

BIOPROTEC® PLUS

AQUEOUS BIOLOGICAL INSECTICIDE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Bioprotec PLUS	MANUFACTURER:	AEF GLOBAL INC. 925 des Calfats Levis, Quebec, Canada G6Y 9E8
ACTIVE INGREDIENT:	<i>Bacillus thuringiensis</i> ssp. <i>kurstaki</i>	EMERGENCY TELEPHONE NUMBERS:	Office hours: 1-866-622-3222 (toll free) 1-418-838-4441
USE:	Biological insecticide		
CAS NUMBER:	68038-71-1		
CAS NAME:	<i>Bacillus thuringiensis</i>		

2. HAZARDS IDENTIFICATION

CLASSIFICATION :	Eye irritant Category 2B	ACUTE EFFECTS:	
SIGNAL WORD :	CAUTION	INHALATION:	None known to exist
PICTOGRAM :	Not required	SWALLOWING:	None known
HAZARD STATEMENT :	EYE IRRITANT	SKIN ABSORPTION:	CAUTION: Harmful if absorbed through skin.
PRECAUTIONS :	POTENTIAL SENSITIZER. CAUTION EYE IRRITANT. Avoid contact with skin, eyes or clothing. Avoid breathing dust/spray mist.	SKIN/EYE CONTACT:	CAUTION: Causes moderate eye irritation.
TLV AND SOURCE:	None established by ACGIH or OSHA.	CHRONIC HEALTH EFFECTS:	Not known to exist
		CARCINOGENICITY:	This material is not considered to be a carcinogen by the NTP, the IARC or the OSHA.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

COMPOSITION:

NAME:	CAS #	% BY WEIGHT
<i>Bacillus thuringiensis</i> ssp. <i>kurstaki</i>	68038-71-1	14.49%

FORMULA: Not applicable

4. FIRST AID MEASURES

SWALLOWING: Rinse mouth and throat with copious amounts of water. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If signs of irritation or toxicity occur, seek medical attention.

SKIN: Wash with copious amounts of water for 15-20 minutes. If irritation persists or signs of toxicity occur, seek medical attention.

INHALATION: Remove from exposure and move person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If signs of toxicity occur, seek medical attention.

EYES: Flush with copious amounts of water. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation persists, seek medical attention.

Take container, label or product name and Registration Number with you when seeking medical attention.

Notes to Physician: *There is no specific antidote if this product is ingested. Treat symptomatically.*

5. FIRE AND EXPLOSION DATA

FLASH POINT:	Not applicable	UNUSUAL FIRE EXPLOSION OR REACTIVITY HAZARD:	None known to exist
FLAMMABILITY:	Not applicable	EXTINGUISHING MEDIA:	No special requirements
SPECIAL FIRE FIGHTING PROCEDURES:	No special requirements	HAZARDOUS COMBUSTION PRODUCT:	None known

6. ACCIDENTAL RELEASE MEASURES

GENERAL INFORMATION: Bioprotec PLUS, an aqueous concentrate, is a biopesticide and no significant adverse effects to humans or the environment are associated with its use.

SPILL OR LEAK PROCEDURES: If spilled on a solid surface, such as road or pavement, dike and absorb with inert material, such as clay or pet litter, sweep up and place in a container for disposal. Flush area with water to dilute remaining material.

7. HANDLING AND STORAGE

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. **CAUTION:** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

STORAGE: Store in the original container between 39°F (4°C) and 68°F (20°C) to ensure microbial purity and potency. Use product within 18 months of the date of manufacture. Store container upright and keep tightly closed when not in use. After extended storage, shake or stir contents to assure a uniform suspension.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

VENTILATION: Local exhaust as necessary.

PERSONAL PROTECTION:

RESPIRATORY PROTECTION: None required under usual conditions of use. If potential exposure to aerosol in enclosed, poorly ventilated area, use air purifying respirator with dust/mist filter if necessary.

PROTECTIVE GLOVES: None required under usual conditions of use.

EYE PROTECTION: None required under usual conditions of use. To avoid eye contact, wear safety glasses with side shields or chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light brown liquid suspension	SOLUBILITY:	Disperses in water
ODOUR:	Slight acidic odor	pH:	5.0 – 5.6
MELTING POINT:	Not applicable	VAPOR PRESSURE:	Not available
BOILING POINT:	100°C	% VOLATILES/VOLUME:	Not available
SPECIFIC GRAVITY:	1.09 – 1.11		

10. STABILITY AND REACTIVITY DATA

STABILITY:	Stable	INCOMPATIBILITY (MATERIALS TO AVOID):	None known
HAZARDOUS POLYMERIZATION:	Will not occur	HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:	None known
CONDITIONS TO AVOID:	None known		

11. TOXICOLOGICAL INFORMATION

GENERAL INFORMATION: Bioprotec PLUS, an aqueous concentrate, is a biopesticide and no significant adverse effects to humans are associated with its use. Treat symptomatically.

TOXICITY DATA: Not available

12. ECOLOGICAL INFORMATION

GENERAL INFORMATION: Bioprotec PLUS, an aqueous concentrate, is a biopesticide and no significant adverse effects to the environment are associated with its use. As this pesticide is not registered for the control of pests in aquatic system, do not use to control aquatic pest.

ECOLOGICAL TOXICITY DATA: Not available

13. DISPOSAL CONSIDERATIONS

GENERAL INFORMATION: Dispose of product containers and waste product in accordance with provincial regulations and label instructions.

14. TRANSPORT INFORMATION

UN NUMBER:	Not applicable	PACKING GROUP:	Not applicable
TDG CLASSIFICATION:	Not regulated	SPECIAL SHIPPING INSTRUCTION:	Not applicable

15. OTHER REGULATORY INFORMATION

FEDERAL REGULATIONS: EPA Registration. NO: 89046-12

This pesticide product is subject to certain labeling requirements under federal pesticide law.

16. OTHER INFORMATION

SUPPLEMENTAL INFORMATION: The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made by AEF Global Inc. with respect to the information contained herein.

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For more information, refer to the label. You can also visit www.aefglobal.com.