

Section 1	Identification of the mixture and	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 mixture and uses advised against		
	Use of the product	Biological Insecticide	
	Uses advised against	N/A	
1.3	Details of the supplier of the Safe	ty Data Sheet	
	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		
	Phone (medical)	1-888-870-6444	
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 Lymantria dispar nucleopolyhedrovirus. May produce an	
		allergic reaction.	
		Potential Sensitizer	
		CAUTION – Eye irritant	
2.3	Other hazards	·	
		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		
		Lymantria dispar nucleopolyhedrovirus	
		No hazardous component.	
Section 4	First Aid Measures		
4.1	Description of first aid measures		
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Section 7	Handling and Storage	
		See personal protective equipment under Section 8 of SDS.
6.4	Reference to other sections	
		contaminated absorbent. Also place used cleaning materials into closable receptacles.
		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
6.3	Methods and material for contain	
		Prevent entry into drains, waters, sewages, etc. of the product; contact immediately the municipal technical management if the product enters such bodies.
6.2	Environmental precautions	
		Use protective clothing. Do not inhale.
6.1	Personal precautions, protective	equipment and emergency procedures
Section 6	Accidental release measures	
5.3	Advice for firefighters	Avoid contact with oxidizing agents. Cool closed containers with water.
5.2	Advice for firefighters	At elevated temperatures (>200°C), there is a risk of exothermic polymerization. At temperatures, >280°C, acrolein may be formed.
		Vapors cause coughing
5.2	Special hazards arising from the r	nixture
	Unsuitable extinguishing media	Water-jet, foam
	Suitable extinguishing media	Water mist, alcohol resistant foam, carbon dioxide, dry powder
5.1	Extinguishing media	
Section 5	Firefighting measures	
4.3	indication of any inificulate filed	None.
4.3	Indication of any immediate med	ical attention and special treatment needed.
4.2	wost important symptoms and e	No typical symptoms and effects known.
4.2	Advice to physician Most important symptoms and e	Treat symptomatically ffect both acute and delayed
	Following ingestion	No typical symptoms and affects known
	Following eye contact	immediately with plenty of water. Rinse thoroughly with plenty of water for several minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.
	Following skin contact	is difficulty in breathing. Seek medical advice after significant exposure.Treat symptomatically is advised.Remove contaminated clothing. Seek medical advice if irritationdevelops. Wash clothes before reuse. After contact with skin, wash
	General Notes Following Inhalation	Change any contaminated or wetted clothing at once. If poisoning occurs contact a doctor.Only possible by exposure to HOT product. Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there
	Constant Nation	



7.1	Precautions for safe handling		
	5	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 prot	ection	
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 Propertie		
9.1	Information on basic physical and		
	Physical State	Liquid (20°C)	
	Color	Brown	
	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 range	Not determined	
	Flash Point	Not determined	
	Evaporation Rate	Not determined	
	Flammability	Not flammable	
	Upper/Lower flammability	Not flammable	
	or explosive limits		
	Vapor Pressure	Not determined	
	Vapor Density	Not relevant	
	Relative Density	1.15 g/mL	
	Solubility(ies)	Soluble in water	
	Partition coefficient: n- cotanol/water	Not determined	
	Auto-ignition temperature	Not determined	
	Decomposition temperature	Not determined	
	Viscosity	Not determined	
	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 products Acrolein (>280°C) Section 11 **Toxicological Information** 11.1 Information of toxicological effects Rat, oral, 5x10⁹ granules/kg BW (AcNPV), no adverse effects Acute toxicity Skin corrosion/irritation Rabbit, contact, 0.5mL/animal (2.2x10¹³ granula of CpGV/L) for 4 hours, no adverse effect Rabbit, contact, 0.1mL/eye (2.2x10¹³ granula of CpGV/L) for 24 hours, Serious eye damage/irritation non-irritating Guinea pig, inhalation, 35 mg CpGV (7x10⁸ granules) per m³ for 15 mins, Respiratory or skin sensitization no adverse effects Not determined Germ cell mutagenicity Not classified Carcinogenicity 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 Acute (short-term) toxicity Oncorhynchus mykiss, 96 hours $LC_{50} > 100 mg/L = 2.0 x 10^9 CpGV/L$) Fish Daphnia magna, 48 hours $LC_{50} > 100 mg/L = 2.0 x 10^9 CpGv/L$ Crustacea Algae/aquatic plants Scenedesmus subspicatus, 72 hours $EC_{50} > 100 mg/L = 2.0 \times 10^9 CpGV/L$ Lemna gibba, 7 day $EC_{50} > 100 mg/L = 3.1 \times 10^9 CpGV/L$ Other organisms 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



	Abiotic Degradation	рН
	Physical and photo-chemical elimination	UV light
	Biodegradation	Soil microflora
12.3	Bioaccumulative potential	Son meronora
	Octanol/water partition	Not determined
	coefficient (Kow)	
	Bioconcentration factor (BCF)	Not determined
12.4	Mobility in Soil	
	Known or predicted	LdMNPV persists in the soil for a fairly long period in the immobilized
	distribution to	state and does not accumulate.
	environmental compartments	
	Surface tension	Not determined
40 5	Absorption/desorption	Not determined
12.5	Results of PBT and vPvB assessm	
		This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
12.6	Other adverse effects	
12.0	Other adverse effects	None
12.7	Additional information	
		None
Section 13	Disposal considerations	
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.
	Product/Packaging disposal Waste codes/waste designations according to LoW	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
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	Waste codes/waste designations according to LoW Waste treatment-relevant information Sewage disposal-relevant	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. Not applicable
Section 14	Waste codes/waste designations according to LoW Waste treatment-relevant information Sewage disposal-relevant information Other disposal	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. Not applicable None Waste should not be disposed of by release to sewers
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Section 14	Waste codes/waste designations according to LoW Waste treatment-relevant information Sewage disposal-relevant information Other disposal Recommendations Transport Information	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. Not applicable None Waste should not be disposed of by release to sewers None



	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	September 14, 2021 Laura Forbes, International Business & Regulatory Affairs Manager Andermatt Canada Inc.