

# SAFETY DATA SHEET

MTFC

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: I Must Garden Mosquito Tick Flea Repellent (Concentrate) REVISION DATE: 02 May 2016  
TRADE NAME: I Must Garden Mosquito Tick Flea Repellent (Concentrate) GENERAL USE: Insect Control  
CHEMICAL FAMILY: Botanicals PRODUCT DESCRIPTION: Liquid with fragrant odor.  
MANUFACTURER: **I Must Garden, LLC** TELEPHONE NUMBER (General Inquiries) 1-877-446-2929 / 1-919-929-2299 Locally  
ADDRESS : 1289 N. Fordham Blvd, Chapel Hill, NC 27514 COUNTRY: USA  
**EMERGENCY TELEPHONE NUMBERS:** 1-877-446-2929 United States (Toll Free) 919-929-2299 Internationally and Local Calls

## SECTION 2 – HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Ingestion may cause some gastric and/or intestinal distress. May cause mild irritation to eyes. Irritation to skin may occur - primarily from prolonged or repeated exposures. Product has low overall toxicity. Product is safe for use near bodies of water when used as directed. **I Must Garden represents that this product qualifies for exemption from registration under the Federal Insecticide, Fungicide, and Rodenticide Act.**

US DOT HAZARD SYMBOL(S) **NONE – Non-hazardous for transport**

HMIS HAZARD RATINGS: 0 = INSIGNIFICANT, 1 = SLIGHT, 2 = MODERATE, 3 = HIGH, 4 = EXTREME

HEALTH: 1, FLAMMABILITY: 0, PHYSICAL HAZARD: 0

REQUIRED PERSONAL PROTECTIVE EQUIPMENT: HMIS PERSONAL PROTECTIVE EQUIPMENT LETTER: C

Safety glasses, gloves and apron are suggested while spraying product.

POTENTIAL HEALTH EFFECTS

INHALATION: No significant effect expected from a single short-term exposure.

SKIN: May be slightly irritating to skin, mainly from prolonged or repeated exposures.

EYES: May cause eye irritation from direct contact.

INGESTION: May cause digestive tract disturbances. Short-term symptoms may include nausea, vomiting, and diarrhea.

CARCINOGENICITY: NTP? **NO** IARC MONOGRAPHS? **NO** OSHA REGULATED? **NO** CALIFORNIA, Prop. 65? **NO** ESIS NOTATION? **NO**

## SECTION 3 – INFORMATION ON PRODUCT COMPOSITION

Component	% (by weight)	CAS #
Cedarwood Oil	9.20%	8000-27-9
Lemongrass Oil	4.50%	8007-02-1
Thyme Oil	4.10%	8007-46-3
Garlic	3.90%	N/A
Citronella Oil	2.0%	8000-29-1
Rosemary Oil	1.80%	8000-25-7
Geraniol	1.80%	106-24-1
Peppermint Oil	1.80%	8006-90-4

NOTES: This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS) and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation).

## SECTION 4 – FIRST AID MEASURES

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult medical personnel.

EYES: If in 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 eyes. Seek medical attention if irritation persists.

SKIN: Wash thoroughly with soap and water, no further first aid should be required.

INGESTION: If ingested in large amounts and victim is conscious and able to swallow, have victim drink water to dilute. Call a physician or Poison Control Center. Never give anything by mouth if a victim is unconscious or having convulsions. Induce vomiting only if advised by a physician or Poison Control Center. **Note to physician: Gastric Lavage with activated charcoal is acceptable treatment where warranted.**

## SECTION 5 – FIRE FIGHTING MEASURES

GENERAL HAZARDS: Product is combustible under fire conditions. Products of combustion include compounds of carbon, hydrogen, nitrogen, sulfur and oxygen, including Carbon Monoxide

EXTINGUISHING MEDIA: Water fog, carbon dioxide and dry chemical.

FIRE FIGHTING PROCEDURES: Wear SCBA when fighting fires involving any chemical product. Individual containers may rupture under fire conditions.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS COMBUSTION PRODUCTS: Carbon compounds and oxides, nitrogen compounds and oxides, sulfur compounds and oxides, phosphorous compounds and oxides.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: For all spills, soak up with approved absorbent (clay or diatomaceous earth is a good choice) or wipe up with towel. Wash area with soap and plenty of water.

## SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Store in a cool, dark location, avoiding direct sunlight. Keep this and all lawn and garden products out of the reach of children.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	CAS #	ACGIH Exposure Limits	OSHA Exposure Limits
		(mg/m3 unless otherwise noted)	(mg/m3 unless otherwise noted)
Cedarwood Oil	8000-27-9	NE	NE
Lemongrass Oil	8007-02-1	NE	NE
Thyme Oil	8007-46-3	NE	NE
Garlic	N/A	NE	NE
Citronella Oil	8000-29-1	NE	NE
Rosemary Oil	8000-25-7	NE	NE
Geraniol	106-24-1	NE	NE
Peppermint Oil	8006-90-4	NE	NE

## PERSONAL PROTECTION

RESPIRATORY PROTECTION: Not required during normal use; wear self-contained breathing apparatus for firefighting.  
PROTECTIVE GLOVES: None required unless irritation occurs. For susceptible personnel, wear nitrile or neoprene gloves.  
EYE PROTECTION: Safety glasses or goggles should be worn as good practice.  
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear protective clothing while spraying product. For severe decontamination, use shower. Wash basin is suggested for cleansing hands after use.  
WORK / HYGIENIC PRACTICES: Wash hands after use. Remove all contaminated clothing and laundry before re-use. Wash skin with soap and water.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Liquid Concentrate with fragrant odor.	pH: Slightly acidic
MELTING POINT: Not Determined	FLASH POINT: >100°C (212°F) (Estimated)
FLAMMABLE LIMITS: LEL: ND UEL: ND	AUTOIGNITION TEMPERATURE: Not Determined
VAPOR PRESSURE: Not Determined	SPECIFIC GRAVITY (WATER = 1): Not Determined
SOLUBILITY IN WATER: Miscible	VISCOSITY: Not Determined
VAPOR DENSITY (AIR = 1): Not Determined	EVAPORATION RATE (WATER = 1): Not Determined
VOLATILE ORGANIC COMPOUND (VOC) INFORMATION: None established	NOTES: None

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions  
CONDITIONS TO AVOID: Extreme temperatures, direct sunlight, keep from freezing  
INCOMPATIBILITY (MATERIALS TO AVOID): Water-reactive products, Strong oxidizers  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon compounds and oxides, nitrogen compounds and oxides, sulfur compounds and oxides, phosphorous compounds and oxides - under fire conditions. Product may degrade into alcohol/organic acid mixture under direct sunlight for extended periods.  
HAZARDOUS POLYMERIZATION: Will not occur.  
CONDITIONS TO AVOID: None related to hazardous polymerization.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Complete Product

Oral LD50	Product is likely to be a gastro-intestinal irritant.
Dermal LD50	Not known - product may be slightly irritating by contact with skin.
Inhalation LC50	Not known - product may be a mild irritant to the respiratory tract.
Irritation	Probable irritant to eyes; possible irritant to skin and respiratory tract.

### Product Components

Component	CAS#	LD50 of Ingredient (Oral, Rat – Unless otherwise specified)	LC50 of Ingredient (Inhalation, Rat – unless otherwise specified)
Cedarwood Oil	8000-27-9	830 mg/kg	NE
Lemongrass Oil	8007-02-1	>5000 mg/kg	NE
Thyme Oil	8007-46-3	NE	NE
Garlic	N/A	NE	NE
Citronella Oil	8000-29-1	NE	NE
Rosemary Oil	8000-25-7	NE	NE
Geraniol	106-24-1	NE	NE
Peppermint Oil	8006-90-4	NE	NE

## SECTION 12 - ECOLOGICAL INFORMATION

Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system. None of the ingredients in this mixture are classified as a Marine Pollutant.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Product is classified as non -hazardous. Consult your local, state, or the Federal Environmental Protection Agency before disposing of any chemicals.

## SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not Regulated	DOT HAZARD CLASS / Pack Group: None
REFERENCE: 49 CFR 170-177	UN / NA IDENTIFICATION NUMBER: None
LABEL: None	HAZARD SYMBOLS: None
IATA HAZARD CLASS / Pack Group: None	IMDG HAZARD CLASS: None
RID/ADR Dangerous Goods Code: None	UN TDG Class / Pack Group: None
Hazard Identification Number (HIN): None	

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA,EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

## SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All components are listed.  
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):  
Acute Health: NO Fire: NO Reactive: NO Chronic Health: NO Sudden Release of Pressure: NO  
SARA 313 REPORTABLE INGREDIENTS: None  
CERCLA (USA - Comprehensive Response Compensation and Liability Act): No components with an RQ.  
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: No Reportable Components.  
CPR (Canadian Controlled Products Regulations): Not Controlled per WHMIS.  
IDL (Canadian Ingredient Disclosure List): Non-Hazardous - No Disclosure Required.  
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on NDSL

## SECTION 16 - OTHER INFORMATION

Legend:

ACGIH	American Congress of Government Industrial Hygienists
CAS	Chemical Abstracts Service
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
NA	Not Available ND Not Determined
NE	Not Established NR Not Reported
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration