



# **Companion Microbial Inoculant 2-3-2**

#### Section 1 -- IDENTIFICATION

1.1. Product Identifier

Product name: Companion Microbial Inoculant 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: Unit 30 Branbridges Industrial Estate

East Peckham Kent TN12 5HF 01892 883759

1.4. Emergency Telephone Number

Emergency Telephone: 01892 883759

## 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

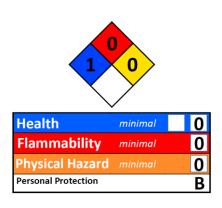
**Precautionary Statements:** Please see product label

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

**Eye Contact:** 

Chemical Name	CAS Registry No.	Concentration % by Weight	Classification
Bacillus subtilis, strain GB03:	68038-70-0	0.03%	N/A
Inert ingredients (confidential):	-	0.97%	N/A

## Section 4 -- FIRST-AID MEASURES

#### 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.

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 after washing.

## 4.2. Most 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 may cause nausea, vomiting and stomach and digestive irritation. There may be soreness and redness of

the mouth and throat.

**Skin Contact:** Skin contact may cause redness and irritation. Prolonged or repeated skin contact 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 medical attention and special treatment needed

Notes for doctor: No specific recommendations. If in doubt, get medical attention promptly. Treatment may vary

with the condition of victim and specifics of incident.

**Specific treatments:** Eye bathing equipment should be available on the premises.

## Section 5 -- FIREFIGHTING MEASURES

## 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.

Unsuitable extinguishing media: N/A

**Environmental Hazards:** N/A

5.2. Special hazards arising from the substance 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 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

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

## SAFETY DATA SHEET

## 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

**Reference to other sections:** For 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 eating areas.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage precautions:** Store in tightly closed original container in a dry, cool & well-ventilated place. Store at temperatures

above 5°C. Keep away from heat & direct sunlight. Keep away from food, drink & 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)).

**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:





## **SAFETY DATA SHEET**

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 yearsFlash Point/Method:NoncombustiblepH - 21C:5-6Vapor Pressure:Equivalent to waterSolubility:SolubleStorage Temperature:Above 32°F / 0°C

Section 10 -- STABILITY AND REACTIVITY

**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:** Copper

10.6 Hazardous Decomposition Products N/E

Section 11 -- TOXICOLOGICAL 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<sub>50</sub>: N/E Acute, Oral LD<sub>50</sub>: 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 information 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.

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

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

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: 21 December 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

## **SAFETY DATA SHEET**

	0/11 E11 E/11/10 SILE
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

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