

EPA-REGISTERED DISINFECTANT

listed by CDC and EPA as Suitable for Emerging Viral Pathogens

INCLUDING COVID-19

WHAT MAKES IT DIFFERENT?

- Because it is known to effectively kill enveloped viruses such as Norovirus, the EPA suggests **only a 4-minute dwell time on surfaces to tackle COVID-19****
- NSF Certified—No rinsing required, even for food contact surfaces
- Easy to use and safe for people, pets and the planet

KEY FEATURES	HOW FAST IT WORKS	WHERE
<p>Kills 99.9% of Bacteria, Viruses*, Fungi & Molds</p> <p>4-in-1 Disinfect + Sanitize + Clean + Deodorize</p> <p>Biodegradable, Ready-to-Use Formula</p> <p>Sanitizes soft surfaces in just 2 minutes</p> <p>Eliminates 99.9% of most Allergens upon contact</p> <p>Works with sprayers and foggers</p> <p>Kills Bacteria that can cause food poisoning</p> <p>Reapplication does not accumulate toxicity</p> <p>No need to clear area of people/pets when applying</p>	<p>2 minutes</p> <p>BACTERIA - KILLS 99.99%</p> <p>Staph</p> <p>Salmonella</p> <p>Pseudomonas</p> <p>Listeria</p> <p>E. coli</p> <p>Streptococcus</p> <p>MRSA</p> <p>Klebsiella pneumoniae</p>	<p>Hospitals</p> <p>Nursing Homes</p> <p>Cruise Ships</p> <p>Farms</p> <p>Crawl Spaces</p> <p>Automotive</p> <p>Public Transportation</p> <p>Military Installations</p> <p>Common Areas</p> <p>Public Restrooms</p> <p>Retail Stores</p>
<p>WHY IT'S SAFER</p> <p>Non-Abrasive</p> <p>Non-Corrosive</p> <p>Non-Flammable</p> <p>No Bleach or Harmful Chemicals</p> <p>No Chlorine and Phosphates</p> <p>No PPE Needed (Personal Protective Equipment)</p> <p>Botanically-Derived Active Ingredient</p> <p>Safe for Use on Water Mitigation</p>	<p>3 minutes</p> <p>FUNGI & MOLDS - KILLS 99.99%</p> <p>Athlete's Foot Fungus</p> <p>BACTERIA - Tuberculosis</p>	<p>WHAT</p> <p>Trash Cans</p> <p>Floors</p> <p>Appliance Exteriors</p> <p>Door Handles</p> <p>Hard Surfaces</p> <p>Toilet Seats</p> <p>Walls</p> <p>Windows</p> <p>Tables</p> <p>Doors</p> <p>Metal</p> <p>Glazed Ceramic</p> <p>Glazed Porcelain</p> <p>Steel</p> <p>Stainless Steel</p> <p>Brass</p> <p>Aluminum</p> <p>Sealed Concrete</p> <p>Plastic</p> <p>Polypropylene</p> <p>Polystyrene</p> <p>Polyethylene</p> <p>PVC</p>
	<p>4 minutes</p> <p>KILLS 99.99%</p> <p>Norovirus</p> <p>Recommended for COVID-19**</p>	

*Virucidal according to the ASTM Standard Test Method for Efficacy of Virucidal Agents
**Reference EPA Tier 1 Emerging Viral Pathogen Guidance for Antimicrobial Pesticides list, March 25, 2020

BOTANICAL DISINFECTANT SOLUTION

PROFESSIONAL GRADE

FEATURES

- US EPA Registered Broad-Spectrum Disinfectant
- Kills Cold & Flu Viruses
- Kills Norovirus in just 4 Minutes
- Kills 99.9% of Bacteria, Viruses*, Fungi & Molds
- Bactericidal, Virucidal*, Tuberculocidal, and Fungicidal**
- Disinfect, Sanitize, Clean, and Deodorize in ONE STEP
- Kills, Destroys and Eliminates Household Germs
- No Rinse Required, even on food contact surfaces
- Sanitizes Soft Surfaces in just 2 minutes
- Eliminates 99.9% of most Allergens* upon contact
- Formulated for use with Mechanical, manual, or battery/power operated sprayers
- Kills Odor Causing Bacteria
- Kills Bacteria that can cause food poisoning
- One-step Hospital Disinfectant and Cleaner

- Non-Abrasive and Non-Corrosive
- Non-Flammable - No Harmful Chemicals
- Cleans and Disinfects without Bleaching
- Free from Chlorine and Phosphates
- No Signal Words or Warnings Needed
- No Personal Protective Equipment (PPE) Needed
- Heavy Duty Cleaner and Disinfectant
- Ready-to-Use Formula
- Pleasant Lemongrass Grapefruit Scent
- Botanically Derived Active Ingredient
- Formulated with Patented Technology
- Safe for Use on Water Mitigation (Sewage Back Up, Water Damage)
- Meets Sustainable Purchasing Requirements for LEED Credits

RECOMMENDED FOR USE IN

- | | | |
|------------------------|----------------------------|--------------------------|
| Schools | Food Processing Plants | Automotive |
| Day Care Centers | Restaurants | Public Transportation |
| Colleges & Dorms | Cafeterias | Institutional Facilities |
| Classrooms | Clinics | Correctional Facilities |
| Nurseries | Health Care Facilities | Military Installations |
| Churches | Medical and Dental Offices | Offices |
| Hospitals | Veterinary Premises | Athletic Facilities |
| Aging Care Facilities | Farms | Multi-Family Housing |
| Nursing Homes | Crawl Spaces | Residential Housing |
| Ambulances | Attics | Commercial Real Estate |
| Surgery Centers | Basements | Common Areas |
| Airports | Tanning Salons | Public Restrooms |
| Cruise Ships | Barber Shops | Hotels and Motels |
| Institutional Kitchens | Public Buildings | Retail Stores |



**30
SEC**
KILL TIME

**SANITIZING
KILLS > 99.99%**

Staphylococcus aureus
Enterobacter aerogenes

**1
MIN**
KILL TIME

**VIRUSES
KILLS 99.99%**

Swine Influenza A (H1N1)
HIV-1 AIDS Virus
Human Coronavirus
Respiratory Syncytial Virus (RSV)
**4 Minute Kill Time: Norovirus
COVID-19 (Coronavirus Disease 2019)**

**2
MIN**
KILL TIME

**BACTERIA
KILLS 99.99%**

Staphylococcus aureus (Staph)
Salmonella enterica (Salmonella)
Pseudomonas aeruginosa (Pseudomonas)
Listeria monocytogenes (Listeria)
Escherichia coli (E. coli)
Escherichia coli (E. coli O157:H7)
Streptococcus suis (Streptococcus)
Vancomycin-Resistant Enterococcus (VRE)
Methicillin-Resistant Staphylococcus Aureus (MRSA)
Klebsiella pneumoniae
3 Minute Kill Time:
Mycobacterium Bovis BCG (TB; Tuberculosis)

**3
MIN**
KILL TIME

**FUNGI & MOLDS
KILLS 99.99%**

Trichophyton mentagrophytes
(Athlete's Foot Fungus)
Candida albicans

BOTANICAL DISINFECTANT SOLUTION

DIRECTIONS FOR USE

TO DISINFECT: For use on hard nonporous surfaces. Spot test to check compatibility with the surface. Spray to thoroughly wet the surface to be disinfected. Surfaces must remain wet for 1 minute to eliminate viruses*, 2 minutes to eliminate bacteria, 3 minutes to eliminate fungi and M.bovis BCG (TB), and to disinfect Norovirus, let stand for 4 minutes. Allow to air dry. If desired, wipe dry. No rinse required, even on food contact surfaces.

TO SANITIZE: Spray to thoroughly wet the surface to be sanitized. Surfaces must remain wet for 30 seconds on hard nonporous surfaces and 2 minutes for soft surfaces.

TO SANITIZE PRECLEANED FOOD-CONTACT SURFACES: Spray to thoroughly wet the surface. Allow surface to remain wet for 60 seconds and air dry. No rinsing required.

TO CLEAN, DEODORIZE & REMOVE ALLERGENS[§]: Spray the product on surface and wipe clean. To remove heavy soil let stand a few minutes and wipe clean. For soft surfaces; spray to wet surface and wipe or blot to clean. Always test an inconspicuous area first. [§]This product removes the following allergens: dust mite matter, cat dander, dog dander, mouse dander, rat dander, guinea pig dander, cockroach matter, peanut, birch pollen, timothy grass pollen, rag weed pollen.

TO CLEAN VIA FOGGING: This product can be applied effectively with a ULV fogger as a supplement to normal cleaning procedures on restoration and remediation projects in confined, vacant areas of schools, healthcare facilities, and in HVAC systems as well other vacant, indoor areas. It is effective for pre-cleaning or as a supplement to final cleaning. Do not dilute. This product is ready-to-use in ULV foggers. Seal off doors and windows in the area prior to fogging. After fogging, vacate the treated area during the treatment interval as specified by the device manufacturer, and do not re-enter the treated area until all fog has settled or been exhausted. After the treatment interval, ventilate the treated area until the air is purged of all suspended product. Do not operate equipment in the fogged area until the treatment is dry. When fogging as a pre-treatment, follow the cleaning and disinfection procedures on the product label.

*** Always refer back to the product label for comprehensive Disinfecting instructions. ***

SUITABLE FOR USE ON

Countertops
Stovetops
Refrigerator Exteriors
Trash Cans
Floors
Appliance Exteriors
Telephones
Door Handles
Hard, Non-Porous Surfaces
Toilet Seats
Bathtubs
Shower/Bath Areas
Vanities
Walls
Windows

Mirrors
Hard Sporting Equipment
Cups/Helmets
Examination Tables
Patient Chairs
Tables
Doors
Baby Furniture
Changing Tables
Cribs
Highchairs
Metal
Glazed Ceramic
Glazed Porcelain
Glazed Enameled Surfaces

Glass
Sealed Marble
Steel
Stainless Steel
Brass
Aluminum
Sealed Concrete
Plastic
Polypropylene
Polystyrene
Polyethylene
PVC
Glazed Tile
Sealed Fiberglass
CPAP Systems

*Virucidal according to the ASTM Standard Test Method for Efficacy of Virucidal Agents

** Fungicidal according to the AOAC Germicidal Spray Method: [§]Removes the following allergens: dust mite matter, cat dander, dog dander, mouse dander, rat dander, guinea pig dander, cockroach matter, peanut, birch pollen, timothy grass pollen.



Distributed By: TeleSwivel, LLC | Dave Woolf, 919-623-2031, dwoolf@teleswivel.com

Environmental/Hazard-Free:



U.S. EPA REGISTERED



BOTANICALLY DERIVED ACTIVE



NO HARMFUL CHEMICALS



NON-TOXIC



NPE-FREE



NON-CORROSIVE



NON-FLAMMABLE



BIODEGRADABLE



Available in:

10ML Pen Sprayers: BBD10ML

4 Ounces - BBDS4OZ

1 Quart - BBDSQ

1 Gallon - BBDSG

5 Gallon - BBDS5G

55 Gallon - BBDS55G

SAFETY DATA SHEET

SECTION 1 : PRODUCT IDENTIFICATION



Product Name : Bioesque Botanical Disinfectant Solution

Product Use : Surface Disinfectant

Scent: Lemongrass Grapefruit

Supplier: Natureal, LLC

Address: 150 East Palmetto Park Road, Suite 150, Boca Raton, FL 33432

Telephone: 954-895-7867

Emergency phone: (866) 898-0697

E-Mail: info@bioesquesolutions.com

Web site: www.bioesquesolutions.com

SECTION 2 : HAZARD IDENTIFICATION

WHMIS Class : Exempt

TSCA: All the ingredients are listed or exempt from listing on the Chemical Substance Inventory.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Wt %</u>	<u>TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
Thymol	89-83-8	0.23	N/A	N/A	980 mg/Kg (oral, rat)

SECTION 4 : FIRST AID MEASURES

Eye: Remove contact lenses. Rinse with plenty of water for several minutes, keeping eyelids open.

Skin: Rinse with water. Remove spoiled clothes and wash before wearing.

Inhalation : N/A

Ingestion: Seek medical attention if large quantities are ingested.

SECTION 5 : FIRE FIGHTING MEASURES

Flammability : No

Flash Point (ASTM D-93, °C) : >100

Hazardous Combustion Products: Carbon oxides, sulfur oxides.

Suitable extinguishing media: As per surrounding fire.

Special Fire Fighting Procedure: As per surrounding fire.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Stop leak, Rinse to drain or absorb with non-reactive adsorbent and dispose according to existing federal, state, provincial and municipal regulations. Resume cleaning by rinsing with water.

SECTION 7 : HANDLING AND STORAGE

Handling: Follow standard safe handling of materials. Keep out of reach of children.

Storage Requirements: Keep in original tightly closed containers, in a room below 30 °C.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Follow standard safe handling of materials.

SECTION 9 : PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (°C) : 100
Vapor Pressure (mm Hg) : N/A
Vapor Density (Air = 1) : N/A
Solubility in water : complete
Physical State : liquid
Appearance: transparent to translucent
Odour: spicy scent

Density (g/mL): 0.999 at 23 °C
VOC (Wt %) : calculated approx. <1%
Evaporation Rate (Water + 1) : water like
pH (as supplied) : 7.0 to 8.5
Viscosity : water like
Odour Threshold (ppm) : N/A

SECTION 10 : STABILITY AND REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Conditions to Avoid: Excessive heat.

Incompatible Materials: Strong oxidizing agents, strong alkalis, strong acids.

Hazardous Decomposition Products: The thermal decomposition can produce carbon and sulfur oxides and other organic substances.

SECTION 11 : TOXICOLOGICAL INFORMATION

Routes of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE :

Acute Oral Toxicity: LD50:>5000 mg/Kg (EPA Category IV).

Acute Dermal Toxicity: LD50:>5000 mg/Kg (EPA Category IV).

Acute Inhalation Toxicity: LC50:>2.01 mg/L (EPA Category IV).

Acute Eye Irritation: Minimal, all effects cleared in 24 hours (EPA Category IV).

Acute Dermal Irritation: Slight, no erythema or edema at 72 hours (EPA Category IV).

Skin Sensitization: Not a sensitizer (EPA Category IV).

Classified as a Category IV by the U.S. Environmental Protection Agency (EPA) per toxicity profile Review for all routes of exposure: no signal words, no precautionary statements or first aid statements required on product label.

EFFECTS OF CHRONIC EXPOSURE :

Irritancy: Frequent prolonged contact may result in dry skin, redness and dermatitis.

Carcinogenicity/Mutagenicity: No, not predictable.

SECTION 12 : ECOLOGICAL INFORMATION

Biodegradability: Readily Biodegradable (OECD 301E)

Aquatic toxicity: Not toxic to aquatic life (IC50 > 100 mg/L, report EPS 1 / RM / 24)

Method: Microtox® Acute Toxicity Test

Test organism: *Vibrio fischeri*

Results:

CI 50-5 min	560mg/l
IC 95 %-5 min	500-600 mg/L
CI 50-15 min	660 mg/L
IC 95 %-15 min	540-780 mg/L

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose according to existing federal, state/provincial and municipal regulations. This product is biodegradable.

SECTION 14 : TRANSPORT INFORMATION

D.O.T. Not regulated as dangerous goods.

Not regulated for **IATA**.

SECTION 15 : REGULATORY INFORMATION

U.S. EPA registration: 87742-1-92595

California Proposition 65: No chemicals in this material are subject to the reporting requirements.

NSF Registration No. 157263

SECTION 16 : OTHER INFORMATION

SDS Date of preparation/revision: 2018-08-15

Prepared by: LABORATOIRE M2 Inc.

Phone : 1-866-898-0697



Disclaimer

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).



Novel Coronavirus (COVID-19)—Fighting Productsⁱ

The American Chemistry Council's (ACC) Center for Biocide Chemistries (CBC) has compiled a list of products that have been pre-approved by the U.S. Environmental Protection Agency (EPA) for use against emerging enveloped viral pathogens and can be used during the 2019 novel coronavirus (COVID-19) outbreak. This product list is not exhaustive but can be used by business owners, health professionals, and the public to identify products suitable for use against COVID-19.

The information in this document is being provided as a public service. All efforts have been made to ensure the information is accurate, but ACC and CBC make no representations or warranties as to the completeness or accuracy of the information. ACC, CBC, and the product manufacturers listed in this document reserve the right to change, delete, or otherwise modify the information without any prior notice. Persons receiving this information must make their own determination as to a product's suitability prior to use based on the product labeling. ACC and CBC do not guarantee or warrant the standard of any product referenced or imply approval of the product to the exclusion of others that may be available. All products listed are registered for labeled uses in accordance with federal laws and regulations as of the date this document is being made available. State regulations may vary. In no event will ACC or CBC be responsible for damages of any nature whatsoever resulting from the use of or reliance upon products to which the information refers.

For use of the product, please contact the company/distributor to confirm use directions, or consult the EPA approved label at <https://www.epa.gov/pesticide-labels/pesticide-product-label-system-ppls-more-information>.

Ready to Use Products	
Commercially Available Product Name	EPA REG No.
Bioesque Solutions Botanical Disinfectant Solution 12/1 qt	1839-83-68168
Bioesque Solutions Botanical Disinfectant Solution 4/1 gal	1839-83-68168
Bioesque Solutions Botanical Disinfectant Solution 5 gal	1839-83-4170
Bioesque Solutions Botanical Disinfectant Solution 55 gal	1839-220-56782