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## Material Safety Data Sheet

Product: **Endospor™**

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### 1. Manufacturer

**Bactiva, Inc.**

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USA

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### 2. Supplier

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RFC: TNI990610CM3

### 3. Composition/ information on ingredients

Potentially hazardous components	%	OSHA PEL	NIOSH	ACGIH
Humates (coal dust, humic acids)	35%	1.5mg/m <sup>3</sup>		0.1mg/m <sup>3</sup>
Crystalline Quartz	0.7-2.5%	0.1mg/m <sup>3</sup> (respirable)	50µg/m <sup>3</sup> (respirable)	

### 4. Hazards identification

The product, when wet, renders surfaces slippery.

### 5. First aid measures

**Inhalation:** No hazards which require special first aid procedures.

**Skin Contact:** No hazards which require special first aid procedures.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation occurs, consult a physician.

**Ingestion:** The product is not considered toxic based on studies on laboratory animals.

## 6. Fire fighting procedures

**Suitable extinguishing media:** Water, water spray, foam, carbon dioxide, dry power.

**Fire extinguishing agents to avoid:** None

**Special fire fighting precautions:** Wear respiratory protection to avoid breathing dust and smoke.

**Special protective equipment for firefighters:** Take precautions against explosion hazard associated with airborne concentrations of spore dust at high temperature.

## 7. Accidental release measures

**Personal precautions:** No special precautions required.

**Environmental precautions:** Take same precautions that one would take with dust.

**Methods for cleaning up:** Clean up promptly by scoop or vacuum. Avoid stirring up dust. Sweep up under a water mist to reduce dust potential. If contact with skin occurs wash skin with soap and water. Keep in suitable and closed containers for disposal.

## 8. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid dust formulation. Do not breathe dust. Wash hands before breaks and at the end of the workday.

**Storage:** Keep in a dry, cool place (27-77°F, 3-25°C).

## 9. Exposure controls

**Engineering measures to reduce exposure:** Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dust.

**Personal protection equipment:**

**Respiratory protection:** Dust safety masks are recommended where concentration of total dust is more than 10mg/m<sup>3</sup>.

**Eye protection:** Keep away from eyes. Wear safety glasses with side shields if dusts are present.

**Skin and body protection:** No special protective clothing required.

**Hygiene measures:** Wash hands before breaks and at the end of the workday.

## 10. Physical and chemical properties

**Form:** Powder

**Color:** Black

**Odor:** Slight – earth

**pH:** Not applicable

**Melting point (°C):** Not applicable

**Flash point (°C):** Not applicable

**Autoignition temp. (°C):** Not applicable

**Vapor pressure (mm Hg):** Not applicable

**Bulk Density:** 1.5-1.6g/ml

**Water solubility:** Both soluble and insoluble (suspension)

## 11. Stability and reactivity

**Stability:** Product is stable

**Conditions to avoid:** Avoid explosive dust concentrations

**Materials to avoid:** None known

**Hazardous decomposition products:** None known

**Hazardous polymerization:** Will not occur

## 12. Health hazard data

**Route(s) of entry:** Inhalation—yes; skin-possible

**Ingestion possible— Possible health hazards:**

**Acute:** Persons with acute allergies could become asthmatic (rare). Allergies could develop over time in some individuals.

**Chronic:** Persons with mold allergies could experience hay fever with sneezing and nasal congestion. Skin allergy could develop from repeated excess skin contact involving itching and rash (rare).

**Carcinogenicity:** Maximum levels of respirable silicate crystals released throughout handling are  $0.002\text{mg}/\text{m}^3$ – $0.01\text{mg}/\text{m}^3$ . The limits defined by the Department of Labor Exposure Limits of the USA and regulated by the Ruling on Dangerous Chemical Substances and by the Law on Labor Health and Security of 1993 are  $0.4\text{mg}/\text{m}^3$  (threshold level for an average daily 8 hours exposure to silicate crystals).

**Signs and symptoms of exposure:** Sneezing, stuffed or runny nose, hay fever symptoms.

**Medical Conditions Generally Aggravated by Exposure:** Hay fever, mold allergies, dermatitis.

**Emergency and First Aid Procedures:**

If hay fever symptoms develop remove individual from exposure. If wheezing or breathing difficulties develop remove individual to fresh air. If necessary give oxygen. Call a physician. In the rare case of skin rash wash affected area with soap and water. Call a physician for treatment of contact dermatitis. If material is ingested, drink water, induce vomiting, and call a physician.

## 13. Ecological information

**Ecotoxicity:** Ecological injuries are not known or expected under normal use.

**Persistence/ degradability:** Biodegradable.

## 14. Disposal considerations

**Waste from residues/ unused products:** In accordance with Federal State and Local Disposal or discharge regulations.

**Contaminated packaging:** Can be land filled or incinerated, when in compliance with federal, state and local disposal or discharge regulations.

## 15. Transport information

Not classified as dangerous in the meaning transport regulations.

## **16. Regulatory information**

The product is not a hazardous article and need not be labeled.