



SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

BRANDT HUMI-CAL

Common Name: Calcium humate solution.
Chemical Description: Solution of Calcium and Humic Acid
TSCA/CAS No.: This product is a mixture – there is no primary CAS No.

Manufactured For

Brandt Consolidated, Inc.
2935 So. Koke Mill Road
Springfield, IL 62711

Emergency Phone Numbers

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

Black liquid with seaweed odor. Harmful if swallowed. May cause eye, skin and inhalation irritation. Avoid contact with strong acids, chlorides, nitrocarbons, chlorocarbons, or strong bases. Not D.O.T. Regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 0
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)

SECTION 4. FIRST AID

Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	Does not flash.
Test Method:	Not available.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	Not known.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	Not known.
Potential For Release of Flammable Vapors:	Not known.
Unusual Fire & Explosion Hazards:	None.
Extinguishing Media:	Carbon dioxide, chemical, foam, or water fog.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus and full protective clothing. Avoid smoke inhalation. Contain any liquid runoff.

SECTION 6.	SPILLS AND LEAKS
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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
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Storage:	Store in original container only in a cool, well-ventilated, dry location at temperatures between 40 and 95°F. Do not store near food or feeds. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing spray mists or vapors. After using this product, remove clothing and launder separately before reuse. Thoroughly wash hands and exposed skin with soap and water.

SECTION 8.	PERSONAL PROTECTIVE EQUIPMENT
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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:	Wear impervious clothes, waterproof gloves, shoes plus socks.
Respiratory:	Not normally needed. If use generates a 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:	Black liquid.
Odor:	Seaweed odor.
pH:	9 - 10
Vapor Pressure:	Not applicable.
Vapor Density (Air=1):	Not applicable.
Boiling Point:	>210°F.
Freezing Point:	Not available.
Water Solubility:	99% soluble.
Density:	9.7 lbs./gal.
Evaporation Rate:	Slightly less than water.
Viscosity:	Not applicable.
% Volatile by volume (%):	70% volatile @ 105°C.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Avoid temperatures over 150°F.
Incompatibility:	Strong acids, chlorides, or nitrocarbons, chlorocarbons.
Hazardous Decomposition Products:	None.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Irritant. May cause redness and burning.
Skin:	Irritant, especially from prolonged exposure. Concentrate may cause slight burn to human tissue.
Ingestion:	May cause nausea, abdominal discomfort, vomiting and diarrhea.
Inhalation:	None expected, but inhalation may cause mild irritation of nasal mucous membranes.
<u>Subchronic Effects:</u>	None known.
<u>Chronic Effects:</u>	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 in accordance with state and local waste disposal 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.

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: None.

SECTION 16. OTHER

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