion Hazards .....	N/A



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### SECTION IV – Fire & Explosion Hazard Data – cont'd

NFPA Hazard Rating: .....  
0 – Least      1 – Slight      2 – Moderate      3 – High      4 – Severe

—————→ 1 – Health      0 – Flammability      0 - Reactivity ←————

### SECTION V – Health & First Aid Data

Threshold Limit Value.....None established

Effects of Over Exposure .....

Liquid contact may cause slight eye irritation & repeated skin exposure may cause some skin irritation.

#### Emergency & First Aid Procedures:

Skin      Wash w/plenty of soap & water. Remove contaminated clothing & wash before re-use.  
Eyes      Flush immediately with water for at least 15 minutes. Consult a physician if eye irritation is experienced.  
Inhalation      Inhalation exposure not expected unless specific use generates a mist. If breathing is difficult, administer oxygen. See a physician.  
Ingestion      SEEK MEDICAL ATTENTION IMMEDIATELY. CALL AN EMERGENCY ROOM, PHYSICIAN OR POISON CONTROL. If significant amounts have been swallowed, give individual large amounts of water or milk to drink for dilution effect.

### SECTION VI – Spill & Disposal Procedures

Stability .....Stable  
Conditions to Avoid if Unstable.....N/A  
Incompatibility w/Other Materials.....Avoid contact with Aluminum or Copper  
Hazardous Decomposition Products .....Nitrogen Oxides may be released if dried product is burned  
Hazardous Polymerization.....Will not occur  
Conditions to Avoid Uncontrolled Polymerization .....N/A

### SECTION VII – Spill & Disposal Procedures

#### Steps to be taken to Handle Spills or Releases:

Prevent product from entering drinking water supplies or streams. Contain material with dike & pump into container or use inert absorbent material. Place in proper container for disposal according to Federal, Provincial & local regulations.

#### Waste Disposal Procedures:

As product should have a pH of less than 12.5 & would not be considered hazardous waste, according to EPA Regulation 40CFR261. Dispose of in accordance with provincial & local regulations.



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### SECTION VIII – Special Protection Information

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Respiratory Protection .....Not normally needed. If mist is generated, use an approved respirator.  
Ventilation .....General industrial requirements  
Protective Gloves .....Wear impervious gloves  
Eye Protection .....  
Chemical safety goggles with side shields. As a general rule, do not wear contact lenses when handling chemicals.  
Other Protective Equipment.....Wear impervious clothing

### SECTION IX – Special Precautions in Handling & Storage

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Do not store in metal containers containing Aluminum or Copper

### SECTION X – Regulatory Comments & Other Effects

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