

**RSC BIO SOLUTIONS** IS PARTNERING WITH **BIOESQUE®**  
to bring the benefits of nature to address the demanding and  
ever-changing needs of commercial customers that need  
**TO KILL COVID-19\***



**BOTANICAL DISINFECTANT SOLUTION**

US EPA Registered Broad-Spectrum Disinfectant  
EPA Registration No. 87742-1



**Sizes and Part Numbers**

1 Quart	BBDSQ
1 Gallon	BBDSG
5 Gallon	BBDS5G
55 Gallon	BBDS55G

For more information and pricing, contact our customer  
service team or your RSC BIO sales representative.  
800-661-3558 | [customerservice@rscbio.com](mailto:customerservice@rscbio.com)

# WE OFFER AN EPA-REGISTERED BOTANICAL DISINFECTANT THAT KILLS SARS-COV-2 ON HARD SURFACES IN JUST 1 MINUTE

## WHAT MAKES IT DIFFERENT?

- **It kills SARS-CoV-2 (COVID-19, Coronavirus Disease 2019) on hard surfaces in just 1 minute,** and many other surface types in just 4 minutes.
- Safe on the majority of automotive interiors and surfaces.
- Safe for everyday use.

### KEY FEATURES

Kills 99.9% of Bacteria, Viruses\*\*, Fungi & Molds  
4-in-1 Disinfect + Sanitize + Clean + Deodorize  
Biodegradable, Ready-to-Use Formula  
Sanitizes soft surfaces in just 2 minutes  
Eliminates 99.9% of most allergens upon contact  
Works with sprayers and foggers  
Kills bacteria that can cause food poisoning  
Reapplication does not accumulate toxicity  
No need to clear area of people/pets when applying

### WHY IT'S SAFER

Non-Abrasive  
Non-Corrosive  
Non-Flammable  
No Bleach or Harmful Chemicals  
No Chlorine and Phosphates  
No PPE Needed\*\*\* (Personal Protective Equipment)  
Botanically-Derived Active Ingredient  
Safe for Use on Water Mitigation



### HOW FAST IT WORKS

**1 minute**  
**On hard surfaces, kills**  
**SARS-CoV-2**

HIV-1  
Swine Influenza A  
H1N1  
RSV

**2 minutes**  
BACTERIA - KILLS 99.99%  
Staph  
Salmonella  
Pseudomonas  
Listeria  
E. coli  
Streptococcus  
MRSA  
Klebsiella pneumoniae

**3 minutes**  
FUNGI & MOLDS - KILLS 99.99%  
Athlete's Foot Fungus  
BACTERIA - Tuberculosis

**4 minutes**  
KILLS 99.99%  
Norovirus

### WHERE

Hospitals  
Nursing Homes  
Cruise Ships  
Farms  
Crawl Spaces  
Automotive  
Public Transportation  
Military Installations  
Common Areas  
Public Restrooms  
Retail Stores

### WHAT

Trash Cans  
Floors  
Appliance Exteriors  
Door Handles  
Hard Surfaces  
Toilet Seats  
Walls  
Windows  
Tables  
Doors  
Metal  
Glazed Ceramic  
Glazed Porcelain  
Steel  
Stainless Steel  
Brass  
Aluminum  
Sealed Concrete  
Plastic  
Polypropylene  
Polystyrene  
Polyethylene  
PVC

\*Bioesque is a surface disinfectant included on the US EPA List N of products expected to be effective against the SARS-CoV-2 virus that causes COVID-19.

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

\*\*\* For use with mechanical, manual, or battery/power operated sprayers, follow standard safe handling of materials. For ULV fogger applications, wear safety glasses with side shields or goggles to protect eyes. Face mask (N95) is also recommended for ULV fogger applications. Ultra-low volume (ULV) fogging machines are cold fogging machines that use large volumes of air at low pressures to transform liquid into droplets that are dispersed widely into the atmosphere surrounding the applicator, so proper eyewear and a mask is recommended for ULV fogger application.

# BOTANICAL DISINFECTANT SOLUTION

## PROFESSIONAL GRADE

### FEATURES

US EPA Registered Broad-Spectrum Disinfectant  
Kills SARS-CoV-2 (COVID-19, Coronavirus Disease 2019) on hard surfaces in just 1 minute!  
Meets EPA Emerging Viral Pathogens Policy  
EPA Reg # on EPA's List N: Disinfectants for Use Against SARS-CoV-2  
On CBC's list Novel Coronavirus (COVID-19) —Fighting Products  
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<sup>s</sup> upon contact  
Formulated for use with Mechanical, manual, or battery/power operated sprayers  
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  
Formulated with Patented Technology  
Meets Sustainable Purchasing Requirements for LEED Credits

### RECOMMENDED FOR USE IN

Schools  
Day Care Centers  
Colleges & Dorms  
Classrooms  
Nurseries  
Churches  
Hospitals  
Aging Care Facilities  
Nursing Homes  
Ambulances  
Surgery Centers  
Airports  
Cruise Ships  
Institutional Kitchens

Food Processing Plants  
Restaurants  
Cafeterias  
Clinics  
Health Care Facilities  
Medical and Dental Offices  
Veterinary Premises  
Farms  
Crawl Spaces  
Attics  
Basements  
Tanning Salons  
Barber Shops  
Public Buildings

Automotive  
Public Transportation  
Institutional Facilities  
Correctional Facilities  
Military Installations  
Offices  
Athletic Facilities  
Multi-Family Housing  
Residential Housing  
Commercial Real Estate  
Common Areas  
Public Restrooms  
Hotels and Motels  
Retail Stores



**30  
SEC**  
KILL TIME

### SANITIZING KILLS > 99.99%

Staphylococcus aureus  
Enterobacter aerogenes

**1  
MIN**  
KILL TIME

### VIRUSES KILLS 99.99%

SARS-CoV-2 (on hard surfaces)  
Swine Influenza A (H1N1)  
HIV-1 AIDS Virus  
Human Coronavirus  
Respiratory Syncytial Virus (RSV)

**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

**4  
MIN**  
KILL TIME

### VIRUSES KILLS 99.99%

Norovirus

To see our listings along with a full list from the CBC, please visit:  
<https://www.americanchemistry.com/Novel-Coronavirus-Fighting-Products-List.pdf>

# 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: BBI | 600 Radiator Road, Indian Trail, NC 28079  
1-704-821-7643 | [www.solvewithB.com](http://www.solvewithB.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: 800-921-4634

Emergency phone: (866) 898-0697

E-Mail: [info@bioesquesolutions.com](mailto:info@bioesquesolutions.com)

Web site: [www.bioesquesolutions.com](http://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>LC<sub>50</sub></u>	<u>LD<sub>50</sub></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

For use with mechanical, manual, or battery/power operated sprayers, follow standard safe handling of materials. For ULV Fogger applications, wear safety glasses with side shields or goggles to protect eyes. Face mask (N95) is also recommended for ULV Fogger applications.

## 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) : 4.0 – 6.0  
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

Health Canada: DIN 02486857

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: 2020-03-31

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 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).