



MATERIAL SAFETY DATA SHEET

BIO – T PLUS

Date: 12/5/2018

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name	BIO – T PLUS
Chemical name	Bacillus thuringiensis var. Kurstaki
Company	Bio Dalia Microbiological Technologies.
Address	19239 Kibbutz Dalia, Israel.
Phone	972-4-9897257/68
Fax	972-4-9897256

2. COMPOSITION / INFORMATION ON INGREDIENTS

Suspension concentrate (SC)	
Active Ingredient: <i>Bacillus thuringiensis</i> var. <i>Kurstaki</i> , 16000 International	
Units (ITU) per milligram -	1.2% (Equivalent to 1.28 billion ITU/LITER)
Formulation -	8.0%
Inert fermentation remains -	6.8%
Water -	Approx. 84%
Total -	100.0%

3. HAZARDS INFORMATION

Specific risks	May be irritant to eyes, skin and respiratory system.
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4. FIRST AID MEASURES

Symptoms and effects	Irritating to eyes and to skin. Irritating to respiratory system.
General	In all cases of doubt, or when symptoms persist, seek medical advice.
Eye contact	Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation persist. In case of inadequate first aid measures there is a possibility of persistent effect to the eye .



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Skin contact	Remove contaminated clothing. After contact with skin, wash immediately with soap and plenty of water. Seek medical advice if irritation develops. Wash clothes before reuse.
Inhalation	Not likely to occur.
Ingestion	Rinse mouth with water. Do not drink. Do not induce vomiting because of risk of aspiration. Seek medical advice.
Advice to physician	For further advice call phone number: 972-4-8541900, Israeli poison Information center.

5. FIRE FIGHTING MEASURES

Extinguishing media	All extinguishing products are allowed; Not flammable (aqueous).
Unsuitable extinguishing media	None known.
Special exposure hazards	None known.
Protective equipment	No special equipment needed.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with eyes and skin.
Personal protection	Wear safety goggles, gloves.
Environmental precautions	None , safe for the environment.
Tolerance	Exempt on all raw agricultural commodities when applied preharvest or postharvest to growing crops.
Other information	For personal protection see Section 8.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes.
Storage	Store in a cool dry area. Temperature should not be above 28°C for long shelf life. Recommended storage temperature: 4°C. To maintain quality protect from frost.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits	No exposure limit has been established.
Personal protection:	Avoid contact with eyes and skin.
Respiratory	No specific recommendations.
Hand protection	Gloves.
Eye protection	Safety goggles.
Skin and body protection	Suitable clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Viscous Liquid
Colour	Brown
Odor	Typical
pH value	4.5 ± 0.5
Melting point	NA
Boiling point	NA
Flash point	Not applicable (aqueous)
Solubility in water	100% Dispersion in cold water
Solubility in other solvents	Not determined
Flammability	NA
Autoignition temperature	NA
Explosive properties	None
Explosion limit	NA
Oxidizing properties	None
Vapour pressure	As water.
Density	Approx. 1020 g/l(20 °C).
Bulk density	Not applicable.

10. STABILITY AND REACTIVITY

Stability	No decomposition if stored and handled properly.
Conditions to avoid	Do not store above 28°C . Do not freeze . Do not expose to the sun .
Materials to avoid	Do not expose to oxygen, acids and bases.
Hazardous decomposition products	No typical hazardous decomposition products known.



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11. TOXICOLOGICAL INFORMATION

Name	BIO - T PLUS	
Active ingredient	Delta-endotoxin crystals and viable spores of <i>Bacillus thuringiensis</i> , var. <i>Kurstaki</i> (B.t.k.)	
Acute toxicity	Non toxic and non harmful effects on humans, domestic animals, wildlife, beneficial insects, fish and other aquatic life.	
Toxicity:		
Acute oral toxicity in rat, LD 50 (OECD 423)		>2000 mg/kg
Acute dermal toxicity in rat, LD 50 (OECD 402)		>2000 mg/kg
Acute inhalation toxicity in rat, LC 50 (OECD 403)		>1.27 mg/L air
Irritation:		
Acute dermal irritation in rabbit (OECD 404)		No classified
Acute eye irritation in rabbit (OECD 405)		No classified
Skin sensitization potential (OECD 429)		May cause an allergic skin reaction

12. ECOLOGICAL INFORMATION

Information	Readily biodegradable. Non toxic . Non harmful effects on humans, domestic animals, wildlife, beneficial insects, fish and other aquatic life. Safe for the environment. Tolerance exempt on all raw agricultural commodities when applied preharvest or postharvest to growing crops.
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13. DISPOSAL CONSIDERATIONS

Product	Pesticide Disposal - may be disposed of on site or at an approved waste disposal facility.
Contaminated packaging	Container Disposal - triple rinse, then puncture and dispose of in a sanitary landfill, or if allowed by authorities, by burning. Do not reuse container.



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14. TRANSPORT INFORMATION

UN NUMBER -	NA
ADR/AID	Not regulated
ICAO/IAT	Not regulated
IMDG	Not regulated
OTHER INFORMATION	Protect material from direct sunlight. Containers must be stored in shaded area. Temperature must be below 28°C

15. REGULATORY INFORMATION

Product label name	BIO – T PLUS
Registration	Registered in ISRAEL Registration no. 1306/צה/94, 7088/צה/00 for organic Agriculture, by the ministry of agriculture plant protection and inspection services, Israel. Certified for use in agriculture and organic agriculture.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guaranty for any specific product features and shall not establish a legally valid contractual relationship.

Approval date: 12 May 2018

Revision: 4.0

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