

SAFETY DATA SHEET

Companion Biological Fungicide

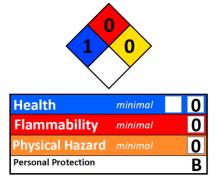
Section 1 IDENTIFICATION	
1.1. Product Identifier	
Product name:	Companion Biological Fungicide
Synonym:	Biological fungicide, bactericide
1.2. Recommended Use / Restrictions	
Identified Uses:	For the prevention, control and suppression of soil and foliar
	diseases. Activates ISR
Restrictions:	N/A – Please see product label
1.3. Supplier Details	
Company:	Growth Products, Ltd.
	80 Lafayette Avenue
	White Plains, NY 10603-1603 USA
	+011 914-428-1316 (9 am - 5 pm EST Mon - Fri)
	questions@growthproducts.com
1.4. Emergency Telephone Number	
Emergency Telephone:	800-222-1222 (American Association of Poison Control Centers)

Section 2 HAZARD(S) IDENTIFICATION	
2.1. Classification of substance or mixture	
Physical Hazards:	This product is not considered hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.
Health Hazards (Potential Effects):	Micro-Organisms may have the potential to provoke sensitizing reactions in some individuals
Environmental Hazards:	Not Classified
2.2. Label Elements	
Pictogram:	N/A
Signal Word:	N/A
Hazard Statements:	N/A
Precautionary Statements:	Please see product label
2.3. Other Hazards	

This product does not contain any substance classified as PBT or vPvB

NFPA Ratings

Health:	1	Slightly hazardous
Flammability:	0	Will not burn
Reactivity:	0	Stable
Specific Hazard:	N/A	Not applicable
HMIS Ratings		
Health:	0	Minimal hazard
Flammability:	0	Minimal hazard
Reactivity:	0	Minimal hazard
Personal (PPE):	В	Goggles, Gloves





Section 3 -- COMPOSITION/INFORMATION ON INGREDIENTS

4.1. Description of first-aid measures Inhalation: Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if symptoms are severe or persist. Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting, unless instructed by a healthcare professional. Rinse mouth thoroughly with water. Get medical attention if any symptoms develop. Skin Contact: Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes. Get medical attention of the throat with a feeling of tightness in the chest. Ingestion: May cause respiratory irritation. There may be irritation of the throat with a feeling of tightness in the chest. Ingestion: Ingestion: Nost important symptoms and effect, both acute and delayed Inhalation: May cause respiratory irritation. There may be irritation of the throat with a feeling of tightness in the chest. Ingestion: Ingestion: Ingestion may cause nausea, vomiting and stomach and digestive irritation. There may be soreness and erritation. Prolonged or repeated skin contact can result in the development of allergy-like skin reactions (e.g., dermatitis, rashes) Eye Contact: Skin Contact the quertifies of inciden	3.2. Mixtures			
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5.1. Extinguishing media Suitable extinguishing media: The product is not flammable. Use fire-extinguishing media suitable for the surrounding environment. The substance itself does not burn.	Specific treatments:	Eye bathing eo	uipment should be available on the	e premises.
Suitable extinguishing media:The product is not flammable. Use fire-extinguishing mediasuitable for the surrounding environment. The substance itself does not burn.	Section 5 FIREFIGHTING MEASURE	S		
suitable for the surrounding environment. The substance itself does not burn.	5.1. Extinguishing media			
does not burn.	Suitable extinguishing media:	The product is	not flammable. Use fire-extinguish	iing media
		suitable for th	e surrounding environment. The su	bstance itself
Unsuitable extinguishing media: N/A				
	Unsuitable extinguishing media:	N/A		



Environmental Hazards:		
5.2. Special hazards arising from the subst		
Hazardous combustion products:	N/A	
5.3. Advice for firefighters		
Protective actions during firefighting:	No specific firefighting precautions known. Irritant, non-	
	flammable, water soluble. Do not inhale gases created by fire. Do	
	not allow run-off from firefighting to enter drains or watercourses.	
Special protective equipment for firefighters:	Wear positive-pressure self-contained breathing apparatus (SCBA)	
	eye protection and appropriate protective clothing.	
Section 6 ACCIDENTAL RELEASE MEAS	SURES	
6.1. Personal precautions, protective equi	pment and emergency procedures	
-	ear protective clothing as described in Section 8 of this safety data	
	eet.	
6.2 Environmental precautions	aid the chillege or runoff entering drains, sowers or watercourses	
Environmental precautions: Av 6.3 Methods and material for containmer	oid the spillage or runoff entering drains, sewers or watercourses.	
	op leak if possible without risk. Contain and absorb spillage with sand,	
•••	rth or other noncombustible material. Transfer to a container for	
dis	sposal. Flush contaminated area with plenty of water. Avoid the spillage	
or	runoff entering drains, sewers or watercourses.	
6.4 Reference to other sections		
Reference to other sections: Fo	r personal protection, see Section 8. For waste disposal, see Section 13.	
Section 7 HANDLING AND STORAGE		
7.1. Precautions for Safe Handling		
Using precautions:	Provide adequate ventilation. Avoid spilling. Avoid contact with	
	skin and eyes. Wash hands thoroughly after handling.	
Advice on general occupational hygiene:	Do not eat, drink or smoke when using this product. Remove	
	contaminated clothing and protective equipment before entering	
7.2 Conditions for Safe Storage Including	eating areas.	
7.2. Conditions for Safe Storage, Including Any Incompatibilities Storage precautions: Store in tightly closed original container in a dry, cool and well-		
	ventilated place. Store at temperatures above 5°C. Keep away	
	from heat and direct sunlight. Keep away from food, drink and	
	animal feeding stuffs.	
7.3. Specific end use(s)		
Specific end use(s):	The identified uses for this product are detailed in Section 1.2.	

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1. Control Parameters			
Occupational exposure limits			
Material	Туре	Value	Source
Bacillus subtilis, strain GB03 (CAS 68038-70-0):	N/A	N/A	N/A
Inert ingredients:	N/A	N/A	N/A



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Protective equipment	
General information:	Protective engineering solutions should be implemented and in use
	before personal protective equipment is considered.
Appropriate engineering controls:	Ensure that eyewash stations and safety showers are close to the
	workstation location. Ensure adequate ventilation.
Eye / face protection:	Use chemical splash-type goggles. Face shield.
Hand protection:	For hand protection, wear approved gloves made of nitrile, PVC, or
	neoprene. Thoroughly rinse the outside of gloves with water prior to
	removal. Inspect regularly for leaks.
Other skin and body protection:	For body protection wear suitable protective clothing.
Hygiene measures:	Avoid breathing vapors, mist or gas. Clean water should be available
	for washing in case of eye or skin contamination.
Respiratory protection:	If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS
	approved self-contained breathing apparatus (SCBA) or other
	approved air-supplied respirator (ASR) equipment (e.g., a full-face
	airline respirator (ALR)).
Environmental exposure controls:	Eye bathing equipment should be available on the premises. Provide
	quick-drench showers and washing facilities accessible to areas of
	use and handling. Have supplies and equipment for neutralization
	and running water available.
Equipment:	
HMIS Letter: B	
HMIS Letter: B	Safety
	Glasses Gloves

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State:	Liquid	Evaporation Rate:	N/A
Color	Brown	Boiling Point:	About 210°F / 99°C
Odor:	Sweet Earthy Odor	Freezing Point:	<32°F / 0°C
Weight per Gallon / Liter:	9.95# @ 70°F / 1.19 Kg @ 21°C	Viscosity:	20 cps @ 21 Degrees C
Storage Life at 70F:	>3 years	Flash Point/Method:	Noncombustible
pH – 21C:	5-6	Vapor Pressure:	Equivalent to water
Solubility:	Soluble	Storage Temperature:	Above 32°F / 0°C

Section 10 -- STABILITY AND REACTIVITY

10.1. Reactivity	
Reactivity:	Stable
10.2. Chemical Stability	
Stability:	Stable under normal recommended storage conditions.
10.3. Possibility of Hazardous Reactions	
Possibility of hazardous reactions:	N/E
10.4 Conditions to Avoid	
Conditions to avoid:	Exposure to extreme temperatures and incompatible materials
10.5 Incompatible Materials	



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Materials to avoid:		
10.6	Hazardous Decomposition Products	
Hazardous decomposition products:		N/E

Section 11 TOXICOLOGICAL INFORMATION		
11.1. Information on Toxi	cological Effects	
Toxicological effects:	N/E. No data available.	
Over Exposure, Acute:	Liquid contact may cause slight eye irritation and repeated skin exposure may cause	
	skin irritation.	
Over Exposure, Chronic:	N/E	
Routes of Exposure:	Not expected to be harmful under normal conditions of use, however if allowed to	
	become airborne, may cause irritation of nose throat and lungs. May cause irritation	
	from prolonged or repeated contact.	
Acute, Dermal LD ₅₀ :	N/E	
Acute, Oral LD ₅₀ :	N/E	
Effects to eyes:	No corneal or iridal effects were noted at dose of 0.1 ml, rabbits.	
Effects to Ingestion	Non-toxic and non-pathogenic	
Effects to skin:	Moderate irritation, reversible within 7 days	
11.2 Toxological informa	tion on main components of the mixture:	
Carcinogenicity Assessment:	Bacillus subtilis: test not required for microorganisms	
Mutagenicity Assessment:	Bacillus subtilis: test not required for microorganismsee4	
ACGIH: None	NTP: None IARC: None OSHA: None	
Section 12 ECOLOG	ICAL INFORMATION	
Ecotoxicity:		
12.1. Toxicity		
	N/A	
12.2. Persistence and degradability		
Persistence and Degradability: N/E		
12.3. Bioaccumulative potential		
Bioaccumulative potential: Expected to desorb fairly rapidly from soil and not bioaccumul		
Partition coefficient:		

12.4.	Mobility in Soil	
Mobility	<i>y</i> :	This product is biodegradable in soil by microbial activity
12.5.	Results of PBT and vPvB Assessment	
		Not listed in EIS PBT List.
12.6.	Other Adverse Effects	

N/E

Section 13 -- DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Other adverse effects:

Disposal methods: Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product, residue and/or container. Product as shipped Section 13.

Section 14 -- TRANSPORTATION INFORMATION

General

Product is not flammable, not corrosive, not explosive and not radioactive.



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- 14.1. **UN Number** N/A
- 14.2. **UN Proper Shipping Name** N/A
- 14.3. **Transport Hazard Class(es)** N/A N/A
- 14.4. **Packing Group** 14.5. N/A
- **Environmental Hazards**
- 14.6. **Special Precautions for User** N/A
- 14.7. Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code: N/A

Section 15 **REGULATORY INFORMATION**

15.1. Safety, health and Environmental Regulations / Legislation Specific for the Substance or Mixture **EU legislation:** This product is labeled in accordance EU directives.

15.2. **Chemical Safety Assessment**

See Section 2.3 for NFPA & HMIS Ratings

Section 16 **OTHER INFORMATION**

REVISED DATE: 16 May 2016

Other Precautions:	Read entire label before using	
Abbreviations / Acronyms:	N/E	Not Established N/A Not applicable
· · · ·	ACGIH	American Conference of Governmental Industrial Hygienists
	TLV	Threshold Limit Values
	PEL	Permissible Exposure Limit
	REL	Recommended Exposure Limit
	OSHA	Occupational Safety and Health Administration
	NIOSH	National Institute for Occupational Safety and Health
	TWA	Time Weighted Average over 8 hours of work
	TLV	Threshold Limit Value over 8 hours of work
	REL	Recommended Exposure Limit
	PEL	Permissible Exposure Limit
	STEL	Short Term Exposure Limit during x minutes
	IDLH	Immediately Dangerous to Life or Health
	TSCA	Toxic substance Control Act (United States)
	DSL	Domestic Substance List (Canada)
	EINECS	European Inventory of Existing Commercial Chemical Substances (Europe)
	ELINCS	European List of Notified Chemical Substances (Europe)
	ENCS	Existing Chemical Substances
	IECSC	Inventory of Existing Chemical Substances
	KECL	Korea Existing Chemicals Inventory
	PICCS	Philippines Inventory of Chemical and Chemical Substances
	AICS	Australian Inventory of Chemical Substances
	NZIOC	New Zealand Inventory of Chemicals
	HMIS	Hazardous Material Identification System (American Coatings Association)
	NFPA	National Fire Protection Association
	PBT	Persistent Bioaccumulative and Toxic
	vPvB	Very Persistent and very Bioaccumulative
	STOT SE	Specific Target Organ Toxicity; Single Exposure
	STOT RE	Specific Target Organ Toxicity; Repeated Exposure
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