



BioWorks®

**BotryStop
Biofungicide**

Revision Date: May 11, 2017

SAFETY DATA SHEET

1. IDENTIFICATION

GENERAL USE: Biofungicide
COMMON NAME: BotryStop

MANUFACTURED BY:
Botry-Zen (2010) Limited
PO Box 1777
Dunedin 9054
New Zealand

DISTRIBUTED BY:
BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564

EMERGENCY TELEPHONE NUMBERS: BioWorks, Inc: 800-877-9443
CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification: Eye Irritation – Category 2B
Acute Toxicity (Inhalation) – Category 4
Signal Word: Warning
Pictogram:



Hazard Statements: Causes eye irritation
Harmful if inhaled

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wash exposed areas thoroughly after handling.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
Call a poison center or doctor if you feel unwell.

Unclassified Hazards: None

Ingredients with Unknown Toxicity: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product contains the following ingredients:

COMPONENT	CAS No.	%
Ulocladium oudemansii (U3 Strain)*	Not Applicable	45.00

4. FIRST-AID MEASURES

GENERAL ADVICE	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
INHALATION	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
SKIN CONTACT	Take off contaminated clothing and shoes. Wash off with plenty of water for at least 15 minutes. Call a physician or poison control center if symptoms persist.
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 physician or poison control center if symptoms persist.
INGESTION	Call a physician or poison control center if symptoms persist. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED SYMPTOMS	Causes eye irritation. Harmful if swallowed.
IMMEDIATE MEDICAL ATTENTION NEEDED:	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Extinguishing media Suitable	Water spray, Foam, Dry chemical, Carbon dioxide (CO2)
Unsuitable	High volume water jet
Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
Advice for firefighters Special protective equipment for fire-fighters	Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Use appropriate extinguishing media for material that is supplying fuel. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:

PRECAUTIONS Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CLEANUP Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

ADDITIONAL ADVICE Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Advice on safe handling No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. Ensure adequate ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in original container and out of the reach of children, preferably in a locked storage area. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Control parameters No control parameters known.

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

Respiratory protection is not required under anticipated circumstances

of exposure. When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection	Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear long-sleeved shirt and long pants and shoes plus socks.
General protective measures	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	dark brown/black
PHYSICAL STATE	water dispersible granule
ODOR	mushroom odor
ODOR THRESHOLD	no data available
pH	± 5.5 – 6.0
VAPOR PRESSURE	no data available
VAPOR DENSITY	no data available
BULK DENSITY	0.56 g/cc
EVAPORATION RATE	no data available
BOILING POINT	no data available
MELTING / FREEZING POINT	no data available
SOLUBILITY in water:	dispersible
MINIMUM IGNITION ENERGY	not applicable
PARTITION COEFFICIENT	not applicable
AUTO-IGNITION TEMPERATURE	no data available
LOWER EXPLOSION LIMIT	no data available
UPPER EXPLOSION LIMIT	no data available
EXPLOSIVITY	not applicable
FLASH POINT	no data available
DECOMPOSITION TEMP.	no data available
VISCOSITY	no data available
OTHER INFORMATION	Further safety related physical-chemical data are not known.

10. STABILITY AND REACTIVITY

REACTIVITY	no data available
CHEMICAL STABILITY	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS	No hazardous reactions when stored and handled according to prescribed instructions.
CONDITIONS TO AVOID	Freezing. Extremes of temperature and direct sunlight.

INCOMPATIBLE MATERIALS no data available

HAZARDOUS DECOMPOSITION PRODUCTS

No decomposition products expected under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

EXPOSURE ROUTES Inhalation, Eye contact

IMMEDIATE EFFECTS

EYE Causes irritation to eyes.

SKIN May cause mild irritation to the skin.

INHALATION Harmful if inhaled.

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute oral toxicity No data available.

Acute inhalation toxicity No data available.

Acute dermal toxicity No data available.

Skin irritation No data available.

Eye irritation No data available.

Sensitization No data available.

Assessment repeated dose toxicity:

No data available.

Assessment mutagenicity:

No data available.

Assessment carcinogenicity

No data available.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

No data available.

Assessment developmental toxicity

No data available.

12. ECOLOGICAL INFORMATION

Not environmentally hazardous.

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal: Waste resulting from use of this

14. TRANSPORT INFORMATION

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

15. REGULATORY INFORMATION

EPA Registration No. 75747-2-68539

US Federal Regulations

TSCA list

None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

None.

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution

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Hazard statements: Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust or spray mist. Wear safety glasses or goggles. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

16. OTHER INFORMATION

Revision Date: 12/15/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.

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