

BoVir

Last review 17/01/2023

Section 1	Identification of the mixture and	l of the Company
1.1	Product identifier	
	Product Name	BoVir
	Synonyms	LD or Gypsy Moth Virus, Lymantria dispar nucleopolyhedrovirus
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	
		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 <i>Lymantria dispar</i> nucleopolyhedrovirus. May produce an allergic reaction.
		Potential Sensitizer
		CAUTION – Eye irritant
2.3	Other hazards	Chorien Lycimanic
2.3	other nazaras	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 Ing	redients
3.1	Substances	This was direct in a web-trans
2.2	Mintures	This product is a mixture
3.2	Mixtures	Lumantria disnar nusloonolyhadravisus
		Lymantria dispar nucleopolyhedrovirus
		No hazardous component.
Section 4	First Aid Measures	
4.1	Description of first aid measures	



Section 5

Firefighting measures

SAFETY DATA SHEET

BoVir

Last review 17/01/2023

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 Most important symptoms and effect, both acute and delayed

4.2 Most important symptoms and effect, both acute and delayed
 No typical symptoms and effects known.
 4.3 Indication of any immediate medical attention and special treatment needed.

None.

Section 5	i il eligitting illeasures	
5.1	Extinguishing media	
	Suitable extinguishing media Unsuitable extinguishing media	Water mist, alcohol resistant foam, carbon dioxide, dry powder Water-jet, foam
5.2	Special hazards arising from the mixture	
		Vapors cause coughing At elevated temperatures (>200°C), there is a risk of exothermic polymerization. At temperatures, >280°C, acrolein may be formed.
5.3	Advice for firefighters	
		Avoid contact with oxidizing agents. Cool closed containers with water.

Section 6	Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures	
	Use protective clothing. Do not inhale.	
6.2	Environmental precautions	
	Prevent entry into drains, waters, sewages, etc. of the product; contact immediately the municipal technical management if the product enters such bodies.	
6.3	Methods and material for containment and cleaning up	
	Use absorbent material to collect spillage (eg. Sawdust, peat, chemical Binder). Place contaminated absorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated absorbent. Also place used cleaning materials into closable receptacles.	
6.4	Reference to other sections	
	See personal protective equipment under Section 8 of SDS.	



BoVir

Last review 17/01/2023

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 Brown
Odor Charact

Odor Characteristic
Odor Threshold Not determined
pH Not determined

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

Initial boiling point and boiling Not determined

range

Flash Point Not determined
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 relevant
1.15 g/mL
Soluble in water
Not determined

cotanol/water

Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive Properties
Oxidising properties
Not determined
Not determined
Non explosive
Non explosive
Not oxidizing



BoVir

Last review 17/01/2023

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	ts
		Acrolein (>280°C)
Section 11	Toxicological Information	
11.1	Information of toxicological effect	ts

Section 11	Toxicological Information		
11.1	Information of toxicological effects		
	Acute toxicity	Rat, oral, 5x10 ⁹ granules/kg BW (AcNPV), no adverse effects	
	Skin corrosion/irritation	Rabbit, contact, 0.5mL/animal (2.2x10 ¹³ granula of CpGV/L) for 4 hours, no adverse effect	
	Serious eye damage/irritation	Rabbit, contact, 0.1mL/eye (2.2x10 ¹³ granula of CpGV/L) for 24 hours, non-irritating	
	Respiratory or skin sensitization	Guinea pig, inhalation, 35 mg CpGV (7x10 ⁸ granules) per m ³ for 15 mins, no adverse effects	
	Germ cell mutagenicity	Not determined	
	Carcinogenicity	Not classified	
	Reproductive toxicity	Not classified	
	STOT-single exposure	Not existing	
	STOT-repeated exposure	Not existing	
	Aspiration hazard	Not relevant	
Section 12	Ecological Information		
12 1	Toxicity		

ection 12	Ecological Information	
12.1	Toxicity	
	Acute (short-term) toxicity	
	Fish	Oncorhynchus mykiss, 96 hours $LC_{50} > 100 \text{mg/L} = 2.0 \text{x} 10^9 \text{ CpGV/L}$
	Crustacea	Daphnia magna, 48 hours $LC_{50} > 100$ mg/L = $2.0x10^9$ CpGv/L
	Algae/aquatic plants	Scenedesmus subspicatus, 72 hours $EC_{50} > 100 \text{mg/L} = 2.0 \text{x} 10^9 \text{ CpGV/L}$
	Other organisms	Lemna gibba, 7 day $EC_{50} > 100 \text{mg/L} = 3.1 \times 10^9 \text{ CpGV/L}$
	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 LdMNPV 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 None 12.7 Additional information

Section 13	Disposal	consid	lerations
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13.1 Waste treatment methods

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

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

None

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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Last review 17/01/2023

	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.