

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTI	ON 1: Identification of the su	bstance	/mixture and of the company/u	ndertaking	
1.1.	Product identifier				
Product i	ct name : Bonide Revitalize Biofungicide Concentrate				
Product	code	: 7005	11074		
1.2.	Relevant identified uses of the sub	ostance or	mixture and uses advised against		
Use of th	ne substance/mixture	: Fung	icide		
1.3.	Details of the supplier of the safet	y data she	et		
6301 Sut	Products, LLC tliff Road v, NY 13424				
	ne Number: (315) 736-8231 ht: Bonide hours of operation are 8:00	a.m. to 4:3) p.m EST.		
Website:	www.bonide.com				
Email ad	dress: <u>sales@bonide.com</u>				
1.4.	Emergency telephone numbers (2				
Medical			yCall - (833) 972-1101		
Spills		: CHEI	MTREC - 1 (800) 424-9300 and/or 1 (703	3) 527-3887	
SECTI	ON 2: Hazards identification				
2.1.	Classification of the substance or	mixture			
	cation (GHS-US)				
Not class					
2.2.	Label elements				
сналія	labeling				
	ing applicable				
2.3.	Precautionary Statements				
Prolonge	ed or frequently repeated skin contact		allergic reactions in some individuals. Av ndling and before eating, drinking, chewi		
2.4.	Other Hazards				
contamir	nate water when disposing of equipme	nt wash wa	reas where surface water is present, or to ters or rinsate. Do not apply when weath		
SECTI	ON 3: Composition/informati	on on in	greatents		
	Mixture				
Name			Product identifier	%	Classification (GHS-US)
Bacillus	s amyloliquefaciens strain D747		CAS#68038-60-8	98.85	Not classified
SECTI	ON 4: First aid measures				
4.1.	Description of first aid measures				
	measures general		r give anything by mouth to an unconscion the product label with you when calling a		
First-aid	measures after inhalation	: Move	person to fresh air. If person is not brea ation preferable mouth to mouth if possil	thing call 911 or	an ambulance, then give artificial
First-aid	measures after skin contact	: Take	off contaminated clothing and rinse with	plenty water for	15-20 minutes. Call poison contro

4.2. Most important symptoms and effects, both acute and delayed

May cause an allergic reaction in some individual

First-aid measures after eye contact

4.3. Indication of any immediate medical attention and special treatment needed

Note to Physicians: The active ingredient contained in this product has a high affinity for activated charcoal. In case of ingestion of large amounts, administrate 5 mg/kg activated charcoal suspension (50g/400mL water).

center or doctor for treatment advice.

: Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lens after 5 minutes if present then continue rinsing eye. Seek medical attention if irritation persists.

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SECTION 5: Firefighting measures				
5.1. Ex	tinguishing media			
Suitable extin	nguishing media :	All extinguishing media		
Unsuitable ex	tinguishing media :	None known.		
5.2. Sp	ecial hazards arising from the subst	ance or mixture		
None known				
5.3. Ad	vice for firefighters			
Protection du	ring firefighting :	None Specified		
SECTION	6: Accidental release measu			
	rsonal precautions, protective equip			
		ment and emergency procedures		
6.1.1. Fo	r non-emergency personnel			
	:	Use personal protection recommended in Section 8.		
6.1.2. Fo	r emergency responders			
	:	Use personal protection recommended in Section 8.		
6.2. En	vironmental precautions			
Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local and national health and environmental regulations.				
	thods and material for containment	and cleaning up		
Methods for (Containment:	Recover free product. Use absorbent material to minimize runoff of product or mixed product.		
Methods for (Cleaning-up:	Sweep up and place in a chemical container. Seal the container and handle in an approved manner. Do not allow wash water to contaminate water supplies. Dispose of in accordance with Federal State and local regulations for disposal of non-hazardous waste.		
SECTION 7: Handling and storage				
7.1. Pre	ecautions for safe handling			
Precautions f	or safe handling :	Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet Remove clothing/PPE immediately if pesticides got inside. Then wash thoroughly and put on clean clothing Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.		
7.2. Co	nditions for safe storage, including	any incompatibilities		

: Store pesticide in a cool dry area that is inaccessible to children. Store in original containers only.

Storage conditions

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection 8.1. Control parameters

Keep container closed when not in use.

OSHA Permissible Exposure Limits (PELs): Not determined ACGIH Threshold Limit Values: Not determined Other Exposure Limits: Not determined

8.2. Exposure controls

Engineering Controls: Use in well ventilated area

Personal Protective Equipment

Eye/Face Protection: None specified Skin Protection Long sleeved shirt and long pants Hand Protection: Waterproof gloves Body Protection: Shoes plus socks

Respiratory Protection: Mixer loaders and applicators must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R- 95, or P-95. Thermal Hazards: None

General Hygiene Considerations: Repeated exposure to high concentrates of microbial proteins can cause allergic sensitization. Wash clothing and PPE using manufacturer's instructions immediately after use and before reuse.

Environmental exposure controls: Do not apply directly to water or to areas where surface water is present or intertidal areas below high water mark. Do not contaminate water when disposing of equipment wash water or rinsate. Do not apply when weather conditions favor drift or run off from treated areas.

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SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	d chemical properties	
Appearance	: Tan liquid	
Odor	: Yeast like	
Odor threshold	: Not determined	
рН	: 4.5 - 5.0	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point / Freezing point	: 32°F (0°C)	
Initial Boiling point	: 212°F (100 °C)	
Flash point	: No data available	
Self ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Density	: 8.5-8.6 lb./gallon	
Solubility	: No data available	
Viscosity	: 4.0-16 cP	
Explosive properties	: None known	
Oxidizing properties	: None known	

SECTION 10: Stability and reactivity

10.1. Reactivity					
Stable					
10.2. Chemical stability					
Stable under normal conditions.	Stable under normal conditions.				
10.3. Possibility of hazardous reactions	0.3. Possibility of hazardous reactions				
None known					
10.4. Conditions to avoid					
None known					
10.5. Incompatible materials					
None known					
10.6. Hazardous decomposition products					
None known					
SECTION 11: Toxicological information					
11.1. Information on toxicological effects					
Acute toxicity	:				
LD50 (oral)	: LD ₅₀ > 5000 mg/kg body weight rat, test results based on similar product containing the same active ingredient.				
LD50 (dermal)	: LD ₅₀ > 5050 mg/kg body weight rat, test results based on similar product containing the same active ingredient.				
LD50 (inhalation)	: LC50 > 2.18 mg/L, test results based on similar product containing the same active ingredient.				
Skin corrosion/ irritation	: Non-irritating, Toxicity Category IV				
Eye irritation	: No positive effects exhibited in any eyes after treatment Practically non- irritating, Toxicity Category IV				

Respiratory or skin sensitization Carcinogenicity

- : No data available. : Not applicable.

	Test Chesies	Toot Mathad	Teste
12.1.	Toxicity		
SECT	ION 12: Ecological	information	

Test Species	Test Method	Test substance	LC50
Northern Bobwhite	Acute oral toxicity	B. amyloliquefaciens strain D747, active ingredient	LD₅₀ > 2250 mg/kg body weight

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Oncorhynchus mykiss	30 days	B. amyloliquefaciens strain D747, active ingredient	LC50> 8.1 x 1010 CFU/L
Daphnia magna	21 days	B. amyloliquefaciens strain D747, active ingredient	EC50 > 2.3 x 1010 CFU/L
Apis mellifera	48 hours	B. amyloliquefaciens strain D747, active ingredient	LC ₅₀ > 1.0 x 109 CFU/mL

12.2. Persistence and degradability

The active substance B. amyloliquefaciens D747 populations spreading to the environment during or after field application will rapidly decline to naturally occurring background levels.

12.3. Bioaccumulative potential

The active substance B. amyloliquefaciens D747 does not multiply and accumulate in animals and humans.

12.4. Mobility in soil

The active substance B. amyloliqufaciens D747 spores readily adsorb to the clay fractions in soils and show no evidence of leaching. Therefore the risk of ground water contamination is considered negligible. **12.5.** Other adverse effects

Other information

: No data available.

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Disposal Instructions	: Do not contaminate water, food, or feed by storage and disposal.		
Pesticide Storage	Store this product in its original container only, in an area inaccessible to children. Keep the container closed when not in use.		
Pesticide Disposal	Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.		
Container Handling:	Non-refillable container. Do not reuse or refill this container.		

-For containers equal to or less than 5 gallons

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the contain ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

- For containers greater than 5 gallons

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

SECTION 14: Transport information

Not regulated for transport by DOT

SECTION 15: Regulatory 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 as required on the pesticide label:

CAUTION, KEEP OUT OF REACH OF CHILDREN

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

SECTION 16: Other information

Other information

: None.

SDS US (GHS HazCom 2012) - Pesticides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.