

## TAEGRO ECO

Date: 5/11/2015  
Replaces: 4/3/2013

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **TAEGRO ECO**  
Product No.: A20570A  
Use: Bacterial Cultures  
Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419  
Manufacturer Phone: 1-800-334-9481

**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Eye Damage/Irritation: Category 2B  
Respiratory Sensitizer: Category 1B  
Signal Word (OSHA): Danger  
Hazard Statements: Causes eye irritation  
May cause allergy or asthma symptoms or breathing difficulties if inhaled

Hazard Symbols:



Precautionary Statements: Avoid breathing dust.  
Wash hands and face thoroughly after handling.  
In case of inadequate ventilation wear respiratory protection. See Section 8 Exposure Control/Personal Protection.  
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice.  
If experiencing respiratory symptoms: Call a poison center, doctor or Syngenta.  
Dispose of contents and container in accordance with local regulations.

Other Hazard Statements: May form combustible dust concentrations in air.

## TAE GRO ECO

Date: 5/11/2015

Replaces: 4/3/2013

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	Common Name	CAS Number	Concentration
Other ingredients	Other ingredients	Trade Secret	87.0%
Bacillus Subtilis var. Amyloliquefaciens Strain FZB24	Bacillus Subtilis var. Amyloliquefaciens Strain FZB24	Not Assigned	13.0%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

**4. FIRST AID MEASURES**

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion: If swallowed: Call Syngenta (800-888-8372), a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-8372 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Most important symptoms/effects:

Eye irritation

Respiratory Sensitization

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Avoid dust formation.

## TAEGRO ECO

Date: 5/11/2015  
Replaces: 4/3/2013

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

Not Applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Bacillus Subtilis var. Amyloliquefaciens Strain FZB24	Not Established	Not Established	Not Established	

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A particulate filter respirator may be necessary until effective engineering controls are installed to comply with occupational exposure limits. Use NIOSH certified respirator with any N, R, P or HE filter. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

## TAEGRO ECO

Date: 5/11/2015  
Replaces: 4/3/2013

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Beige powder  
Odor: Acidic  
Odor Threshold: Not Available  
pH: 6.6  
Melting point/freezing point: Not Available  
Initial boiling point and boiling range: Not Available  
Flash Point (Test Method): Not Available  
Flammable Limits (% in Air): Not Available  
Flammability: Not Available  
Vapor Pressure: Bacillus Subtilis var. Amyloliquefaciens Strain FZB24 Not Applicable  
Vapor Density: Not Available  
Relative Density: 44.8 lbs/ft<sup>3</sup>  
Solubility (ies): Bacillus Subtilis var. Amyloliquefaciens Strain FZB24 Minimal  
Partition coefficient: n-octanol/water: Not Available  
Autoignition Temperature: Not Available  
Decomposition Temperature: Not Available  
Viscosity: Not Available  
Other: None

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.  
Chemical stability: Stable under normal use and storage conditions.  
Possibility of hazardous reactions: Will not occur.  
Conditions to Avoid: Not Available  
Incompatible materials: None known.  
Hazardous Decomposition Products: Thermal decomposition releases CO, CO<sub>2</sub>, hydrocarbons.

### 11. TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Eye irritation, Respiratory Sensitization

Delayed, immediate and chronic effects of exposure: Eye irritation, Respiratory system effects

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion: Oral (LD<sub>50</sub> Rat) : See "Other Toxicity Information", Sec. 11

## TAEGRO ECO

Date: 5/11/2015  
Replaces: 4/3/2013

Dermal:	Dermal (LD50 Rat) :	See "Other Toxicity Information", Sec. 11
Inhalation:	Inhalation (LC50 Rat) :	See "Other Toxicity Information", Sec. 11
Eye Contact:	See "Other Toxicity Information", Sec. 11	
Skin Contact:	See "Other Toxicity Information", Sec. 11	
Skin Sensitization:	See "Other Toxicity Information", Sec. 11	

### Reproductive/Developmental Effects

Bacillus Subtilis var. Amyloliquefaciens Strain FZB24: Not Available

### Chronic/Subchronic Toxicity Studies

Bacillus Subtilis var. Amyloliquefaciens Strain FZB24: Not Available

### Carcinogenicity

Bacillus Subtilis var. Amyloliquefaciens Strain FZB24: Not Available

Chemical Name	NTP/IARC/OSHA Carcinogen
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Other ingredients	No
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Bacillus Subtilis var. Amyloliquefaciens Strain FZB24	No
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### Other Toxicity Information

Acute oral toxicity: Product demonstrated very low acute oral toxicity and a complete lack of pathogenicity.

Acute dermal toxicity: Product demonstrated no signs of systemic toxicity.

Acute inhalation toxicity: Low. Acute inhalation LC50 has not been determined.

Eye irritation: Mild to moderate eye irritation may result from exposure.

Skin irritation: Mild skin irritation may result from exposure.

Skin sensitization: No sensitization noted.

### Toxicity of Other Components

Other ingredients	Not Applicable
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### Target Organs

#### Active Ingredients

Bacillus Subtilis var. Amyloliquefaciens Strain FZB24:	Not Available
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#### Inert Ingredients

Other ingredients:	Not Applicable
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## TAE GRO ECO

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### 12. ECOLOGICAL INFORMATION

#### Eco-Acute Toxicity

Bacillus Subtilis var. Amyloliquefaciens Strain FZB24:

Toxicity to bees: No signs of toxicity or pathogenicity

Toxicity to fish: No signs of toxicity or pathogenicity

Toxicity to birds: No signs of toxicity or pathogenicity

#### Environmental Fate

Bacillus Subtilis var. Amyloliquefaciens Strain FZB24:

Not Available

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

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### 14. TRANSPORT INFORMATION

#### DOT Classification

Ground Transport - NAFTA

Not regulated

#### Comments

Water Transport - International

Not regulated

Air Transport

Not regulated

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### 15. REGULATORY INFORMATION

#### Pesticide Registration:

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:

Warning: WARNING - Causes skin irritation. Do not get on skin or on clothing. Wear coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant footwear, and chemical-resistant gloves. Causes moderate eye irritation. Avoid contact with eyes. Wear protective eyewear such as goggles, face shield or shielded safety glasses. Harmful if absorbed through the skin, inhaled or swallowed. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

EPA Registration Number(s):

70127-5-100

## TAE GRO ECO

Date: 5/11/2015  
Replaces: 4/3/2013

### EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

### CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

### RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

### TSCA Status:

Exempt from TSCA, subject to FIFRA

## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health: 1  
Flammability: 1  
Instability: 0

### HMIS Hazard Ratings

Health: 2  
Flammability: 1  
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: E

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 4/3/2013

Revision Date: 5/11/2015

Replaces: 4/3/2013

Section(s) Revised: 1-16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.