

VIROSOFT^{CP4}**BIOTEPP INC**

BIOLOGICAL TECHNOLOGIES FOR ECOLOGICAL PLANT PROTECTION

**MSDS
(Material Safety Data Sheet)****Product Identification**

Product use: control of codling moth larvae
MSDS Number: CP4-2000/1
Effective Date: December 1, 2000
PMRA Registration No.: 26533 PEST CONTROL PRODUCTS ACT
EPA Registration No.: 72898 - 2
EPA Establishment No.: 72898 - CDN - 001

In Case of Emergency call: 1-418-786-2999**OR (418) 659-4446****9:00 a.m. to 5:00 p.m. Eastern Time****Composition:**

Codling moth Granulovirus from the North American Ecozone 4
Cell debris including proteins, fatty acids, sugars, and ions
Intestinal insect bacteria and fungi from insect rearing
Water

Note: All constituents of this product are naturally occurring substances to which humans and livestock are exposed to on a routine basis without harm or significant effect.

Physical and Chemical Properties:

Appearance: liquid
Odor: slight
Boiling point: 100°C
pH: 5.5 - 7.5
Evaporation rate: same as water
Freezing point: 0°C

Ecological Information:

Toxicity to bees: none
Toxicity to parasitoids: none
Toxicity to other invertebrates: none
Toxicity to fish: none
Toxicity to birds: none
Toxicity to mammals: none
Toxicity to other insects: none found

Toxicological Information:

Skin reaction: slight rash possible
Ingestion: no reaction
Inhalation: no reaction

Degradation and Metabolism:

Baculoviruses occur naturally in the environment, including on the surfaces of fruit, vegetables, crops, plants in general, and in the soil. They can be destroyed by direct exposure to sunlight but are otherwise resistant to freezing and draught.

Hazard Identification:

Potential Health Effects: Baculoviruses have been shown to be completely safe to all mammals on which they have been tested. As to the cell debris originating from the codling moth larvae, hazards are not likely.

May cause sensitization. Avoid contact with skin, eyes, and clothing.

Eye Contact: May cause eye irritation. In case of accidental contact, rinse eyes thoroughly with water.

Handling and Storage:

Keep away from children, food, and feedstuff. Avoid contact with skin, eyes, and clothing.

Store product away from direct sunlight.

Virosoft^{CP4} now is sent in a frozen suspension, ready to be mixed. When received, the best conditions to insure its stability and morbidity strength are that it be kept frozen or at one (1) degree Celsius (thirty-four (33) degrees Fahrenheit). Frozen stored product has a viable shelf life of at least 12 months. May cause sensitization.

Transportation Information:

No special requirements other than avoidance of temperatures above 20°C (68°F).

Disposal Considerations:

Triple- or pressure-rinse the empty container. Add the rinsing to the spray mixture in the tank. Follow provincial instruction for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on disposal of unused or unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Fire-Fighting Measures:

Flash point: not applicable

Extinguishing media: use extinguishing media appropriate for controlling the surrounding fire.

Special methods for fire prevention: none

Spills:

Hose area with water. Do not contaminate food or feedstuff.

Skin contact: may cause skin irritation. In case of accidental contact, rinse skin with water.
Ingestion: Small amounts swallowed incidentally to industrial handling are not likely to cause injury. Rinse mouth with water.
Inhalation: no effects have been found in animal studies or have been reported from human exposure.
Chronic effects: not a likely hazard
Cancer: not a likely hazard
Birth Defects: not a likely hazard
Reproductive Effects: not a likely hazard
Mutagenic effects: not a likely hazard

First Aid Measures:

If in eyes: 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 or sensitization occurs and persists, seek medical attention.

If on skin: Remove contaminated clothing immediately and rinse skin with plenty of water for 15-20 minutes. If irritation or sensitization occurs and persists, seek medical attention. Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

Eyes: no reaction

Protective Measures:

Baculoviruses are known to be safe to humans and mammals. Protective measures would apply to insect debris and are prescribed by law to be overalls, waterproof gloves, shoes plus socks, and protective eyewear, goggles, or a protective face shield. Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI) of 4 hours.

12 January, 2004