

SAFETY DATA SHEET

1. Identification of the substance/ preparation and of the company/ undertaking

Product name: Link-Bta. [item#YM-1090905]
Other names: <i>Bacillus thuringiensis aizawai</i> 32000IU/mg
Usage: A biological pest control product. Caterpillars particularly Spodoptera group of Lepidoptera. Suitable for use in organic farming and for IPM where approved for use in that country.
Supplier: Growing-Up International Corp. No.31, 3 Alley, 75 Lane, Tai Ping Rd., Tsao Tuen, Nantou, TAIWAN. Tel: +886-49-2337 927
Emergency Contact: Growing-Up International Corp. Tel: +886-49-2337 927

2. Hazardous information

Hazardous Product: Not classified as hazardous conform EEC Dangerous Substance Directive and Dangerous Preparation Directive.
Indicated contents: <i>Bacillus thuringiensis aizawai</i> 32000IU/mg
Other hazards: ---

3. Composition/ Information on ingredients

Name: <i>Bacillus thuringiensis aizawai</i> 32000IU/mg
Synonym: None
CAS No.: 68038-71-1

4. First-aid measures

First-aid measures : Inhalation: Immediately move the patient to places with fresh air. If the patient does not feel well, please get medical aid as soon as possible. Skin contact: Clean with soap and clean water. If the irritation persists or gets worse, please get medical aid right away. Eye contact: Flush eyes with clear water at least 15 minutes; and if the irritation persists, please sent to the hospital as soon as possible. Ingestion: If the patient does not feel well, please sent to the hospital immediately.
The most important symptom(s) and harmful effect(s): None
Protection of the first-aid personnel: None
Advice for the doctor: None

5. Fire-fighting measures

Fire extinguishing agents: Water spray, foam, powder, CO ₂
Possible danger during firefighting: Choke by the smoke

Special fire-fighting procedures: None

Special protection gears for fire-fighter: Inhalation device, protective glove, fire-protective clothes.

6. Accidental leakage measures

Personal protection: None

Environmental precautions: None

Cleanup methods: It is suggested to clean up the spill with sand, soda powder or other absorbent materials and place into a suitable disposal container.

7. Safety management and storage methods

Management: Avoid storing in a moist or high temperature environment.

Storage: Avoid storing in a moist or high temperature environment.

8. Exposure controls/personal protection

Engineering measures: ---

Control parameter			
TWA	STEL	CEILING	BEIs
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Personal protective equipment (PPE):
 It may cause allergy; therefore, it is recommended to put on following personal protective equipment.
 (Breathe): Wear mask
 (Hands): Wear protective gloves to avoid skin contact.
 (Eyes): Wear protective glasses.
 (Skin and Body): Wear protective clothes to avoid skin contact.

Health measure: Wash hands thoroughly afterwards.

9. Physical and chemical properties

State: Powder Color: Grey white to brown	Smell: Zymotic odor
Threshold value of Smell: None	Melting point: Decomposes without melting
pH: 4.5-6.5	Boiling point: not applicable
Flammability (Solid, Gas): None	Flash point: not applicable Test method: None
Self-inflammation point: ---	Exploring limit: ---
Steam pressure (mm Hg): ---	Steam density (Air=1): ---
Density: ---	Solubility: 1000 g/l (20 ⁰ C), 1200 g/l (80 ⁰ C)
log Kow: None	Volatiles rate: ---

10. Stability and reactivity

Stability: Stable under normal temperature and pressure.
Dangerous reaction under special circumstance: None.
Conditions to avoid: None
Materials to avoid: None.
Hazardous decomposition products: None.

11. Toxicologic information

Explosion method: None.
Symptoms: None.
Acute toxicity: Dermal- Repeated exposure may cause allergy Inhalation- Dust may cause allergy Eyes- Dust may cause irritation
Chronic toxicity or Long-term toxicity: Repeated exposure may cause allergy. Mammals - Acute oral LD ₅₀ (mg kg ⁻¹) > 5050, Mammals - Dermal LD ₅₀ (mg kg ⁻¹ body weight) 5000

12. Ecological information

Eco-toxicity: Mammals - Acute oral LD ₅₀ (mg kg ⁻¹) > 5050, Mammals - Dermal LD ₅₀ (mg kg ⁻¹ body weight) 5000 Fish - Acute 96 hour LC ₅₀ (mg l ⁻¹) 0.656 Aquatic invertebrates - Acute 48 hour EC ₅₀ (mg l ⁻¹) 13 Other arthropod (1) LR ₅₀ g ha ⁻¹ Harmless
Durability and degradability: Soil degradation (days) (aerobic) DT ₅₀ (typical) 2.7
The biology stores up the nature: ---
In-soil fluidity: ---
Other poor effects: ---

13. Disposal Methods

Handling methods: 1. Dispose materials according to relevant environmental laws and regulations 2. Contact licensed professional waste disposal service for disposal.

14. Transportation information

DOT Shipping Class: 70
UN No.: ---
Hazard class: ---

Air transport: ICAO-TI-IATA-DGR, Class: not registered
Sea pollutants (Yes/No): No.
Transport classification and labeling: None

15. Regulatory information

Classification and labeling: Not classified as hazardous.

16. Other information

Reference	---	
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