



CleanTransit™

GETTING THERE SAFER.

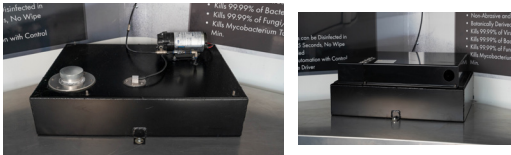
CLEANER SPACES, CONTINUOUS PROTECTION.

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CLEANTRANSIT™ GETTING THERE SAFER.



Clean Transit™ Automated Infection Control System ACTIVATE AND WALK AWAY! NO WIPE DOWN!

Highlights

- **Mounting:** Under the Seat or Rear of Vehicle
- **Design:** Self-Contained System with Nozzles Installed in Existing Light Bar/Wire Channel, 5 or 10 Gallon Reservoir

The Clean Transit™ Automated Infection Control System is a patented*, on-demand misting system combined with plant-based disinfectant that allows a proven and consistent method of cleaning transit vehicles. The automation dramatically decreases labor costs and eliminates the chance for human error in cleaning, providing economical, thorough and continuous protection for your drivers and passengers.

Disinfectant Solution



Clean Transit™ is designed for use with ThymoCide Botanical Disinfectant:

- EPA Registered
- Kills 99.99% of Viruses, Bacteria, Fungi & Molds Within Minutes

- Laboratory-Tested for Efficacy
- Disinfect, Sanitize, Clean and Deodorize in ONE Step
- Non-Combustible Liquid
- Non-Abrasive and Non-Corrosive
- Botanically Derived Active Ingredient
- Kills 99.99% of Viruses in 1 min.
- Kills 99.99% of Bacteria in 2 min.
- Kills 99.99% of Fungi/Molds in 3 min.
- Kills Mycobacterium Tuberculosis in 3 min.

Design

Self-contained system is permanently mounted under the seat with connections to nozzles mounted in existing light/wire bar.

- 12 volt powered
- Up to 40 days of disinfectant on-board
- Constructed of aircraft aluminum for a long lifespan and rugged durability

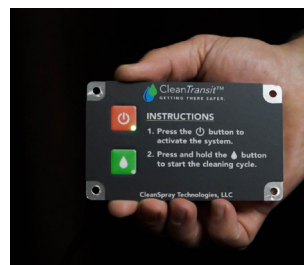
Benefits

- Fleet of vehicles can be disinfected in as little as 10 seconds, no wipe down needed
- Specialty design for transit vehicle layout, all sizes including special needs
- On-board automation by the press of a button, with control panel mounted above the driver's seat

3-YEAR LIMITED WARRANTY



5-Gallon Reservoir mounted under seat



Easy-to-Operate Controller



Disinfects Air and Surfaces

*patent# 11,413,365



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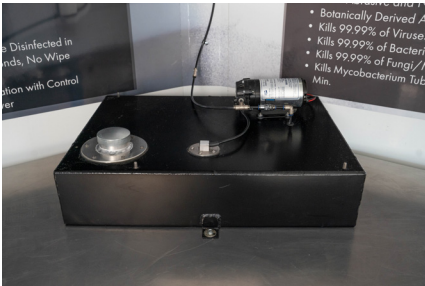
Clean *Transit*™ System Specifications

- Patent pending
- Onboard spray/fogging infection control system designed to disinfect air and high touch surfaces
- 3-Year Limited Parts Warranty; optional lifetime warranty (life of vehicle)
- Custom designed electronics for transportation industry – school buses, transit vehicles and trains
 - o Extremely low stand-by current draw – will not drain batteries when off
 - o 2-step activation procedure to prevent accidental operation
 - o 30 second start delay allowing operator time to exit the vehicle
 - o Configurable spray time from 10 to 60 seconds, custom times are available
 - o System monitoring with short circuit protection and system shutdown
 - o (Configurable) Ignition on or cut-off operation
- System will operate with ignition signal
- System will cut-off with ignition signal
 - o (Optional) Event tracking with date and time stamp to track operation
- Simple and intuitive operator control panel
 - o Low profile membrane switch panel with > 1,000,000 button activations
 - o LED lights indicate system and operational status
- Simple error codes to help technician troubleshoot system operation
- Low fluid level indicator
- Low operating pressure indicator
- Reservoir tank made from air-craft aluminum for rugged durability – 5-gallon and 10-gallon options
- Cover and optional kick plate to prevent tampering with equipment while allowing access to fill neck
- (Optional) Arctic package which allows system to operate in extreme cold environments
- Maintenance Free 12 Volt DC 200 PSI pump
 - o Diaphragm pump with Santoprene construction
 - o Self-priming pump with dry run protection
 - o Made in the USA
- Electronic fluid level sensor built into tank
- Easy-fill vented cap
- Limited drip stainless steel spray nozzles
- Proprietary nozzle holders designed to hold nozzle in fixed position for optimal spray
- ¼ inch high pressure flexible tubing with push connect fittings
- Installed in existing wire/light bar for clean, easy installation and service; factory installed appearance
- Uses specially formulated botanical disinfectant
 - o Will not harm driver or passengers
 - o Requires no wipe down
 - o No residue
 - o Starts disinfecting in as little as 10 seconds
 - o Non-flammable liquid



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SYSTEM PARTS



10-Gallon System (uncovered)



User-friendly controller with built-in safety features



Hard cover to prevent physical damage or tampering



Fluid level sensor



Fuel-style vented lid



Custom-built 12 volt diaphragm pump



Lockable access door for easy refill



Proprietary nozzle holder to ensure thorough coverage



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CLEANER SPACES, CONTINUOUS PROTECTION.

THYMO-CIDE™ PLANT-BASED DISINFECTANT



KILLS 99.9% OF
HOUSEHOLD GERMS



EPA LIST N
APPROVED



HOSPITAL
GRADE



LOW
TOXICITY



QUAT AND
BLEACH FREE

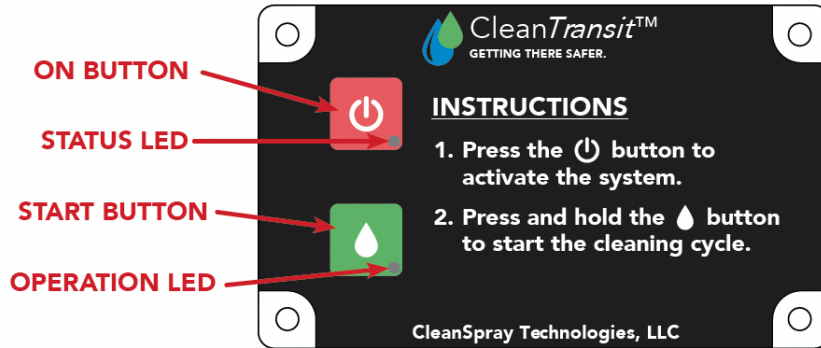
RTU Thymo-Cide delivers one-step cleaning, disinfecting and deodorizing in a non-irritating formulation and convenient, ready-to-use format. The Thymol-based solution provides broad-spectrum germicidal efficacy—without the potentially harmful effects of quats, bleach or other chemical disinfectants.

- **Approved by the U.S. EPA for use on hard non-porous surfaces against the SARS-CoV-2 virus (COVID-19) in just 55 seconds**
- Is a one-step cleaner with bactericidal, virucidal, tuberculocidal and fungicidal claims.
- Is a broad-spectrum disinfectant registered with the Environmental Protection Agency.
- Cleans, disinfects, and deodorizes a wide array of surfaces.
- Eliminates malodors
- Is nonabrasive, environmentally friendly and ideal for everyday use
- Contains no chlorine, phosphates, QUATs or other harsh chemicals.
- Does not require the use of personal protective equipment.
- Is effective in restoration and remediation situations.
- **Laboratory tested for effectiveness***



CLEAN *TRANSIT*™ GETTING THERE SAFER.

Clean *Transit*™ Operator Control Panel



STEP #1 - Press the ON button



STEP #2 - Check Status LED Code (Page 2)



STEP #3 - Press and hold START button



STEP #4 - Exit vehicle when LEDs flashing



STEP #5 - System automatically disinfects











STEP #6 - Check Operational LED Code (Page 2)



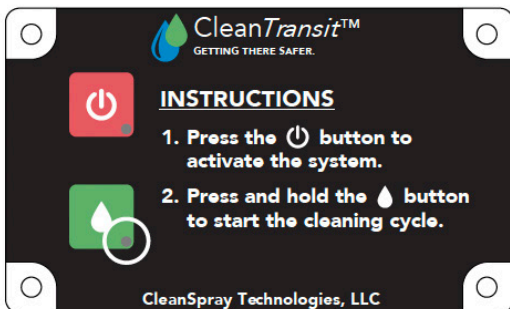
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Clean *Transit*™ Status LED Codes



	Solid Green	- System Ready
	Solid Yellow	- Tank Level less than half full
	Solid Red	- Tank Level low (will not operate)
	Red Flash (1x)	- Error, Motor disconnected
	Red Flash (2x)	- Error, System needs prime
	Red Flash (3x)	- Error, Motor failure
	Red Flash (4x)	- Error, Level sensor disconnected
	Red Flash (5x)	- Error, Level sensor shorted

Clean *Transit*™ Operational LED Codes



	Green Flash (1x)	- Automated disinfecting running
	Solid Green	- Automated disinfecting complete
	Solid Red	- Automated disinfecting failure

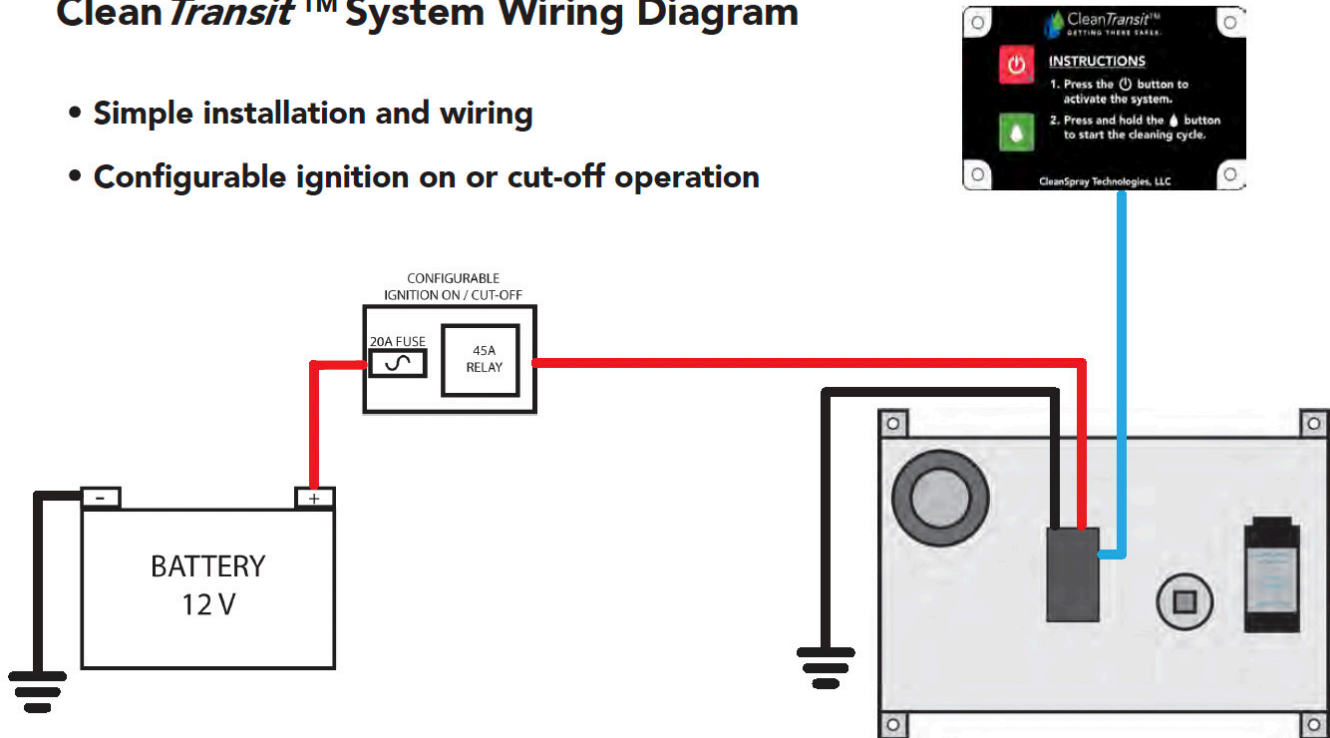
- See status LED flash codes for failure reasons



CLEAN *TRANSIT*™ GETTING THERE SAFER.

Clean *Transit*™ System Wiring Diagram

- Simple installation and wiring
- Configurable ignition on or cut-off operation





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CleanTransit Air Precipitation Test

The Problem.

The most common pathogen transfer routes can be broken down into one of three methods: 1) mouth-to-hand-to-surface; 2) cough or sneeze to hand and/or surface, and 3) the fecal-oral route due to improper hygiene. The spread of pathogens via these routes to a surface and then to another person through touching the infected surface and then touching their face, eyes, mouth, or nose, is well documented. Hence, the emphasis on disinfection and decontamination of surfaces, especially in public spaces, and on proper hand washing.

However, there can also be airborne transmission of viral pathogens through inhalation of cough and sneeze droplets. In fact, COVID-19 has been shown to stay airborne for up to two hours and has been associated with infections from just breathing out or expelling air through singing as seen in disease transmission amongst choir members. Current technologies focus on manual wipe down of high-touch surfaces with a disinfectant or a variety of electrostatic sprayers and foggers (most are backpack versions) that are designed to target hard surfaces and surrounding areas. In fact, most advertisements show these sprayers and foggers being pointed at school desks, theater chairs, and other ground level structures. This type of application does very little to cover much above 6 feet and, even if sprayed into the air, will still not be effective in covering all areas of room atmosphere, especially in rooms with high ceilings like restaurants or gyms.

The Solution

The CleanTransit Automated Infection Control System is different. Our fixed mounted system is designed to clean the entire air column within a room, bus, or train. The fine mist and placement of nozzles is designed to cover all surfaces within the space, including the air column. The theory is that anything in the air will be bound to the disinfectant mist droplets and precipitated from the air. A thorough investigation of available particle sizes revealed that carbon black is approximately the same size as COVID viral particles, and hence chosen for our test.

The Proof

In order to prove our theory, a sealed test chamber was constructed and fitted with the same nozzles used with the CleanTransit system. Test sprays were conducted to insure nozzle placement and length of spray time mimicked that seen with systems installed on a bus or in a room. On one end of the chamber, a 4" duct was installed to which a 4" high velocity dispersion fan was fitted. A 90° elbow was attached to the fan intake so carbon black could be easily added to the system. With the system ready and fan running, one teaspoon of carbon black was poured into the fan intake and immediately dispersed throughout the test chamber. One teaspoon of carbon black created a thick, dark cloud throughout the chamber. The spray system was immediately activated and a timer started; within 25 seconds, the air within the chamber was clear and carbon black residue was observed in the bottom of the test chamber. What can be stated unequivocally is that in under 30 seconds, particle cloud thick enough to block visibility within the chamber was cleared with the activation of the CleanTransit system. Had these been actual viral particles, they would have been removed from the breathable air, bound by the disinfectant, and killed within 2 minutes to prevent the spread of infection.

Dr. Richard Cooper, PHD, Microbiologist
Chief Science Officer
CleanSpray Technologies, LLC





THYMO-CIDE TEST FINDINGS

Initial Disinfectant Kill Test

To assess the ability of Thymo-Cide to kill three species of bacteria, *Salmonella enterica* (ATCC/70021889/13048), *Staphylococcus aureus* (ATCC/70023822/6538), and *Pseudomonas aeruginosa* (ATCC/70016308/15442). For comparison, another disinfectant (Brand X) containing thymol was used as a control since we had previously tested the product in our laboratory.

Bacterial Culture

All three of the bacterial species tested are virulent human pathogens with multi-drug resistant variants found in each species. For these experiments, a single colony grown overnight on Brain Heart Infusion (BHI) agar plates was picked to 5 ml of BHI broth, placed in a 37 C shaking incubator, and grown overnight. The cultures were precipitated by centrifugation at 4,510 x g in a benchtop Sorval ST 16R refrigerated centrifuge. Spent media was removed and the bacterial pellet resuspended in 10 ml sterile 1x phosphate buffered saline (PBS) to approximate a McFarland std of 0.5. The resuspended culture had approximately 5×10^7 CFU/ml and was stored in the refrigerator until needed.

Experimental Test and Design

Three disinfectants were tested in this experiment: A) Thymo-Cide lemon-bergamot scent (D-1), B) Thymo-Cide lavender cucumber (D-2), C) Brand X (D-3), and D) PBS control. For each disinfectant, 15 ml tubes were labeled with the disinfectant name and dilution of the compound ranging from 100% to 0.5%. A total of 15 tubes were used per disinfectant (see Table 1). To stress the system, growth media was used as a diluent to encourage growth in the event of solution failure.

Once all dilutions were made, 100 μ l of 5×10^7 CFU/ml Salmonella in PBS was added to each tube and all tubes placed in a 37 C shaking incubator overnight. After 20 h of incubation, a 10 μ l aliquot from each tube was transferred to an BHI agar plate fitted with grid lines and a number corresponding to the tube number. Plates were incubated overnight at 37 C (20 h) and growth/no growth was recorded.

Table 1. The dilutions listed below were replicated for each disinfectant.

Compound	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Disinfectant	100	90	80	70	60	50	40	30	20	10	0	50	25	10	5
Media	0	10	20	30	40	50	60	70	80	90	100	950	975	990	995

Results

Of the compounds tested, all three killed each bacterial species within 2 minutes, while the PBS control resulted in a solid lawn of bacteria. The Wexford product label states that It will kill viruses and bacteria within 5 minutes, however, against these three bacterial species, we demonstrated a much quicker kill time.





Bus Seat test using three disinfectants

In order to determine the killing ability of D-1, D-2, and D-3, an experiment was set up using *S. enterica*, *S. aureus*, and *Ps. aeruginosa* as the test organisms on a typical vinyl covered bus seat, the type found on school buses used for K-12 transportation. The experiment was designed to test the killing ability of disinfectants on the bus seat, when exposed to bacterial pathogens on the bus seat followed by disinfectant treatment.

Test organisms

First, a 5 ml culture of each bacterial isolate inoculated in brain-heart-infusion broth was grown at 37 C overnight in a shaking incubator. The culture was then precipitated by centrifugation at 4,510 x g in a benchtop Sorval ST 16R refrigerated centrifuge. Spent media was removed and the bacterial pellet resuspended in sterile 1x phosphate buffered saline (PBS). The resuspended culture had approximately 5×10^7 CFU/ml and was stored in the refrigerator until needed.

Experimental Test and Design

A vinyl covered bus seat was divided into two, 12 grid sections, with each section measuring approximately 2" x 2". Each section was labeled either P (positive control), D-1, D-2, or D-3. The first 12 grids were treated as follows: three untreated control sections, three sections swabbed until wet with either Di1, D-2, or D-3. The grid was allowed to air dry for approximately 30 minutes.

The second grid was laid out identically to the first grid, but swabbed until wet with a bacterial species suspended in PBS. The grid was allowed to air dry for approximately 30 minutes.

Product Application

The grid to which disinfectant was applied first was swabbed until wet with the bacteria being tested, whereas the second grid was swabbed with the disinfectant appropriate to the section until wet. A separate, sterile, cotton tipped applicator was used for each grid section in order to avoid cross-contamination. Each grid was allowed 15 minutes of contact time to allow the disinfectant to kill the bacteria.

Culture method

Each grid section was swabbed with a separate, sterile, cotton tipped applicator, which was then used to inoculate a BHI agar plate supplemented. Each plate was divided into 4 sections, and each $\frac{1}{4}$ was labeled with P, D-1, D-2, or D-3. The $\frac{1}{4}$ labeled with the corresponding test section was swabbed to check for bacterial growth. Once plates were inoculated, they were placed in a stationary 37 C incubator overnight.

P	D-1	D-2	D-1
D-3	D-2	P	D-3
D-2	D-3	D-1	P

Results

Wexford's Thymo-Cide does a much better job at wetting the vinyl seat surface compared to Brand X, and it did not foam as much when applied. We obtained consistent data between the replicates for each treatment. Not surprisingly, applying the disinfectant over the Salmonella-





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contaminated seat yielded the best kill rate for all treatment groups, which mimics the scenario most likely found in public transportation, i.e., disinfecting after contamination. In the disinfectant-over-bacteria group, the D-1 and D-2 yielded excellent kill rates after 15 minutes of exposure, with the D-3 performing killing goodequally well, but not dispersing as good on the surface.

Discussion

The data presented above demonstrates that Thymo-Cide is a very effective disinfectant capable of killing bacterial species that are difficult to eliminate and have representative isolates that are multi-drug resistant. Through these experiments, we were able to demonstrate a quicker kill time than advertised by Wexford Labs. The non-foamy properties of the disinfectant will make filling reservoir tanks much easier since breaks will not have to be taken to allow the foam to settle. The superior wetting capability of Thymo-Cide will ensure prolonged contact time on surfaces to be disinfected. In addition, the odor is much less pungent than Brand X and has a wider variety of scents from which to choose.

One of our goals at CleanSpray is to continue researching and developing the most environmentally and passenger-friendly effective disinfectants available. We approach our products with a goal of passenger protection from harmful pathogens and chemicals because our children and grandchildren ride these buses too.





TECHNICAL DATA



READY TO USE THYMO-CIDE

A ONE-STEP CLEANER DISINFECTANT EPA REGISTRATION NUMBER 34810-25

GERMICIDAL QUALIFICATIONS: (AOAC Use Dilution Confirmation) in the presence of organic matter (5% blood serum): Staphylococcus aureus, Salmonella choleraesuis, Pseudomonas aeruginosa.

ADDITIONAL ORGANISMS that passed the AOAC use dilution confirmation in the presence of organic matter (5% blood serum): Methicillin resistant Staphylococcus aureus (MSRA), Methicillin resistant Staphylococcus epidermidis (MRSE), Tetracycline, Novobiocin Streptomycin resistant Staphylococcus aureus (TNSR), Gentamicin, Methacillin resistant Staphylococcus aureus (GRM), Penicillin resistant Staphylococcus (PR), Enterococcus faecalis VRE.

TUBERCULOCIDAL ACTIVITY TEST: AOAC, Mycobacterium Tuberculosis

FUNGICIDAL TEST: AOAC, Trichophyton Mentagrophytes

VIRUCIDAL ACTIVITY TEST: Influenza A3 (Hong Kong), Herpes Simplex Types 2, Vaccinia virus, and Human immunodeficiency virus Type 1 (AIDS), Rotavirus, Respiratory Syncytial virus.

EFFICACY IN THE PRESENCE OF ORGANIC MATTER: All of the above tests were performed in the presence of organic soil (5% blood serum).

EYE IRRITATION LEVEL: As the term is defined by the Federal Hazardous Substances Act (FHSA) Ready To Use Thymo-Cide is not an eye irritant. The EPA Toxicity Indicator for primary ocular irritation is best described as Category IV -- No corneal involvement or irritation.

SKIN IRRITATION LEVEL: Not a primary skin irritant as defined by the Federal Hazardous Substances Act (FHSA). EPA Toxicity Indicator is best described as Category IV -- No irritation test score 0.00.

ORAL TOXICITY: Not a toxic substance as defined by the Federal Hazardous Substances Act (FHSA).

DETERGENT TYPE:Synthetic-Biodegradable

APPEARANCE: Cloudy opalescent liquid

CLEANING EFFICIENCY:Excellent

pH3.10-4.30

NOTE 1: OSHA requires that individuals decontaminating surfaces contaminated by blood or other infectious agents must wear appropriate personal protection equipment, including gloves, during the cleaning of blood or other potentially infectious materials and during decontamination procedures.

NOTE 2: Although Ready To Use Thymo-Cide is classified as neither an eye irritant nor a primary skin irritant, contacting eye or skin tissue with an antimicrobial agent should be avoided. Should contact occur, rinse with water. Should irritation persist, contact a physician.

READY TO USE THYMO-CIDE

A One-Step Cleaner Disinfectant

- A powerful one-step cleaner, disinfectant and deodorizer
- Use for disinfection of all hard, non-porous surfaces in Healthcare Facilities including Operating Rooms, Intensive Care, Nurseries, Emergency Areas and Dental Operatories
- Recommended for use by Educational and other Institutional Facilities as well as Police and EMS to decontaminate hard inanimate surfaces that have the potential to be contaminated by blood or other potentially infectious material (OPIM)
- Easy to use non-aerosol dispensing cap on bottle
- Totally broad spectrum: TUBERCULOCODAL, GERMICIDAL, PSEUDOMONALCIDAL, FUNGICIDAL AND VIRUCIDAL (see additional technical data on back page)
- Effective in blood serum: Product is effective in the presence of organic soil such as 5% blood serum are classified as one step cleaner/disinfectants
- Effective against antibiotic resistant organisms, including MRSA & MRSE
- Excellent cleaner/detergent DO NOT MIX WITH OTHER CLEANERS
- Meets the current OSHA requirements for cleaning and decontaminating spills of blood and other potentially infectious material (OPIM)



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(800) 506-1146

1. IDENTIFICATION**Product identifier****Product Name** Ready To Use Thymo-Cide**Other means of identification****Product code** 2121-02**Recommended use of the chemical and restrictions on use****Recommended Use** Disinfectant, Deodorizer, Cleaner**Details of the supplier of the safety data sheet****Supplier Address**
325 Leffingwell Avenue
Kirkwood, MO 63122**Manufacturer Address**
325 Leffingwell Avenue
Kirkwood, MO 63122**Emergency telephone number****Company Phone Number** 314-966-4134
US Toll-free: 800-506-1146
24 Hour Emergency Phone Number Chemtrec:(800) 424-9300
Emergency Telephone**2. HAZARD IDENTIFICATION****EMERGENCY OVERVIEW:**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Principle routes of exposure: Eye contact. Skin contact. Inhalation. Ingestion.**Potential Health Effects****Acute toxicity****Eyes: May cause irritation with direct contact.**
EPA toxicity category for ocular irritation is Class IV –no irritation**Skin** Not irritating to the skin.**Inhalation** May cause irritation, not expected when used as directed.**Ingestion** Ingestion of large quantities may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**Chronic Effects** No known effect based on information supplied.**Aggravated Medical Conditions** Preexisting eye disorders. Skin disorders. Respiratory disorders.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight %
Thymol	89-83-8	0.051

4. FIRST AID MEASURES

General advice Show this material safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

Eye contact Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician if irritation develops or persists.

Skin contact Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists. If skin irritation persists, call a physician.

Inhalation No specific first aid measures are required

Ingestion No specific first aid measures are required.

Notes to physician All treatments should be based on observed signs/symptoms of distress in the patient. The possibility of overexposure to materials other than this product should be considered.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not Flammable Liquid

Flash point: (Pensky-Martens Closed Cup) None to boiling

Suitable extinguishing media: Suitable to origin of fire.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Use appropriate containment to avoid environmental contamination. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Keep in suitable and closed containers for disposal. Use a water rinse for final clean-up

7. HANDLING AND STORAGE

Handling Procedures: Do not contaminate food, feed, or water by storage or disposal. No special handling requirements.

Storage Requirements: Keep container closed when not in use. Store at room temperature. Keep from freezing. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: None normally required. No special ventilation requirements.

Personal Protective Equipment:

Hand Protection None required.

Eye/Face Protection No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection None required.

Hygiene measures: When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid

Odor Thymol

Color Cloudy opalescent liquid

Explosive properties no data available

Other information

Volatile organic compounds (VOC) content: <.25%

Melting/freezing point: As water

Property Values

pH 3.10-4.30

Boiling point/boiling range over 212 F

Flash Point None to Boiling

Evaporation rate no data available, as water

Vapor density no data available

Specific Gravity (water =1) 0.99 -1.01

Water solubility Soluble in water

10. STABILITY AND REACTIVITY

Stability/Reactivity Stable under recommended storage conditions.

Incompatible products None known based on information supplied.

Conditions to Avoid None known based on information supplied.

Hazardous Decomposition Products None

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD50 (rat) > 5 g/kg body weight

Dermal LD50 (rabbit) > 5 g/kg body weight

Inhalation LC50 (of 256 concentrate) > 5.65 mg/liter for 4 hours

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Persistence and degradability: No known or expected environmental concerns

Bioaccumulative potential No known or expected environmental concerns.

Mobility No known or expected environmental concerns.

Other adverse effects No known or expected environmental concerns.

13. DISPOSAL INFORMATION**Waste treatment methods**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORTATION INFORMATION

DOT Not Regulated as Dangerous Goods

TDG Not Regulated as Dangerous Goods

MEX Not Regulated as Dangerous Goods

IATA Not Regulated as Dangerous Goods

IMDG Not Regulated as Dangerous Goods

Marine pollutant This product is not a marine pollutant according to IMDG/IMO

15. REGULATORY INFORMATION

HMIS CLASSIFICATION (H, F, R, PE): 0,0,0, NONE

WHMIS Classification (Canada): **Non-Hazardous** under **WHMIS**

International Inventories

TSCA	Complies
DSL/NDSL	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

International Regulations**Canada**

This product when tested as a whole is not a controlled substance within the meaning of the Hazardous Products Act. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

NFPA	Health hazard 0	Flammability 0	Stability/Reactivity 0	Physical and chemical hazards 0
HMIS	Health Hazard 0	Flammability 0	Physical Hazard 0	Personal protection None

Revision Date 14-Jun-2018

Revision Note
No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet