



156 Frederick Street, PO Box 1777, Moray Place, Dunedin 9054, NEW ZEALAND; Phone: 64 3 477 6447; Fax: 64 3 477 9605

## SAFETY DATA SHEET

### 1. Product and Company Identification

Product: **Zen-O-Spore<sup>®</sup>**

Active Ingredient: ***Ulocladium oudemansii***

Purpose: **Biological control agent for *Botrytis cinerea* in horticultural and agricultural crops**

License Classification: EPA Registration No.: 75747-2  
EPA Establishment No: 075747-NZL-001

Permitted Crops: Grapes (*Botrytis*)

Enquiries: Botry-Zen (2010) Limited  
P O Box 1777, Dunedin 9054, New Zealand

Telephone Number: (+64) 3-477-6447  
Fax Number: (+64) 3-477-9605  
Website: [www.botryzen.co.nz](http://www.botryzen.co.nz)

### 2. Description of Product

**Zen-O-Spore<sup>®</sup>** is a water dispersible granule containing naturally occurring, non-pathogenic fungal spores of *Ulocladium oudemansii*. **Zen-O-Spore<sup>®</sup>** is mixed with water and sprayed directly onto plants at risk from *Botrytis* infection.

### 3. Hazards Identification

No immediate hazards known

### 4. First-Aid Measures

If Inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for treatment advice.

Eye contact:

- Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye
- Call a poison control center or doctor for treatment advice.

Skin contact:

- Wash off thoroughly with disinfectant

5. Fire Fighting Measures

None

6. Accidental Release Measures

Wash area with 10% Bleach

7. Handling and Storage

Handling: No special handling procedures

Storage Conditions: Store in a cool, dry place at or below 68°F (20°C). Store in original container only. Keep container tightly closed when not in use.

Validity: See expiry date on label.

8. Exposure Controls/Personal Protection

Operator: Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.  
Mixer/loaders and applicators, not in enclosed cabs, must wear a dust/mist-filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95.

Special Care: Avoid inhalation of product dust or spray mist as repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

9. Physical and Chemical Properties

Form: Water Dispersible Granule  
Colour: Dark Brown / Black  
Odour: Mushroom odour  
Solubility: Readily dispersed into water  
pH Value: ± 5.5 – 6.0

10. Stability and Reactivity

Stability: As per Section 7

Reactivity: Refer to compatibility sheet

11. Toxicology Information

Not toxic see other identification

12. Ecological Information

Not environmentally hazardous.

**No phyto-pathological** effects on plants and crops.

13. Disposal Considerations

Wastes resulting from use of this product must be disposed of on site or at an approved waste disposal facility.

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

14. Transport Information

Classified by transport regulations as **Non- Hazardous**. Transported in sealed units.

15. Spillage Control

In the event of a spillage, dilute product with plenty of water and wash area with 10% bleach.

16. Regulatory Information

No classification, and labeling according to European Union.

17. Other Information

18. Restrictions for Use

19. Withholding period

**Grapes: do not apply after pre-bunch closure**

Contact Person: Kirstin Bevin	Issue: 1	Date: February 2012
-------------------------------	----------	---------------------