



SAFETY DATA SHEET (SDS)

Date Revised : 01 / 15

Supersedes : 07 / 14

**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS
CONTAINS NO CHLORINES , PHENOLS,
QUATS , OR OTHER SYNTHETIC CHEMICALS**

SECTION 1 : IDENTIFICATION OF SUBSTANCE / COMPANY

PRODUCT NAME / IDENTIFIER :

“ BOTANICAL DISINFECTANT ”

(EPA Registration # : 84683 – 1- 74771-1)

PRIMARY APPLICATION / RECOMMENDED USAGE :

A Natural Disinfectant which is made from botanically pure antimicrobial **Thyme Oil** plant extracts . Broad spectrum of Efficacy. Proven to kill over 99.99% of Bacteria, Fungi , Tuberculosis ,and HIV. Registered with the US -EPA as a high-level , hospital-grade Disinfectant, Fungicide, Tuberculocide, and Virucide (against HIV-1) that requires no rinsing or wiping after application on most surfaces . Effective against Blood-borne pathogens .

DISTRIBUTED EXCLUSIVELY BY :

HEALTHY CLEAN BUILDINGS

4 Wilmington Drive

Melville, New York 11747

1-631-643-1882

INFORMATION TELEPHONE :

EMERGENCY TELEPHONE :

1- (800) 909-2813 (reference :Sensible Life - Benefect)

USAGE RESTRICTIONS :

Refer to Product Label

SECTION 2 : HAZARD(S) IDENTIFICATION

This preparation is not classified as dangerous according to Directive 1999 / 45 / EC and its amendments . - No Hazardous Components or VOC release into air . The active ingredient in “ BOTANICAL DISINFECTANT ” is a highly specialized **Thyme oil** that has natural germ-killing capabilities proven to be equal to the leading traditional ingredients but is Generally Recognized as Safe (G.R.A.S.) by the U.S. Food and Drug Administration .The botanical active ingredient is classified by the E.P.A. as having no known adverse effects to human health or environment . NOTE : Prolonged contact with eyes may cause minor physical irritation . Ingredients used to make this product are not acutely toxic .

Signal Word : No Cautions / Warnings on the label or MSDS sheets are necessary . None are required on product label due to no toxicity for all routes of exposure .

Ingredients with Unknown Acute Toxicity : None

Other Hazards : None



**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS
CONTAINS NO CHLORINES , PHENOLS,
QUATS , OR OTHER SYNTHETIC CHEMICALS**

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS :

Chemical characterization : Mixture

Hazardous Components : N / A – This preparation is not classified as dangerous according to Directive 1999 / 45 / EC and its amendments .

There are No OSHA Hazardous Substances in this product. The exact percentage of ingredients in this product have been withheld as trade secrets . Any hazards associated with this finished product are listed in SECTION 2 of this SDS .

Active Ingredient :	Purpose :	CAS # :	WT % :	ACGIH -TLV
Thymus Vulgaris Oil Thymol – Thyme Oil 0.5 %	Natural Anti-Microbial	8007-46-3	0.1 – 1	5 mg / m3 Mist

Other Related Ingredients (Full Disclosure) : Citric Acid (cornstarch derived water softener) ; Citrus Limonum (Lemon) Oil ; Copper Sulfate Pentahydrate (bluestone- mineral derived water mineralizer) ; Sodium Citrate (a natural pH balancer and cornstarch derived water softener) ; Sodium Lauryl Sulfate (palm kernel or coconut-derived cleaning agent) ; Water

SECTION 4 : FIRST AID MEASURES

Description of Necessary Measures : None are required on product label .

Relevant Routes of Exposure : EPA Category IV Toxicity for ALL Routes of Exposure : Inhalation , Skin Contact , Eye Contact , & Ingestion

Description of Necessary Measures :

After Inhalation : Under normal conditions , No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , supply fresh air . Consult a doctor if adverse conditions persist . Note : Ingredients are not acutely toxic by inhalation .

After Skin Contact : Under normal conditions , No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , wash with soap and water . If skin irritation or rash persists, seek medical attention .

After Eye Contact : Under normal conditions, No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , prolonged exposure may cause mild irritation to the eye tissue if not removed . In case of extreme contact , immediately flush eyes with large quantities of warm running water for 15 minutes , lifting upper and lower lids occasionally . If easy to do, remove contact lenses . Continue water rinsing . If eye irritation persists, seek medical attention .

After Ingestion : Under normal conditions , No Effect as per FIFRA CFR 10 – Part 162.10 . Under extreme conditions , may cause nausea . Rinse mouth . DO NOT induce vomiting . If patient is fully conscious, continue to rinse mouth with water and drink 2-3 glasses of water . If adverse conditions persist , seek medical attention . Never give anything by mouth if victim is conscious , rapidly losing consciousness, or is convulsing .

Note to Physicians : Treat symptomatically .

Effects of Chronic Exposure : Non-hazardous by OSHA criteria



**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS
CONTAINS NO CHLORINES , PHENOLS,
QUATS , OR OTHER SYNTHETIC CHEMICALS**

SECTION 5 : FIRE FIGHTING MEASURES :

Suitable Extinguishing Media : This product does not support combustion. Use fire extinguishing media appropriate for surrounding materials , such as Foam, Dry Powder, Carbon Dioxide, Water Spray, or Sand .

Specific Hazards Arising from the Chemical : No Data . **Unsuitable Extinguishing Media :** None **Flashpoint (°F, °C , PMCC) :** None to Boil

Flammability : Not Flammable (Aqueous Solution) - This product will not burn .

Hazardous Combustion Products : Not Applicable

Fire Fighting Instructions : Move containers from fire area if you can do it without risk .

Special Protective Equipment for Fire Fighters : Use protective equipment appropriate for firefighting surrounding materials .

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Environmental Precautions : Ventilate area . Avoid overexposure to skin, eyes, or clothing . Absorb excess product for disposal with inert solids (ie : sand, clay) as soon as possible . Flush remaining product from spill with water to clean up residue . Absorb slurry with an appropriate liquid-binding absorbent (ie : sand, diatomite , universal binders , sawdust) . Clean contaminated surfaces thoroughly . Store leaky container away from other materials . Although product is innocuous , make best efforts to prevent entry into sewers and public waters. Take extreme measures to prevent large quantities of product to reach ground water, water course, or sewage system . Dispose of material and container in accordance with local, state, national , and international regulations .

SECTION 7 : HANDLING & STORAGE REQUIREMENTS

Precautionary Statements : None are required on product label .

KEEP OUT OF REACH OF CHILDREN : Can be used around children, pets, and the chemically sensitive without the concerns of harmful petrochemical exposure .

Precautions for Safe Handling : Read product literature, label , and SDS before use . Use product strictly according to label directions .

Provide adequate ventilation in storage area to prevent formation of fumes .

Hygiene Measures : Launder soiled, contaminated clothing before re-use .

Safe Storage Conditions : Store airtight at room temperature . Keep in original container in a cool , well-ventilated place away from open flame. Keep container closed when not in use. Avoid excessive heat as product may become liquid at temperatures above 115° F (46.1 °C) .

Avoid freezing product as separation will occur .

Incompatible Products : Not Applicable

Incompatible Circumstances : Direct sunlight . Keep from Freezing .

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protection Equipment - Under normal use , none required .

Healthy & Safety Accreditation : 100 % Bio-based . Personal Protective Equipment (PPE) is not required -- Although optional, there is no need for rubber gloves, boots, aprons, respirators or face shields to protect individual from the product.

Workplace Control Parameters : If work practices generate dust, fumes, gas, vapors, or mists which expose individuals to abnormal exposure above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered .

Engineering Controls : Adequate general ventilation

Personal Protective Equipment : When using this product as directed on the product label , no protective equipment is necessary . None required by OSHA or NIOSH . Take normal precautions when using any botanical- based product .

Respiratory Protection : May not be required under normal conditions of use . Otherwise, use appropriate mask

Skin / Hand Protection : May not be required under normal conditions . Otherwise , wear chemical resistant gloves .

Eye Protection : May not be required under normal conditions . Otherwise , wear chemical goggles, safety glasses , or full face shield .

Other Information : DO NOT eat, drink, or smoke during use .



**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS
CONTAINS NO CHLORINES, PHENOLS,
QUATS, OR OTHER SYNTHETIC CHEMICALS**

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid	Color : Light Tan	Odor : Lemon-Clove
pH (as is) : 4.0 – 6.0	Relative Evaporation Rate (butyl acetate=1) : As per water	Melting Point : N/D
Freezing Point : Not Determined	Boiling Point (Initial) : > 212 °F (100 °C)	Flashpoint : Non-Applicable
Solubility in Water : Soluble . Some separation occurs. Agitation is Not required . Efficacy is Guaranteed .		
Evaporation Rate (Ethyl Ether=1 : ND	Flammability : No	
Explosive Limits : (LEL) : Not Applicable ; (UEL) : Not Applicable	Vapor Pressure : Undetermined	
Relative Density : 0.995	Partition coefficient : (n-octanol/water) Undetermined	Auto-ignition Temperature : Undetermined
Decomposition Temp. : NE	Specific Gravity (Water = 1) : 1.00 – 1.02	% VOC (by weight) : < or = 0.01 %

SECTION 10 : STABILITY AND REACTIVITY

Reactivity : No Additional Information Available
Chemical stability : Stable under Normal Conditions .
Possibility of Hazardous Reactions : Same as Water .
Conditions to Avoid : Direct Sunlight . Extremely High or Low Temperatures . If product is frozen, irreversible separation may occur .
Incompatible Materials : Not Known
Hazardous Decomposition By-products : None

SECTION 11 : TOXICOLOGICAL INFORMATION

Information on Toxicological Effects : There are No OSHA Hazardous Substances in this product. Any hazards associated with this finished product are listed in SECTION 2 of this SDS .
Likely Routes of Exposure : Inhalation, Ingestion, Skin Contact, Eye Contact (No further data is available)
Inhalation : Little , if any, Irritating Effect . If an allergic reaction does occur , move individual to fresh air .
Skin Contact : Little, if any, Irritating Effect . In extreme cases , if " Redness " or Sensitization occurs through direct skin contact , seek the attention of a physician immediately .
Eye Contact : Irritating Effect May Occur Through Direct Contact . In extreme cases , if "redness" and watering of eyes persists , seek the attention of a physician immediately .
Ingestion : None Under Normal Use . In extreme cases , nausea , stomach cramps , or vomiting may occur .
Symptoms Related to the Physical, Chemical, and Toxicological Characteristics : No Further Information Available
Delayed and Immediate Effects (Chronic Effects from Short and Long Term Exposure) : Unknown
Delayed and Immediate Effects : Unknown.
Chronic Effects : Unknown.
Teratogenicity, Mutagenicity : No Data Available
Reproductive Toxicity : Not Classified
Specific Target Organ Toxicity (Single Exposure) : Not Classified
Specific Target Organ Toxicity (Repeated Exposure) : Not Classified
Carcinogenic Categories : No components present at 0.1 % or greater are listed as being carcinogens by OSHA, ACGIH , IARC, NTP, or WHMIS .
SARA – Section 13 (Toxic Chemical Release Reporting) 40 CFR 372 : No ingredients above reportable quantities .
Toxic Substances Control Act (TSCA) – All of the ingredients are listed or exempt from listing on the Chemical Substance Inventory .
NTP (National Toxicity Program) : None of the Ingredients are listed
IARC (International Agency for Research on Cancer) : None of the ingredients are listed .
OSHA (Occupational Safety and Health Administration) : None of the Ingredients are listed



**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS**

TOXICOLOGICAL INFORMATION (continued) :

Measures of Toxicity : The following Acute Toxicity Estimates (ATE) are calculated on this GHS document .
Acute Toxicity Exposure : (see table below)

<u>Proprietary Surfactant Blend :</u>	<u>Result :</u>	<u>Species :</u>	<u>Exposure :</u>
	LD50	Rat	Oral = 4700 mg/kg (less toxic than vinegar)
	LC50		Not Established

Symptoms / Injuries After Inhalation : No Effect
Symptoms / Injuries After Skin Contact : No Effect
Symptoms / Injuries after Eye Contact : No Effect

<u>Route of Exposure :</u>	<u>Result :</u>	<u>Reference / Verification Test</u>
Inhalation	No Effect (>2mg / L)	Health Canada Toxicity Profile Review
Skin Irritation	No Effect (No Irritation)	Health Canada Toxicity Profile Review
Dermal Toxicity	No Effect (>5000 mg/kg)	Health Canada Toxicity Profile Review
Dermal Sensitization	Non - Sensitizer	Health Canada Toxicity Profile Review
Eye Irritation	No Effect (Minimal Irritation)	Health Canada Toxicity Profile Review
Ingestion	No Effect (>5000 mg/kg)	Health Canada Toxicity Profile Review

SUMMARY : (as per Health Canada Toxicity Profile Review for DIN 02242474)

SECTION 12 : ECOLOGICAL INFORMATION



ENVIRONMENTAL ACCREDITATION :

EcoLogo (ECP050029 (CCD - 166)) -- (<http://ul.com>)

There are No OSHA , WHMIS , or NOM-010-STPS Hazardous Substances in this product .

Any hazards associated with this finished product are listed in SECTION 2 of this SDS .

ECOTOXICITY :

Ingredients : No data available on listed ingredients in SECTION 3 of this SDS .

Ecotoxicity / Species : Not toxic to aquatic life (IC50 > 100 mg/L , Protocol EPS 1 / RM / 24)

Mobility : This product is miscible in water .

Degradability : This product is readily biodegradable > or = 60 % degradation in 28 days . Based on the Best Fit Curve (R = 0.9644) , the product achieved 84.8 degradation 14 days after achieving 10% biodegradation (14 day window) .

Additional Information : None available



**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS
CONTAINS NO CHLORINES , PHENOLS,
QUATS , OR OTHER SYNTHETIC CHEMICALS**

ECOLOGICAL INFORMATION : (continued)

BIOACCUMULATIVE POTENTIAL :

Botanical DisinfectantNot Established

AQUATIC TOXICITY : Chemical Oxygen Demand (COD) – Results : Mean Chemical Oxygen Demand = 0.01 mg oxygen / mg

MICROTOX IN® Acute Toxicity Test : (Test Organism) Vibrio Fischeri / Observation Time : 15 minutes /

Results : - 22.08 % inhibition of bioluminescence at 100 mg / L " Standard Use " of the product .

TERRESTRIAL TOXICITY :No Additional Information Available

MOBILITY IN SOIL:No Additional Information Available

OTHER ADVERSE EFFECTS :

Effect on Ozone Layer :No Additional Information Available

Effect on Global Warming :No Additional Information Available

Other Information :Not Applicable

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations : There are no label warnings or precautionary statements for use or disposal. Do Not re-use or refill this empty container . Offer empty container for recycling . If recycling is not available , discard in trash . Dispose in safe manner in accordance with local / state / federal / international regulations. Dispose of contents / container in accordance with local/regional/national/international regulations .

Ecology – Waste Materials : Not Applicable

Recommended Cleansing Agents : Water Only

SECTION 14 : TRANSPORT INFORMATION

US DOT, IATA, IMDG, TDG, SCT : This product is not regulated for transport.

ADDITIONAL INFORMATION : No other special precautions with transport are known.

SECTION 15 : REGULATORY INFORMATION

Safety, Health, and Environmental Regulations/Legislation specific for the substance or mixture

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

The Occupational Safety and Health Administration requires Safety Data Sheets to provide any hazards that may be associated with the product and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain additional health hazard information not pertinent to consumer use.

REGULATORY INFORMATION (continued) :

US TSCA INVENTORY STATUS : All chemicals used in this product are either listed on or exempt from the TSCA Inventory.

SARA 302 COMPONENTS : No chemicals used in this product are reportable under SARA Title III, Section 302.

SARA 311/ 312 / 313 COMPONENTS : No chemicals used in this product are reportable under SARA Title III, Section 311-313.



**BOTANICAL
DISINFECTANT
MADE WITH NATURAL INGREDIENTS**

**KILLS OVER 99.99 % OF GERMS
EFFECTIVE AGAINST
BLOOD-BORNE PATHOGENS
CONTAINS NO CHLORINES , PHENOLS,
QUATS , OR OTHER SYNTHETIC CHEMICALS**

REGULATORY INFORMATION (continued) :

CALIFORNIA PROPOSITION 65 : This product is not known to contain any chemicals currently listed under California Proposition 65 at reportable levels.

MASSACHUSETTS COMMONWEALTH'S RIGHT TO KNOW : No chemicals used in this product are reportable under the Massachusetts Commonwealth's Right to Know Act.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW : No chemicals used in this product are reportable under the New Jersey's Right to Know Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW : No chemicals used in this product are reportable under the Pennsylvania Worker and Community Right to Know Act.

CANADA DSL STATUS : All chemicals used in this product are either listed or exempt.

WHMIS CLASSIFICATION (WHMIS Ingredient Disclosure List & WHMIS Controlled Products) : No ingredients Listed -- Ingredients are listed as "Non- Hazardous & " Non-Irritant " by WHMIS criteria . EC Label : This product is not classified as dangerous according to Directive 1999 /45 / EC and its amendments .

EC LABEL : This product is not classified as dangerous according to Directive 1999 /45 / EC and its amendments .

SECTION 16 : OTHER INFORMATION

ORGANISM (TYPE)	REDUCTION	CONTACT TIME
Salmonella choleraesuis (Gram -ve)	99.999+%	10 minutes
Staphylococcus aureus (Gram +ve)	99.999+%	10 minutes
Pseudomonas aeruginosa (Gram +ve Human Pathogen)	99.999+%	10 minutes
Trichophyton mentagrophytes (Fungi- spore forming)	99.999+%	10 minutes
Mycobacterium tuberculosis (TB)	99.999+%	5 minutes
Human Immunodeficiency virus type 1 (HIV - 1, the AIDS virus)	99.999+%	10 minutes

Hospital disinfectants need to be registered with the EPA to make health claims. " BOTANICAL DISINFECTANT " Disinfectant is registered with the E.P.A. for control against Gram-Negative and Gram-Positive Bacteria (MRSA) ; Salmonella enteric; Staphylococcus aureus & Pseudomonas aeruginosa ; Fungi (Trichophyton mentagrophytes), Viruses (HIV- 1, the AIDS virus) and Tuberculosis (Mycobacterium tuberculosis). Any disinfectant must submit successful kill data against the following organisms

within a standard contact time of 10 minutes. The equivalent to over 99.99% reduction is required for disinfectant registration. These particular organisms were chosen as representatives of their category or structure of bacteria to simplify the testing process & avoid having to test every organism in a category.

NOTE: Not required, nor recommended, to be rinsed or wiped off at all due to its botanical ingredients and neutral pH.



**BOTANICAL
DISINFECTANT**

**KILLS OVER 99.99 % OF GERMS
MADE WITH NATURAL INGREDIENTS
CONTAINS NO CHLORINES , PHENOLS,
QUATS , OR OTHER SYNTHETIC CHEMICALS**

HMIS Rating		GHS classification ratings order of severity differ from NFPA and HMIS	
HEALTH	0	HMIS/NFPA Hazard Ratings	GHS Hazard Categories
FLAMMABILITY	0	0= Minimal Hazard	Cat 1 ~ Severe Hazard
PHYSICAL HAZARD	0	1= Slight Hazard	Cat 2 ~ Serious Hazard
PERSONAL PROTECTION	B	2= Moderate Hazard	Cat 3 ~ Moderate Hazard
		3= Serious Hazard	Cat 4 ~ Slight Hazard
		4= Severe Hazard	Cat 5 ~ Minimal Hazard

DISCLAIMER : This document is intended to provide a brief summary of our present knowledge and guidance regarding the use of this material . The information set forth herein has been compiled from sources to be dependable and is believed to be accurate as of the date of issuance . This information is offered in good faith by HEALTHY CLEAN BUILDINGS and no warranty, expressed or implied, is made . The user assumes all liability for any damage or injury resulting from misuse, from any failure to adhere to recommended practices according to product label (and such), or from any hazards inherent in the nature of the product . This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contracted relationship.

Footnotes : CALC-Calculated; COR-Corrosive; CS-Cancer Suspect Agent; EST-Estimated; HMIS-Hazardous Material Identification System; NA-Not Applicable; ND-No Data ; NE – Data Not Established; OX- Oxidizer; PEL-Permissible Exposure Limit; PPI-Personal Protection Index ; STEL-Short Time Exposure Limit; TLV-Threshold Limit Value; TWA-Time Weighted Average