



SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

MATRATEC™

Common Name: Natural foliar herbicide.

Chemical Description: Blend of natural plant oil extracts.

	Ingredient Name	% by wt.	CAS#	Exposure Limit
Active Ingredients:	Clove Oil	50.0%	8000-34-8	None Established
Inert Ingredients:	Emulsifiers & Solvents	to 100%	-	None Established

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

Clear pale amber liquid with a clove scent. Prolonged exposure to this product may cause skin irritation, eye/nasal irritation, dizziness, headache or nausea. This product is combustible. Burning may result in the formation of carbon dioxide, carbon monoxide, smoke, fumes, and unburned hydrocarbons and terpenes. Not D.O.T. regulated.

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

SECTION 4. FIRST AID

- Eyes: Flush with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician if irritation persists.
- Skin: Wash exposed area with soap and water for at least 15 minutes. Remove contaminated clothing. Get medical attention if irritation persists.
- Ingestion: Rinse mouth out with water. Call a doctor or get medical attention as soon as possible. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Avoid alcohol.
- Inhalation: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

SECTION 5.	FIRE AND EXPLOSION HAZARDS
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Flash Point:	>190°F
Test Method:	Closed Cup.
LEL Flammable Limits:	Not available.
UEL Flammable Limits:	Not available.
Autoignition Temperature:	Not available.
Flammability Classification:	Combustible.
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:	Foam, carbon dioxide, or dry chemical.
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 place 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 or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Keep out of reach of children. Avoid contact with eyes skin and clothing. Avoid breathing vapors or spray mist. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

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:	Long sleeved shirt and long pants, rubber gloves of Nitrile, Neoprene or natural rubber, shoes and socks.
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:	Pale amber liquid.
Odor:	Clove scent.
pH:	Not determined.
Vapor Pressure:	None.
Vapor Density (Air=1):	Not available.
Boiling Point:	Not available.
Freezing Point:	Not available.
Water Solubility:	Emulsifiable.
Density:	8.84 lbs./gal. (± 0.02)
Evaporation Rate:	Not determined.
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:	Excess heat.
Incompatibility:	Not known.
Hazardous Decomposition Products:	Burning may result in formation of carbon dioxide, carbon monoxide, smoke, fumes and unburned hydrocarbons and terpenes.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTS

<u>Acute Effects:</u>	
Eyes:	May cause eye irritation.
Skin:	May cause slight irritation, especially from prolonged exposure.
Ingestion:	May cause stomach cramps, headache and/or nausea.
Inhalation:	None expected but inhalation may cause irritation of nasal passages and/or dizziness.
<u>Subchronic Effects:</u>	Not known.
<u>Chronic Effects:</u>	Not 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. (Ground):	Not D.O.T. Regulated.
Other Shipping Description:	Compounds, Tree or Weed Killing (Herbicide), Liquid. NMFC Item 50320, LTL Class 60

SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

SECTION 16. OTHER

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