The following SDS references the products below:

***Bioesque Botanical Disinfectant Solution***

*Vendor Item Number: BBDSQ*

Manufactured By:

*Bioesque Solutions*

Distributed by Kimball Midwest with the KM product-identification number:

*80-1599*

# 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
Web site: www.bioesquesolutions.com

## SECTION 2 : HAZARD INDENTIFICATION

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

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS# | Wt % | TLV | $LC_{50}$ | $LD_{50}$ |
|---|---|---|---|---|---|
| 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

THYMOX TECHNOLOGY

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).