

Helicovex

Last review 17/01/2023 PCP# 33169

Section 1	Identification of the mixture and of the Company	
1.1	Product identifier	
	Product Name	Helicovex®
	Synonyms	Bolldex, Verpavex
1.2	Relevant identified uses of the m	ixture and uses advised against
	Use of the product	Biological Insecticide
	Uses advised against	N/A
1.3	Details of the supplier of the Safe	·
	Supplier	Andermatt Canada Inc.
	Address	1350 Regent Street
		Fredericton, New Brunswick Canada E3C 2G6
	Phone	+1 (506) 444-5690
	E-mail	info@andermattcanada.ca
1.4	Emergency Telephone Number	4 000 005 0000
	Phone (medical)	1-888-226-8832
Section 2	Hazards Identification	
2.1	Classification of the mixture	
		Not Classified; No hazardous components
2.2	Label elements	
2.3	Other hazards	IN THE CASE OF EYE CONTACT: Rinse cautiously with water for several minutes. Removing existing contact lenses if possible.  Continue rinsing.  Keep out of the reach of children.  Store locked up.  To avoid risks to human health and the environment, comply with the instructions for use.  Contains Helicoverpa armigera nucleopolyhedrovirus. May produce an allergic reaction.  Potential Sensitizer  CAUTION – Eye irritant  This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT).  This mixture does not contain any substance which are very persistent,
		and bioaccumulative (vPvB).
Section 3	Composition/Information on Ingredients	
3.1	Substances	
		This product is a mixture
3.2	Mixtures	
		Helicoverpa armigera nucleopolyhedrovirus  No hazardous component.
Section 4	First Aid Measures	
4.1	Description of first aid measures	



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**General Notes** Change any contaminated or wetted clothing at once. If poisoning

occurs contact a doctor.

Following Inhalation Only possible by exposure to HOT product. Move to fresh air, rest, half

> upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure.

Treat symptomatically is advised.

Following skin contact Remove contaminated clothing. Seek medical advice if irritation

develops. Wash clothes before reuse. After contact with skin, wash

immediately with plenty of water.

Rinse thoroughly with plenty of water for several minutes. Eyelids Following eye contact

should be held away from the eyeball to ensure thorough rinsing.

Following ingestion No typical symptoms and affects known

Advice to physician Treat symptomatically

4.2 Most important symptoms and effect, both acute and delayed

No typical symptoms and effects known.

Indication of any immediate medical attention and special treatment needed. 4.3

None.

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	5.1	Extinguishing media	
		Suitable extinguishing media	Water mist, alcohol resistant foam, carbon dioxide, dry powder
		Unsuitable extinguishing media	Water-jet, foam
	5.2	Special hazards arising from the r	mixture
			Vapors cause coughing
			At elevated temperatures (>200°C), there is a risk of exothermic
			polymerization. At temperatures, >280°C, acrolein may be formed.

Advice for firefighters

Firefighting measures

Section 5

Avoid contact with oxidizing agents. Cool closed containers with water.

Section 6 Accide		Accidental release measures	
	6.1	.1 Personal precautions, protective equipment and emergency procedures	
		Us	e protective clothing. Do not inhale.
	6.2	Environmental precautions	
		im	event entry into drains, waters, sewages, etc. of the product; contact mediately the municipal technical management if the product enters ch bodies.
	6.3	Methods and material for containme	ent and cleaning up
		Bir da coi	the absorbent material to collect spillage (eg. Sawdust, peat, chemical order). Place contaminated absorbent in closable containers. Use a mp cloth to clean floors and other objects after removal of intaminated absorbent. Also place used cleaning materials into insable receptacles.

6.4 Reference to other sections

See personal protective equipment under Section 8 of SDS.

#### Section 7 **Handling and Storage**



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7.1 Precautions for safe handling

The usual precautions for handling chemicals should be observed.

7.2 Conditions for safe storage, including any incompatibilities

Store in original package only. Store in refrigerator (<5°C) for two years.

Store at -18°C for years without any loss of activity.

7.3 Specific end use(s)

Biological Insecticide.

Section 8 Exposure controls/personal protection

8.1 Control parameter

The usual precautionary measures for handling chemicals should be

observed.

8.2 Exposure controls

Eye/Face Protection Use goggles

Skin Protection Use Protective Clothing

Respirator Protection A NIOSH approved mist filtering mask or respirator with any N-95, P-95

or R-95 filter.

Thermal Hazards No specific recommendations

Other information None

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State Liquid (20°C)
Color Grey-brown
Odor Characteristic
Odor Threshold Not determined

pH 6-7

Melting point/freezing point Not determine (not freezing at -18°C)

Initial boiling point and boiling 105-290°C

range

Flash Point Not determined up to 101°C

Evaporation Rate Not determined Flammability Not flammable Upper/Lower flammability Not flammable

or explosive limits

Vapor Pressure
Vapor Density
Relative Density
Solubility(ies)
Partition coefficient: nNot determined
Not determined
Not determined

cotanol/water

Auto-ignition temperature Not determined

Decomposition temperature >200°C

Viscosity 690 mPa x s (at 50 RPM, 20°C)

Explosive Properties Non explosive Oxidising properties Not oxidizing



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9.2	Other Information	
		None

Section 10	Stability and Reactivity	
10.1	Reactivity	
		Not reactive
10.2	Chemical stability	
		No decomposition if stored and handled properly
10.3	Possibility of hazardous reactions	
		None relevant
10.4	Conditions to avoid	
		Temperature >200°C (polymerization, decomposition)
10.5	Incompatible materials	
		Avoid contact with oxidizing agents
10.6	Hazardous decomposition produc	rts
		Acrolein (>280°C)

Section 11	Toxicological	Information

11.1 Information of toxicological effects	11.1	Information of	toxicological	l effects
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Acute toxicity Rat, oral, 5x10<sup>9</sup> granules/kg BW (AcNPV), no adverse effects

Skin corrosion/irritation Rabbit, contact, 0.5mL/animal (2.2x10<sup>13</sup> granula of CpGV/L) for 4 hours,

no adverse effect

Serious eye damage/irritation Rabbit, contact, 0.1mL/eye (2.2x10<sup>13</sup> granula of CpGV/L) for 24 hours,

non-irritating

Respiratory or skin sensitization Guinea pig, inhalation, 35 mg CpGV (7x10<sup>8</sup> granules) per m<sup>3</sup> for 15 mins,

no adverse effects

Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
STOT-single exposure
STOT-repeated exposure
Aspiration hazard
Not determined
Not classified
Not existing
Not existing
Not relevant

#### Section 12 Ecological Information

### 12.1 Toxicity

#### Acute (short-term) toxicity

Fish Oncorhynchus mykiss, 96 hours  $LC_{50} > 100 \text{mg/L} = 2.0 \times 10^9 \text{ CpGV/L}$ Crustacea Daphnia magna, 48 hours  $LC_{50} > 100 \text{mg/L} = 2.0 \times 10^9 \text{ CpGv/L}$ 

Algae/aquatic plants Scenedesmus subspicatus, 72 hours  $EC_{50} > 100 \text{mg/L} = 2.0 \times 10^9 \text{ CpGV/L}$ 

Other organisms  $Lemna\ gibba$ , 7 day  $EC_{50} > 100 \text{mg/L} = 3.1 \text{x} 10^9 \text{ CpGV/L}$ 

Chronic (long-term) toxicity

Fish No data available
Crustacea No data available
Algae/aquatic plants No data available
Other organisms No data available

12.2 Persistence and degradability



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**Abiotic Degradation** На Physical and photo-chemical **UV** light elimination Biodegradation Soil microflora 12.3 Bioaccumulative potential Octanol/water partition Not determined coefficient (Kow) Bioconcentration factor (BCF) Not determined 12.4 Mobility in Soil HearNPV persists in the soil for a fairly long period in the immobilized Known or predicted distribution to state and does not accumulate. environmental compartments Surface tension Not determined Absorption/desorption Not determined 12.5 Results of PBT and vPvB assessment This mixture does not contain any substances that are assessed to be a PBT or a vPvB. 12.6 Other adverse effects

Section 13 Disposal considerations

13.1 Waste treatment methods

12.7 Additional information

Product/Packaging disposal Triple-or pressure rinse the empty container. Add the rinsings to the

None

None

spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for use. Dispose of the container in accordance with provincial regulations. For information on disposal of unused, unwanted product, contact the supplier or the provincial regulatory agency. Contact the supplier or the provincial regulatory

agency in cause of a spill, and for clean-up of spills.

Waste codes/waste designations according to

LoW

Waste treatment-relevant

information

None

Not applicable

Sewage disposal-relevant

information Other disposal Recommendations Waste should not be disposed of by release to sewers

None

Section 14 Transport Information

Inland TransportationNot restrictedSea TransportationNot restricted



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	Air Transportation	Not restricted
Section 15 Regulatory Information		
15.1	Safety, health and environmental	regulations/legislation specific for the mixture
	Authorizations	Not relevant
	Restrictions on use	Not relevant
15.2	Chemical Safety Assessment	
		No Chemical Safety Assessment has been carried out for this mixture by the supplier.
Section 16	Other Information	
		This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for their special use of this product.
	Indication of Changes	
	Date of Review Composed by	January 17, 2023 Laura Forbes, International Business & Regulatory Affairs Manager Andermatt Canada Inc.