



BIO ORGANIC LIMITED

(Dealers and Distributors of Fertilizers, Pesticides, Seeds, Veterinary and Industrial Chemicals)

MATERIAL SAFETY DATA SHEET (MSDS)

BIOBAT 0.5 WP

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY UNDERTAKING

Product Name: Bacillus thuringiensis
Product Information: Soil conditioning agent of agricultural importance
Company Name: Varsha Bioscience and Technology India Private Limited
Address: SURVEY NO. 253/A, JIBLAKPALLY (V), DOTHIGUEDEM (G.P)
BOODHAN POCHAMPALLY, Nalgonda, Telangana – 508284. INDIA.
Phone No: +91-9789092341
Email id: international@varshabioscience.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Technical Name: *Bacillus thuringiensis var kurstaki*
Product Code: Nil
Hazardous Ingredients / Components: Nil
CAS No. 7727-43-7
Other Components: Risk Phrases & Symbol – R36 (Mild)
for e.g.: Xi = Irritant, R36 = Irritating to eyes, R37 = Irritating to respiratory system, R38 = Irritating to skin

3. HAZARDS IDENTIFICATION

Health: Inhalation Odorless
Skin Contact Not harmful
Eye Contact Mild Irritant
Ingestion Non-toxic & Non-virulent
Fire: Non flammable

4. **FIRST — AID MEASURES** Non-toxic. If accidentally swallowed more quantity above 100gms, induce vomiting and give *Lactobacillus sporogens* mixed with water.

5. FIRE FIGHTING MEASURES

Extinguishing media: Non-flammable
Fire Fighting Protective Equipment: NA
Specific Hazards: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use gloves while handling, wash the hand with soap
Environmental precautions: Bury the container and remaining material away from habitants at 0.5 m deep in soil.
Method for cleaning up: Use copious water to clean the spill.

7. HANDLING AND STORAGE

Handling: Use goggles, face masks, gloves and protective covering while use.
Storage: Store in a room temperature away from sunlight.
Keep out of reach of children, foods and animal feed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures
Respirators Use face masks
Eye Protection Use goggles
Personal protective equipment: Use protective clothing
Gloves Yes
Occupational Exposure Limits: Non-hazardous ingredients

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White fine powder
Form: Powder formulation
Colour: Pale white



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Odour:	Earthy odour
PH (Value):	6.0-7.8
Boiling Point:	Not determined
Melting Point:	150°C
Flash Point:	116
Flammable Limits:	Not flammable
Auto Ignition Temperature:	Not flammable
Explosive Properties:	Nil
Oxidising Properties:	Nil
Vapour Pressure (mm Hg):	Not determined
Density (g/ml):	2.7g/cm ³ at 20°C
Solubility (Water):	Insoluble, but miscible in water
Solubility (Other):	Not soluble in majority of chemical solvents
Partition Coefficient:	NA

10. STABILITY AND REACTIVITY

Hazardous Reactions:	None
Hazardous Decomposition Product(s):	No dangerous decomposition products known
Conditions to avoid:	Do not heat and do not expose to direct sunlight
Materials to avoid:	Do not mix with fungicides, acids, alkali materials.

11. TOXICOLOGY INFORMATION

Inhalation (LC50):	Non-toxic, Non-virulent
Skin Contact (Dermal — LD50):	No skin irritant.
Ingestion (Oral — LD50):	Non toxic
Acute intraperitoneal toxicity:	Non- pathogenic, Non-toxic and Non-virulent on Wistar rats
Pathogenicity:	Non- pathogenic

12. ECOLOGICAL INFORMATION

Environmental Hazards:	Nil
Persistence and Degradation:	Not persistent and no dangerous decomposition products known
Toxicity:	Nil
Effect on Effluent Treatment:	Nil

13. DISPOSAL CONSIDERATIONS

Product & contaminated packaging: Bury the container and remaining material away from habitants at 0.5 m deep in soil.

14. TRANSPORT INFORMATION

IATA:	Non-dangerous goods
ADR:	Non-dangerous goods
IMO:	Non-dangerous goods

UN NO: Non-dangerous goods

15. REGULATORY INFORMATION

Classification and labelling Danger symbol:	Organic certified and Non-toxic
Danger Label:	Green Rhombus
Safety phrases:	Green, Organic

16. OTHER INFORMATION Nil

For Varsha Bioscience and Technology
India Private Limited


(A. John Peter)
Managing Director