

SAFETY DATA SHEET

Companion[®] Biological Fungicide

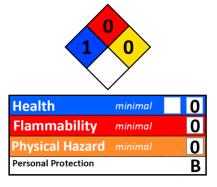
Section 1 IDENTIFICATION	
1.1. Product Identifier	
Product name:	Companion Biological Fungicide
Synonym:	Biological fungicide, bactericide
1.2. Recommended Use / Restrictions	
Identified Uses:	For the prevention, control and suppression of soil and foliar
	diseases. Activates ISR
Restrictions:	N/A – 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

3.2. Mixtures						
	Chemical Name	CAS Registry No.	Concentration % by Weight	Classification		
Bacillus	s subtilis, strain GB03:	68038-70-0	0.03%	N/A		
Inert ingre	Inert ingredients (confidential): - 0.97%					
	ST-AID MEASURES					
•	of first-aid measures		5 1 1 11 11 1			
Inhalation:	•		Rinse nose and mouth with water.	Get medical		
	attention if symptom	•				
Ingestion:		•	scious person. Do not induce vomi	-		
	•	•	nse mouth thoroughly with water.	Get medical		
	attention if any symp	•				
Skin Contact:			ntamination. Take off immediately			
	-		kin thoroughly with soap and water	r. Get medical		
	attention if any disco					
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 if				
	irritation persists afte	•				
4.2. Most import	ant symptoms and effe	ect, both acute and d	elayed			
Inhalation:	May cause respirator	y irritation. There ma	y be irritation of the throat with a t	feeling of		
	tightness in the chest	•				
Ingestion:	Ingestion may cause nausea, vomiting and stomach and digestive irritation. There may be					
	soreness and redness	of the mouth and th	roat.			
Skin Contact:	Skin contact may cau	se redness and irritat	ion. Prolonged or repeated skin co	ntact can result in		
	the development of allergy-like skin reactions (e.g., dermatitis, rashes)					
Eye Contact:	There may be irritation and redness. Profuse watering of the eyes.					
4.3. Indication of	any immediate medica	al attention and spec	ial treatment needed			
Notes for doctor:	No specific recomme	ndations. If in doubt,	get medical attention promptly. Tr	eatment may vary		
	with the condition of	victim and specifics of	of incident.			
Specific treatments:	Eye bathing equipment should be available on the premises.					
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Section 5 F	IREFIGHTING MEASURES
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5.1. Extinguishing media	
Suitable extinguishing media: The product is no	t flammable. Use fire-extinguishing media suitable for the
surrounding envi	ronment. The substance itself does not burn.
Unsuitable extinguishing media: N/A	
Environmental Hazards:	
5.2. Special hazards arising from the substand	e or mixture
Hazardous combustion products: N/A	
5.3. Advice for firefighters	
Protective actions during firefighting: No spe	ecific firefighting precautions known. Irritant, non-flammable, water
solubl	e. Do not inhale gases created by fire. Do not allow run-off from
firefig	hting 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 MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet.

6.2 Environmental precautions: Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3 Methods and material for containment and cleanup

Methods for cleaning up: Stop leak if possible without risk. Contain and absorb spillage with sand, earth or other noncombustible material. Transfer to a container for disposal. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
6.4 Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

Section 7 HANDLING AND STORA	GE
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 eating
	areas.
7.2. Conditions for Safe Storage, Inclu	ding 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): 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	

8.2. **Exposure controls 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)).



Equipment:

HMIS Letter:

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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.



Section 9 PHYSI	CAL AND CHEMICAL PROPERTIES		
9.1. Information on ba	asic physical and chemical propert	ies	
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

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10.1. Reactivity: Stable

10.2. Chemical Stability: Stable under normal recommended storage conditions.

10.3. Possibility of Hazardous Reactions: N/E

10.4 Conditions to Avoid: Exposure to extreme temperatures and incompatible materials

10.5 Incompatible Materials

Materials to avoid: N/E

10.6 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 & 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 :	>5000 mg/kg (Rats)
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 informat	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 -- ECOLOGICAL INFORMATION

Ecotoxicity: 12.1. Toxicity: N/A



- **12.2.** Persistence and degradability: N/E
- **12.3.** Bioaccumulative potential: Expected to desorb fairly rapidly from soil and not bioaccumulate.
- 12.4. Mobility in Soil: 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

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 a non-regulated material; not flammable, not corrosive, not explosive and not radioactive.

Regulatory Information	14.1 UN Number	14.2 Proper Shipping Name	14.3 Class(es)	14.1 Packing Group	14.5 Environmental Hazard	14.6 Special Precautions or User	Additional Information
ADR / RID	Not regulated for	Not	Not	Not	Not classified as	N/A	N/A
Class	transportation	regulated	regulated	regulated	marine pollutant		
ADNR	Not regulated for	Not	Not	Not	Not classified as	N/A	N/A
Class	transportation	regulated	regulated	regulated	marine pollutant		
IMDG	Not regulated for	Not	Not	Not	Not classified as	N/A	N/A
Class	transportation	regulated	regulated	regulated	marine pollutant		
IATA	Not regulated for	Not	Not	Not	Not classified as	N/A	N/A
class	transportation	regulated	regulated	regulated	marine pollutant		

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.

EO legislation: This product is labeled in accordance EO directives.

15.2. Chemical Safety Assessment: See Section 2.3 for NFPA & HMIS Ratings

Section 16 - OTHER INFORMATION

REVISED DATE: 22 May 2017

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 Admir	nistratio	n
	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 mi	nutes	
	IDLH	Immediately Dangerous to Life or Hea	lth	



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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
GER-MAK	Germany Maximum Workplace Concentration
DOT	Department of Transportation
TDG	Transportation of Dangerous Goods (Canada)
ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail (EU)
ADNR	Regulation for the Carriage of Dangerous Substances on Waterways (EU)
IMDG	International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
IATA	International Air Transport Association
ACGIH	American Conference of Governmental Industrial Hygienists
TLV	Threshold Limit Values
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit

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