



## MATERIAL SAFETY DATA SHEET

Prepared: 08/01/2014

N.A.: Does Not Apply - N.K.: Not Known

### Section 1 - Product Information

Manufacturer's name: Osprey Biotechnics, Inc.  
Emergency Telephone Number: (800) 553-7785  
Address: 1833-A 57<sup>th</sup> Street, Sarasota, Florida 34243  
Common Name: Bacterial Spore Concentrate  
Trade Name: **Microlife™ L**  
Application: Microbial feed additive for animals.  
Microbial Formulation: Proprietary Mixture

### Section 2 – Hazards Identification

HMIS Ratings: Health: 1 Flammability: 1 Physical Hazard: 0 Personal Protection: 1  
Physical and Chemical Hazards: The hazardous properties of the product are considered to be limited.  
Human Health: Dust may irritate the eyes and the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.  
Environment: The product is not expected to be hazardous to the environment.

### Section 3 – Composition/Information on Ingredients

This product contains: *Bacillus licheniformis*  
This material is not a controlled product under Canadian WHMIS regulations.  
The following substances shall be indicated according to legislation:  
Chemical name: calcium carbonate CAS-No: 471-34-1 %: 60-100

### Section 4 – First-Aid Measures

Inhalation: Dust inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing, seek medical attention and take along these instructions.  
Skin contact: Remove contaminated clothing immediately and wash skin with soap and water.  
Eye contact: Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists, seek medical attention and bring along these instructions.  
Ingestion: Immediately rinse mouth and provide fresh air.  
Most important symptoms and Effects, both acute and delayed: Dust may irritate the eyes and the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.  
Indication of any immediate medical attention and special treatment needed: Symptomatic treatment.

### Section 5 – Fire-Fighting Measures

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.  
Specific hazards: No specific precautions. The explosion limits and the flash point are state in section 9.  
Protective equipment for fire-fighters: Selection of respiratory protection for fire-fighting: follow the general fire precautions indicated in the workplace.

### Section 6 – Accidental Release Measures

Personal precautions: Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.  
Environmental precautions: Avoid discharge into drains, water courses or onto the ground.  
Spill Cleanup Methods: Use a vacuum cleaner. If not possible, moisten dust with water before it is collected with shovel, broom or the like.  
Reference to other sections: For personal protection, see section 8. For waste disposal, see section 13.

## Section 7 – Handling and Storage

Safe handling advice:	Avoid inhalation of dust and contact with skin and eyes. Observe good industrial hygiene practices.
Technical measures:	Keep the workplace clean. Use work methods which minimize dust production.
Technical precautions:	Local exhaust is recommended.
Technical measures for safe storage:	No special precautions.
Storage conditions:	Store in tightly closed original container at a temperature: Store at ambient temperature conditions. For detailed information consult the PI sheet. Store in a dry place.

## Section 8 – Exposure Controls/Personal Protection

Engineering measures:	Provide adequate ventilation. Minimize the risk of inhalation of vapors and mist.
Dust OEL – to be used if no other OEL's	Occupational exposure limits: Dust inhalable: 10 mg/m <sup>3</sup> . Dust respirable: 3 mg/m <sup>3</sup>
Chemical Name:	calcium carbonate
Exposure limits	AL-TWA: 10 mg/m <sup>3</sup> - BC—TWA: 3 mg/m <sup>3</sup> - BC-TWA: 10 mg/m <sup>3</sup> BC-STEL: 20 mg/m <sup>3</sup> - QU-TWA: 10 mg/m <sup>3</sup>
Respiratory equipment:	Risk of inhalation of dust or aerosols use suitable respirator. Use respiratory equipment with particle filter: EU: FFP3 filter (e.g. 3M 8835 mask) US: P100 filter (e.g. 3M 8293 mask) The use of filtering respirators should be limited to maximum of 3 hours per day.
Hand protection:	Gloves are recommended for prolonged use.
Eye protection:	Use tight fitting goggles if dust is generated.
Skin protection:	No special precautions.
Hygiene measures:	Wash hands after contact.
Environmental Exposure Controls:	None

## Section 9 – Physical and Chemical Properties

Appearance:	Granulate
Color:	Light Tan
Odor:	Faint odor.
pH:	Not relevant
Melting point:	Not relevant
Boiling point:	Not relevant
Decomposition temperature:	Not relevant
Flash point:	Not relevant
Relative density:	Not available
Solubility:	Not water soluble

## Section 10 – Stability and Reactivity

Reactivity:	None known.
Stability:	Stable under normal temperature conditions and recommended use.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	None known.
Incompatible materials:	None known.
Hazardous decomposition products:	None known.

## Section 11 – Toxicological Information

Inhalation:	Dust may irritate respiratory system. Inhalation of high concentrations of dust or aerosols may cause toxic alveolitis. Symptoms like fever, cold shivering, coughing, difficulties in breathing, headache, muscle and joint pains, etc., may appear 6 to 8 hours after exposure. The symptoms normally disappear completely over night without any treatment. May contain very small amounts of sensitizing substance which may cause sensitization by inhalation in sensitive individuals.
Skin contact:	Dust has an irritating effect on moist skin.
Eye contact:	May irritate.

Ingestion: May irritate and cause malaise.  
 Specific effects: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.  
 Substances listed as carcinogens on NTP, OSHA or IACR are marked with a “+” or indicated as such in the table below.

Chemical Name	NTP	OSHA	IARC
Calcium carbonate	-	-	-

**Section 12 – Ecological Information**

Ecotoxicity: The product is not expected to be hazardous to the environment.  
 Degradability: This product mainly consists of inorganic compounds which are not biodegradable.  
 Bioaccumulative potential: Bioaccumulation: Is not expected to be bioaccumulable.  
 Mobility: The product is insoluble in water and will spread on the water surface.  
 Other adverse effects: None known.

**Section 13 – Disposal Considerations**

Dispose of waste material according to local, state, federal, and provincial environmental regulations.

**Section 14 – Transportation Information**

The product is not covered by international regulations no the transport of dangerous goods (IMDG, IATA, DOT).

UN number -

Air (ICAO/IATA):  
 Transport hazard class (es) -  
 Packing group -

Sea (IMDG):  
 Transport hazard class (es) -  
 Packing group -  
 EmS -  
 MFAG -

Land (TDG):  
 Transport hazard class (es) -  
 Packing group -

Environmental hazards:  
 Marine pollutant (IMDG) -

Special precautions for user None known.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code. Not relevant

**Section 15 – Regulatory Information**

NFPA: Health: 1 Fire: 1 Reactivity: 0 Other: -

Workplace Hazardous Materials Information Systems (WHMIS): This product has been classified in accordance with the hazard criteria of the CPR (Controlled Product Regulations), and the MSDS contains all the information required by the CPR.

WHMIS Class: Non-controlled.

Information on TSCA, DSL/NDSL, IDL and CEPA:

Chemical name	TSCA	DSL/NDSL	IDL	CEPA
Calcium carbonate	-	-	-	-

EC – Labeling: Not required.  
 National regulation: SOR/88-66. Controlled Products Regulations with amendments.

