

**M.S.D.S. OF BIOSECUR A568D[®] (Citrus Extract Concentrate)
 (disinfecting formulation)**

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 A568D[®]** which is a complex compound of 100% organic citrus extract.

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 A568D[®] :

- | | | | |
|-----------------|------------------|----------------|--------------|
| - PRESERVATIVE | - ANTIPARASITIC | - DISINFECTANT | - ANTISEPTIC |
| - ANTIBACTERIAL | - BACTERIOSTATIC | - FUNGICIDAL | - SURFACTANT |

A SEAL OF CONFIDENCE



BIOSECUR A568D[®] is a quality-certified, active material, with no added preservatives. Use of the registered trademark **BIOSECUR A568D[®]** assures the consumer that the product is free of microbes and supported by scientific research.

Integration of **BIOSECUR A568D[®]** including display of the logo on the product label through license is available upon request.

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- CHEMICAL NATURE: Citrus extract complex compound
- PRODUCT NAME: BioSecur A580D[®]
- 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 EMAIL: info@biosecur.com

SECTION 2. INGREDIENT AND RELATIVE INFORMATION

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

SECTION 3. ORGANIC CERTIFICATION: ECOCERT, USDA/NOP and EEC.

ECOCERT CANADA declares that the input of BioSecur A568D meet organic standards and are compliant to the specified referential. This certificate authorizes BioSecur Lab Inc. to use the following mention "approved for organic agriculture and for organic products by ECOCERT CANADA" only for the BioSecur A568D and standards mentioned above.

CERTIFICATE NUMBER: **AVIUN09-0098-01E**

Valid until: March 5th, 2010

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SECTION 4. PHYSICAL / CHEMICAL PROPERTIES

1. APPEARANCE: Crystalline Liquid
2. COLOR: Dark yellow color
3. ODOR: Agreeable (light citrus smell)
4. BOILING POINT: 226 °F / 108 °C
5. DENSITY: 1 g/ml
6. TASTE: Light acid, light sweet and light astringent agreeable
7. SOLUBILITY IN WATER, ALCOHOL AND GLYCEROL: 100%
8. PH: 2.00 – 3.50
9. ACIDITY (quantity of product in mg neutralized by 1 ml of NaOH – 0.1 M): 1300 mg – 1900 mg
10. CORROSIVITY: At 2000 ppm it is similar to potable water.
11. PH FOR USE IN MIXING: Better with products within the pH range 3.00 to 9.00
12. EXPIRATION: 3 (three) years after manufacturing date in right closed drums.

SECTION 5. 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

SECTION 6. HEAVY METAL SPECIFICATION (As an analysis is result)

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

SECTION 7. NUTRITIONAL ANALYSIS/100g (As an analysis is result)

Energy (Kcal)	349.44	Cholesterol (mg)	0
Na (mg)	0	Carbohydrates (g)	80.3
Vitamin C (mg)	4765	Fiber/(g)	0
Fat (mg)	0	Calcium (mg)	0
Glucose (mg)	0.9	Iron (mg)	0
Protein (mg)	7.06	Vitamin A RE (RE)	0
Ash	< 0.2%		

SECTION 8. STABILITY AND REACTIVITY

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

SECTION 9. 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.

SECTION 10. INTENDED USE

MIX THE PRODUCT WITH THE LIQUID OF YOUR FORMULA FIRST FOR BETTER UNIFORMITY. USE THE PRODUCT AS A SANITATION FORMULATION.

BIOSECUR A568D[®] ANIMAL SANITATION

To be used as a natural disinfectant and antimicrobial agent to replace chlorine and quaternary ammonium compounds. Use in a solution as an environmental spray on bedding, litter boxes, floors, etc.

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SECTION 11. INDICATION

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

SECTION 12. SUGGESTED DOSAGE

IT CAN BE USED AT CONCENTRATIONS OF .5% AND MAY BE INCREASED TO 2% IN THE MORE COMPLEX AND FUNGAL SUSCEPTIBLE FOOD FORMULATIONS.

SECTION 13. TOXICOLOGICAL INFORMATION

1. ACUTE TOXICOLOGY ORAL: NONE
2. SKIN IRRITATION: NON IRRITANT
3. EYE IRRITATION: NON IRRITANT
4. SENSITIZATION: Human repeat insult patch test: No sensitization
Photosensitization: No sensitization

SECTION 14. HANDLING AND STORAGE

GENERAL: Keep in a tightly closed, dry, cool location.
STORAGE PRESSURE: Atmospheric
STORAGE TEMPERATURE: Ambient. It may crystallize after prolonged exposition to temperature near 32°F / 0°C. The product is easily re-solubilized when transferred to a warmer environment.

SECTION 15. 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

SECTION 16. 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.

SECTION 17. 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. Assume 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.

SECTION 18. 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 19. ACCIDENTAL RELEASE MEASURES

PICK UP EXCESS WITH ABSORBENT MATERIAL AND FLUSH WITH WATER.

SECTION 20. 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.

SECTION 21. DISPOSAL CONSIDERATIONS

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

SECTION 22. 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

SECTION 23. REGULATORY INFORMATION

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

SECTION 24. 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.