

## M.S.D.S. OF **BIOSECUR F465P<sup>®</sup>** (Citrus Extract Powder)

Date: Sept 1st, 2009



In the service of health since 2000, **BIOSECUR LAB INC.** specializes in the research and development of antimicrobial and antioxidant extracts. Our laboratories have perfected **BIOSECUR F465P<sup>®</sup>** which is a complex compound of organic citrus extract in powder.

Having the health and well-being of their fellow humans at heart, our specialists' mission is to create high quality bio-ingredients that are effective and safe, with the aim of preventing disease.

### ACTIVE PROPERTIES OF **BIOSECUR F465P<sup>®</sup>** :

- BACTERIOSTATIC

- ANTIPARASITIC

- FUNGICIDAL

- ANTIBACTERIAL

### A SEAL OF CONFIDENCE



**BIOSECUR F465P<sup>®</sup>** is a quality-certified, active material, with no added preservatives, flavor or color. Use of the registered trademark **BIOSECUR F465P<sup>®</sup>** assures the consumer that the product is free of microbes and supported by scientific research.

Integration of **BIOSECUR F465P<sup>®</sup>** including display of the logo on the product label through license is available upon request.

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1. CHEMICAL NATURE: Citrus extract complex powder
2. PRODUCT NAME: BioSecur F465P<sup>®</sup>
3. MANUFACTURER NAME: BioSecur Lab Inc.  
ADDRESS: 801 Ozias Leduc Road, Suite B, Otterburn Park, Quebec, Canada, J3G 4S6  
TEL (CANADA): (450) 446-9988 FAX: (877) 807-2596  
TEL (U.S.A. AND EMERGENCY PHONE NUMBER): (949) 273-0600  
WEBSITE: [www.biosecur.com](http://www.biosecur.com) EMAIL: [info@biosecur.com](mailto:info@biosecur.com)

## SECTION 2. INGREDIENT AND RELATIVE INFORMATION

1. INCI NAME: Citrus Extract
2. CAS NUMBER: 977038-62-2
3. EINECS NUMBER: 304-454-3
4. SUBSTANCE NAME: Citrus, ext.
5. GRAS: CITRUS EXTRACTIVES – GRAS FDA 21-CFR-182.20
6. NAFTA CERTIFICATE OR COUNTRY OF ORIGIN WITH 6 DIGITS:  
HS CODE (CITRUS EXTRACT): 3301.13.00
7. CONTENT: Organic Maltodextrine, Citrus extract complex compound (does not included grapefruit) and Vegetable glycerin

## SECTION 3. PHYSICAL / CHEMICAL PROPERTIES

1. APPEARANCE: fine powder (80 to 120 mesh)
2. COLOR: Light beige
3. ODOR: Agreeable (light citrus smell)
4. DENSITY: 0,500 g/ml – 0,750 g/ml
5. TASTE: Bitter acid and astringent.
6. SOLUBILITY IN WATER, ALCOHOL AND GLYCEROL: 100%
7. PH: 2.00 – 3.50
8. ACIDITY (quantity of product in mg neutralized by 1 ml of NaOH – 0.1 M): 950 mg – 1350 mg
9. PH FOR USE IN MIXING: Better with products within the pH range 3.00 to 9.00
10. EXPIRATION: 3 (three) years after manufacturing date in right closed drums.

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**SECTION 4. MICROBIOLOGICAL SPECIFICATION**

Method USP 61 and USP 62  
TOTAL AEROBIC BACTERIA/g: < 10  
MOLDS AND YEASTS: < 10  
ESCHERICHIA COLI: Not detected  
SALMONELLA SP: Not detected  
STAPHYLOCOCCUS AUREUS: Not detected  
PSEUDOMONAS AERUGINOSA: Not detected

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**SECTION 5. HEAVY METAL SPECIFICATION (As an analysis is result)**

Pb < 10 ppm      Not detected  
As < 1 ppm        Not detected  
Cd < 1 ppm        Not detected

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**SECTION 6. NUTRITIONAL ANALYSIS/100g (As an analysis is result)**

Energy (Kcal)	70	Cholesterol (mg)	0
Na	0	Carbohydrates (g)	16.2
Vitamin C	952	Fiber/(g)	0
Fat	0	Calcium (mg)	0
Glucose	0.18	Iron (mg)	0
Protein	1.76	Vitamin A RE (RE)	0
Ash	< 0.1%		

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**SECTION 7. STABILITY AND REACTIVITY**

VERY STABLE IN PROCESS TEMPERATURES AT: 39°F to 176°F (4°C TO 80°C) AND UNDER LIGHT.

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**SECTION 8. COMPATIBILITY**

IT IS GENERALLY COMPATIBLE WITH ALL SUBSTANCES. ANY INCOMPATIBILITY COULD BE DUE TO A SINGLE INGREDIENT OF THE MIXTURE. IT IS STABLE BETWEEN 3.00 PH TO 9.00 PH.

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**SECTION 9. INTENDED USE**

USE THE PRODUCT TO HAVE A FUNCTIONAL ANTIMICROBIAL EFFECT IN A FOOD FORMULATION.

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**SECTION 10. INDICATION**

WELL BALANCED COMBINATION OF WIDELY ACCEPTED AND SAFE FOOD INGREDIENTS WHICH HAS A SYNERGISTIC ANTIMICROBIAL ACTION WITH A BROAD SPECTRUM. PROTECTION OF AGAINST ALL CLASSES OF MICRO-ORGANISMS.

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**SECTION 11. SUGGESTED DOSAGE**

IT CAN BE USED AT CONCENTRATIONS OF 1% AND MAY BE INCREASED TO 4% IN THE MORE COMPLEX AND FUNGAL SUSCEPTIBLE FOOD FORMULATIONS.

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**SECTION 12. TOXICOLOGICAL INFORMATION**

1. ACUTE TOXICOLOGY ORAL INGESTION LD50: More than 2000 (two thousand) milligrams / kilogram of corporal weight; in this case, NOT CONSIDERED TOXIC by international standards.
2. SKIN IRRITATION: NON IRRITANT
3. EYE IRRITATION: NON IRRITANT
4. SENSITIZATION: Human repeat insult patch test: No sensitization  
Photosensitization: No sensitization



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### **SECTION 13. HANDLING AND STORAGE**

GENERAL: Keep in a tightly closed, dry, cool location.  
STORAGE PRESSURE: Atmospheric  
STORAGE TEMPERATURE: Ambient

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### **SECTION 14. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- USE ADEQUATE VENTILATION (MECHANICAL)
- USE GLASSES, GOGGLES OR FACE SHIELD
- NIOSH/MSHA-APPROVED UNNECESSARY BUT RESPIRATOR IN CASE OF REPEATED, PROLONGED AMOUNT OF EXPOSURE.
- USE LATEX GLOVES FOR HANDS

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### **SECTION 15. HAZARDS IDENTIFICATION**

1. INHALATION: SHORT-TERM EXPOSURE: When overheated up to 212°F / 100°C, loose acid gasses that can irritate nose and throat.  
LONG-TERM EXPOSURE: N/A.
2. SKIN CONTACT: SHORT-TERM EXPOSURE: Non irritant  
LONG-TERM EXPOSURE: Non irritant
3. EYE CONTACT: SHORT-TERM EXPOSURE: Non irritant  
LONG-TERM EXPOSURE: Non irritant
4. SWALLOWED: SHORT-TERM EXPOSURE: N/A  
LONG-TERM EXPOSURE: N/A.
5. CARCINOGENICITY: N/A.

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### **SECTION 16. EMERGENCY AND FIRST-AID MEASURES**

1. INHALED: Remove to fresh air. If breathing becomes difficult, call a physician.
2. SKIN CONTACT: Wash with soap and water. Rinse skin thoroughly with water for at least 15 minutes.
3. CONTACT WITH EYES: Flush with copious amount of water or normal saline for 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if irritation persists.
4. SWALLOWED: Wash out mouth with water provided person is conscious. Drink plenty of fluids to dilute. Call a physician.

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### **SECTION 17. FIRE FIGHTING MEASURES**

1. UNUSUAL FIRE AND EXPLOSION HAZARDS: None
2. EXTINGUISHING MEDIA: Dry, Carbon Dioxide, Water spray or appropriate foam.
3. FIREFIGHTING PROCEDURES: Positive pressure self-contained breathing apparatus. Avoid contact and inhalation of the product and fumes.

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### **SECTION 18. ACCIDENTAL RELEASE MEASURES**

PICK UP EXCESS WITH ABSORBENT MATERIAL AND FLUSH WITH WATER.

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### **SECTION 19. ECOLOGICAL INFORMATION**

1. BIODEGRADABILITY: Yes
2. ENVIRONMENTAL RISKS: Without risk for environment. Pick-up excess spill with absorbent material and flush with water. Place in container and dispose of in accordance with local and national regulations and provisions.
3. OTHER INFORMATION: Observe good work practices.

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### **SECTION 20. DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Place in container and dispose of in accordance with local and national regulations and provisions



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**SECTION 21. TRANSPORT INFORMATION**

1. ROAD AND RAIL: HS code: 3301.13.00 CITRUS EXTRACTS
2. SEA: HS code: 3301.13.00 CITRUS EXTRACTS
3. AIR: HS code: 3301.13.00 CITRUS EXTRACTS

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**SECTION 22. REGULATORY INFORMATION**

1. CLASSIFICATION: This product is not classified as hazardous.
2. DANGER SYMBOL(S)
3. RISK PHRASE(S)
4. SAFETY PHRASE(S)

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**SECTION 23. OTHER INFORMATION**

THE INFORMATION PROVIDED HEREIN IS BASED ON THE BEST OF OUR KNOWLEDGE AS OF THE DATE SHOWN ABOVE. IT ONLY REFERS TO THE SPECIFIED PRODUCT AND IT IS NOT A GUARANTEE OF ANY PARTICULAR QUALITIES. IT IS THE USER'S RESPONSIBILITY TO MAKE SURE THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION WITH REFERENCE TO THE PRODUCT'S INTENDED USE. FURTHER INFORMATION MAY BE OBTAINED FROM THE MANUFACTURER.