

SAFETY DATA SHEET Companion Biological Fungicide Wettable Powder

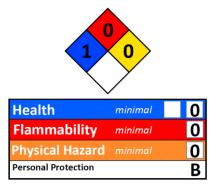
| Section 1 IDENTIFICATION | |
|--|--|
| 1.1. Product Identifier | |
| Product name: | Companion Biological Fungicide Wettable Powder |
| Synonym: | Biological fungicide, bactericide |
| 1.2. Recommended Use / Restrictions | |
| Identified Uses: | For the prevention, control and suppression of soil and 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 |
| Health Hazards (Potential Effects): | Federal OSHA Hazard Communication Standard 29CFR 1910.1200. 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

| 0 | | |
|------------------|-----|--------------------|
| 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/INFORMA | TION ON INGREDIENT | S | | | | |
|--|--|--|--|--|--|--|
| 3.2. Mixtures | 11 | | | | | |
| Chemical Name | CAS Registry No. | Concentration % by Weight | Classification | | | |
| Bacillus subtilis, strain GB03: | 68038-70-0 | 0.03% | N// | | | |
| Inert ingredients (confidential): | - | 0.97% | N// | | | |
| Section 4 FIRST-AID MEASURES | | | | | | |
| 4.1. Description of first-aid measures | | | | | | |
| Inhalation: | Move affected | person to fresh air at once. Rinse | e nose and mouth | | | |
| | with water. Ge | t medical attention if symptoms a | are severe or persist | | | |
| Ingestion: | Never give any | thing by mouth to an unconsciou | s person. Do not | | | |
| | induce vomitin | g, unless instructed by a healthca | are professional. | | | |
| | Rinse mouth th | oroughly with water. Get medica | al attention if any | | | |
| | symptoms dev | elop. | | | | |
| Skin Contact: | Remove affect | ed person from source of contam | ination. Take off | | | |
| | | l contaminated clothing and wasl | | | | |
| | | oughly with soap and water. Get | medical attention if | | | |
| | • | any discomfort continues. | | | | |
| Eye Contact: | | y with water for several minutes. | | | | |
| | lenses, if present and easy to do. Continue rinsing. Continue to rinse | | | | | |
| | for at least 15 minutes. Get medical attention if irritation persists | | | | | |
| | | | | | | |
| | after washing. | | | | | |
| 4.2. Most important symptoms and effe | - | aved | | | | |
| 4.2. Most important symptoms and effe Inhalation: | ct, both acute and de | - | rritation of the | | | |
| | ect, both acute and de May cause res | ayed biratory irritation. There may be i eeling of tightness in the chest. | rritation of the | | | |
| | ect, both acute and de May cause res throat with a f | piratory irritation. There may be i | | | | |
| Inhalation: | ect, both acute and de May cause res throat with a f Ingestion may | piratory irritation. There may be i eeling of tightness in the chest. | ach and digestive | | | |
| Inhalation: | ect, both acute and de May cause res throat with a f Ingestion may | piratory irritation. There may be i beeling of tightness in the chest. cause nausea, vomiting and stom | ach and digestive | | | |
| Inhalation: | ect, both acute and de May cause res throat with a fu Ingestion may irritation. Ther throat. | piratory irritation. There may be i beeling of tightness in the chest. cause nausea, vomiting and stom | ach and digestive f the mouth and | | | |
| Inhalation: Ingestion: | ect, both acute and de May cause res throat with a f Ingestion may irritation. Ther throat. Skin contact m | piratory irritation. There may be i celing of tightness in the chest. cause nausea, vomiting and stom e may be soreness and redness o | ach and digestive f the mouth and rolonged or | | | |
| Inhalation: Ingestion: | ect, both acute and de May cause res throat with a for Ingestion may irritation. Ther throat. Skin contact m repeated skin o | piratory irritation. There may be i celing of tightness in the chest. cause nausea, vomiting and stom e may be soreness and redness o ay cause redness and irritation. P | ach and digestive f the mouth and rolonged or | | | |
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| Inhalation: Ingestion: Skin Contact: Eye Contact: | ect, both acute and de May cause res throat with a for Ingestion may irritation. Ther throat. Skin contact m repeated skin of skin reactions There may be i | piratory irritation. There may be i celing of tightness in the chest. cause nausea, vomiting and stom e may be soreness and redness o ay cause redness and irritation. P contact can result in the developr e.g., dermatitis, rashes) rritation and redness. Profuse wa | ach and digestive f the mouth and rolonged or nent of allergy-like | | | |
| Inhalation: Ingestion: Skin Contact: Eye Contact: | ect, both acute and de May cause res throat with a fund Ingestion may irritation. Ther throat. Skin contact m repeated skin of skin reactions There may be in al attention and special | piratory irritation. There may be i celing of tightness in the chest. cause nausea, vomiting and stom e may be soreness and redness o ay cause redness and irritation. P contact can result in the developr e.g., dermatitis, rashes) rritation and redness. Profuse wa | ach and digestive f the mouth and rolonged or nent of allergy-like atering of the eyes. | | | |
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| Inhalation: Ingestion: Skin Contact: Eye Contact: 4.3. Indication of any immediate medica Notes for doctor: Specific treatments: <u>Section 5 FIREFIGHTING MEASURES</u> 5.1. Extinguishing media | Sect, both acute and de May cause resp throat with a for Ingestion may irritation. There throat. Skin contact more repeated skin of skin reactions There may be in al attention and specia No specific record promptly. Treat specifics of incont Eye bathing eq The product is | biratory irritation. There may be i celing of tightness in the chest. cause nausea, vomiting and stom e may be soreness and redness o ay cause redness and irritation. P contact can result in the developr e.g., dermatitis, rashes) rritation and redness. Profuse wa al treatment needed commendations. If in doubt, get m tment may vary with the condition dent. uipment should be available on t | ach and digestive f the mouth and rolonged or nent of allergy-like atering of the eyes. nedical attention on of victim and he premises. | | | |



| Unsuitable extinguishing media: | N/A | | |
|---|---|--|--|
| Environmental Hazards: | | | |
| 5.2. Special hazards arising from the s | ubstance or mixture | | |
| 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 firefighte | | | |
| | eye protection and appropriate protective clothing. | | |
| Section 6 ACCIDENTAL RELEASE N | /IEASURES | | |
| 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 | | | |
| Environmental precautions: | Avoid the spillage or runoff entering drains, sewers or watercourses. | | |
| 6.3 Methods and material for contain | iment 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 | | | |
| 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 | | |
| 0 1 70 | contaminated clothing and protective equipment before entering | | |
| | eating areas. | | |
| 7.2. Conditions for Safe Storage, Inclu | | | |
| 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) | - | | |
| Snecific end use(s) | The identified uses for this product are detailed in Section 1.2 | | |

Specific end use(s):

Inert ingredients:

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 Type Value Source | | | |
| Bacillus subtilis, strain GB03 (CAS 68038-70-0): | N/A | N/A | N/A |

N/A

N/A

| Companion WP ~ | Page 3 of 7 |
|----------------|---------------------------|
|----------------|---------------------------|

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)). |
| 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 | 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 STABI | LITY AND REACTIVITY | | |

| 10.1. Reactivity | C+- - - |
|--|---|
| 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 | |
| Materials to avoid: | N/E |
| 10.6 Hazardous Decomposition Products | |
| Hazardous decomposition products: | N/E |
| | |

| Section 11 TOXICOLO | DGICAL INFORMATION | | |
|--|--|--|--|
| 11.1. Information on Toxicological 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 informat | ion 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 | | | |
| Persistence and Degradability: | | N/E | | |
| 12.3. | Bioaccumulative potential | | | |
| Bioaccumulative potential: | | Expected to desorb fairly rapidly from soil and not bioaccumulate. | | |
| Partition coefficient: | | | | |
| 12.4. | Mobility in Soil | | | |
| Mobility: | | 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 | | | |
| 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.



| 5 | Section 14 | TRANSPORTATION INFORMATION |
|---|------------|--------------------------------|
| | | |
| | | |

General

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

| 14.1. | UN Number | N/A |
|-------|-------------------------|-----|
| 14.2. | UN Proper Shipping Name | N/A |

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

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: 10 June 2016

| Other Precautions: | Read enti | re 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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