# **MATERIAL SAFETY DATA SHEET**

BRANDT PREMIUM ZINC 7%

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

## **Chemical Product**

**BRANDT PREMIUM ZINC 7%** 

Chemical Description: Liquid fertilizer mixture containing zinc citrate, zinc diammonium

ethylenediaminetetraacetate [(NH<sub>4</sub>)<sub>2</sub> EDTA] and ammonia.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

## Manufactured For

Brandt Consolidated, Inc.

2935 S. Koke Mill Road

Springfield, IL 62711

## **Emergency Phone Numbers**

Emergency Telephone: DAYS: (559) 499-2100 EVES: (559) 994-9144

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2.	HAZARDOUS INGREDIENTS			
CHEMICAL	CAS NO	%	TIV OR PEI	RO (lhs)

Ammonium hydroxide	1336-21-6	17.5	N.A.*	1,000 lb

#### SECTION 3. **EMERGENCY/HAZARDS OVERVIEW**

Clear, pale straw-yellow liquid with distinct ammonia odor. Moderate irritant to eyes, skin, mouth, throat and digestive tract. If ingested, do not induce vomiting. Call a physician or Poison Control Center immediately. Not D.O.T. regulated.

HEALTH: 2 **REACTIVITY: 0** 

FLAMMABILITY: 0

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1,000 lbs.

**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. Call a physician if eye irritation persists.
Skin:	Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. See a physician if skin becomes irritated.
Ingestion:	<u>Do not induce vomiting</u> . If conscious and alert, administer large quantities of water or milk to dilute. Call a physician or Poison Control Center immediately.
Inhalation:	Move to fresh air. If breathing becomes difficult, call a physician.

<sup>\*</sup> N.A. - Not available.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point: >200°F.

Test Method: ASTM D-56.

LEL Flammable Limits: Not pertinent.

UEL Flammable Limits: Not pertinent.

Autoignition Temperature: Not pertinent.

Flammability Classification: Not pertinent.

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: None.

Potential For Release of Flammable Vapors: None.

Unusual Fire & Explosion Hazards: None.

Extinguishing Media: Does not burn.

Special Firefighting Procedures: Wear positive pressure, self-contained

breathing apparatus and goggles.

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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 near food or feeds. Do not stack pallets more than two (2) high.

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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, pale straw-yellow liquid.

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Odor: Distinct ammonia odor.

pH: 8.6

Vapor Pressure: Not available.

Vapor Density (Air=1): <1.0

Boiling Point: 104°C (220°F)

Freezing Point: Not available.

Water Solubility: Soluble.

Density: 9.5 lbs./gal.

Evaporation Rate: Not available.

Viscosity: Not available.

% Volatile: Not available.

Octanol/Water Partition Coefficient: Not available.

Saturated Vapor Concentration: Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions To Avoid: Contact with strong oxidizers (acids) may result in

exothermic (heat producing) reactions.

Incompatibility: Not available.

Hazardous Decomposition Products: High temperatures may result in evolution of ammonia

fumes and nitrogen oxides.

Hazardous Polymerization: Will not occur.

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## SECTION 11. POTENTIAL HEALTH EFFECTS

## Acute Effects:

Eyes: Moderate irritant. May cause redness, burning and, from prolonged

contact, irreversible corneal damage.

Skin: Moderate irritant, especially from prolonged exposure. May cause

redness.

Ingestion: May cause irritation and burns to the mouth, throat and digestive tract.

Inhalation: None expected but inhalation of aerosol mist may cause mild irritation of

nasal mucous membranes.

<u>Subchronic Effects</u>: None known.

Chronic Effects: None known.

### SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:

Toxicity to Fish and Invertebrates:

Not known.

Toxicity to Plants:

Not known.

Not known.

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.

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SECTION 14.	TRANSPORTATION		
D.O.T.:	<649 gallons	Not regulated.	
	> 649 Gallons	Corrosive Liquid, N.O.S. (Zinc Chloride,	
		Ammonia), 8, UN 1760, PG III, RQ	
Other Shipping Description:		Fertilizing compounds (Manufactured),liquid.	
		NMFC Item 68140 Sub 6, LTL Class 70	

# SECTION 15. REGULATORY INFORMATION

<u>CERCLA</u>: Ammonium hydroxide is listed as a priority pollutant under the Clean Water Act and, as such, falls under the CERCLA spill reporting requirements.

SARA TITLE III, Section 313 Toxic Chemicals: None.

<u>PROPOSITION 65 (CA)</u>: 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. Brandt Consolidated 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 Brandt Consolidated assumes legal responsibility.

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