

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 Point200°F/106°C
Specific Gravity.....1.3 – 1.32
Water SolubilityCompletely miscible
pH of Solution6.8 – 7.2
AppearanceClear/ Slight Amber
OdourSlightly Ammonia
Salting-Out Temperature0°F
Vapour PressureSame as Water
% Volatile by VolumeNone

SECTION IV – Fire & Explosion Hazard Data

Flash Point.....Non-combustible
Flammable Limit.....N/A
Extinguishing MediaN/A
Special Fire Fighting ProceduresWear positive pressure, self-contained
breathing apparatus
Unusual Fire & Explosion HazardsN/A



Material Safety Data Sheet

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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

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



Material Safety Data Sheet

9% ZINC

SECTION VIII – Special Protection Information

Respiratory ProtectionNot normally needed. If mist is generated, use an approved respirator.
VentilationGeneral industrial requirements
Protective GlovesWear 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

Do not store in metal containers containing Aluminum or Copper

SECTION X – Regulatory Comments & Other Effects

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