

Helicovex

SAFETY DATA SHEET According to regulation (EC) No. 1907/2006 and its amendment regulation (EC) No. 2020/878

Last review 04.04.2023

Version 002	
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Section 1	Identification of the mixture	and of the company
	Product identifier	
1.1	Product name	Helicovex
		Bolldex, Verpavex
10	Synonyms Relevant identified uses of the	
1.2		e mixture and uses advised against
	Use of the product	Biological insecticide
1.0	Uses advised against	
1.3	Details of the supplier of the S	•
	Supplier	Andermatt Biocontrol Suisse AG
	Address	Stahlermatten 6
		6146 Grossdietwil
	Phone (technical)	+41 (0)62 917 52 50
	E-mail	contact@biocontrol.ch
1.4	Emergency telephone numbe	
	Phone (medical)	+41 (0)44 251 5151 (Swiss Toxicology Centre)
Section 2	Hazards identification	
2.1		
		Classification according to Regulation (EC) No 1272/2008 [CLP] This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
2.2	Label elements	
		Store locked up. Keep out of the reach of children To avoid risks to human health and the environment, comply with the instructions for use. Contains Helicoverpa armigera nucleopolyhedrovirus. Microorganisms may have the potential to provoke sensitising reactions.
2.3	Other hazards	
		This mixture does not contain any substances, which are persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) or endocrine disruptors.
Section 3	Composition/information or	n ingredients
3.1	Substances	
		This product is a mixture
3.2	Mixtures	
		Helicoverpa armigera nucleopolyhedrovirus No hazardous component according to Regulation (EC) No 1272/2008 [CLP]
Section 4	First aid measures	
4.1	Description of first aid measu	
	General notes Following inhalation	If medical advice is needed, have product container or label at hand. Change any contaminated or wetted clothing at once. If poisoning occurs contact a doctor or Swiss Toxicology Centre. 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
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	Following skin contact Following eye contact Following ingestion Advice to physician	after significant exposure. Symptomatic treatment is advised. Remove contaminated clothing. Seek medical advice if irritation develops. Launder clothes before reuse. After contact with skin, wash immediately with plenty of water. Rinse thoroughly with plenty of water. Eyelids should be hold away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops. No typical symptoms and effects known Symptomatic treatment
4.2		d effects, both acute and delayed
		No typical symptoms and effects known.
4.3	Indication of any immediate m	nedical attention and special treatment needed
	,	None
Section 5	Firefighting measures	
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 t	he mixture
		Vapours 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 measure	S
6.1	Personal precautions, protect	ive equipment and emergency procedures
		Use protective clothing. Do not inhale.
6.2	Environmental precautions	
0.2	Entri entri entre procedutione	
0.2		Prevent entry into drains, waters, sewages etc. of the product; contact immediately the municipal technical management if the product enters such bodies.
	Methods and material for cont	contact immediately the municipal technical management if the product enters such bodies. tainment and cleaning up
		contact immediately the municipal technical management if the product enters such bodies.
6.3		contact immediately the municipal technical management if the product enters such bodies. tainment and cleaning up Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used
6.3 6.4	Methods and material for cont	contact immediately the municipal technical management if the product enters such bodies. tainment and cleaning up Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used
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6.3 6.4 Section 7 7.1	Methods and material for cont Reference to other sections Handling and storage Precautions for safe handling	contact immediately the municipal technical management if the product enters such bodies. tainment and cleaning up Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used cleaning materials into closable receptacles. See personal protective equipment under Section 8 of SDS. The usual precautions for handling chemicals should be observed
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6.3 6.4 Section 7 7.1 7.2	Methods and material for cont Reference to other sections Handling and storage Precautions for safe handling Conditions for safe storage, in	contact immediately the municipal technical management if the product enters such bodies. tainment and cleaning up Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used cleaning materials into closable receptacles. See personal protective equipment under Section 8 of SDS. The usual precautions for handling chemicals should be observed
6.3 6.4 Section 7 7.1 7.2	Methods and material for cont Reference to other sections Handling and storage Precautions for safe handling	contact immediately the municipal technical management if the product enters such bodies. tainment and cleaning up Use adsorbent material to collect spillage (e.g. sawdust, peat, chemical binder). Place contaminated adsorbent in closable containers. Use a damp cloth to clean floors and other objects after removal of contaminated adsorbent. Also place used cleaning materials into closable receptacles. See personal protective equipment under Section 8 of SDS. The usual precautions for handling chemicals should be observed cluding any incompatibilities Store in original package only. Stored in the refrigerator (< 5°C) for two years. Stored at -18°C for years without any loss of



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Biological Insecticide

Section 8 Exposure controls/personal protection 8.1 Control parameters The usual precautionary measures for handling chemicals should be observed 8.2 Exposure controls Eye/face protection No specific recommendations Skin protection Use protective clothing Respiratory protection No specific recommendations Thermal hazards No specific recommendations Other information None Section 9 Physical and chemical properties Information on basic physical and chemical properties 9.1 Physical state Liquid (20°C) Colour Grey-brown Odour Characteristic Melting point/freezing point Not determined (is not freezing at -18°C) Initial boiling point and 105-290°C boiling range Flammability Not flammable Lower and upper explosion Not flammable limit or flammability Flash point Not determined up to 101°C Auto-ignition temperature Not determined >200°C Decomposition temperature 6-7 pН 690 mPa × s (at 50 RPM, 20°C) Kinematic viscosity Solubility Suspendable in water Partition coefficient n-Not determined octanol/water Not determined Vapour pressure Relative density 1.16 (g/ml) Relative vapour density Not relevant Particle characteristics Not applicable 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 Not relevant 10.4 Conditions to avoid Temperature >200°C (polymerization, decomposition) 10.5 Incompatible materials

Avoid contact with oxidizing agents Page **3** of **6**



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	10.6	Hazardous decomposition pro	oducts
			Acrolein (>280°C)
Section '	11	Toxicological information	
-	11.1	Information on hazard classes	as defined in Regulation (EC) No 1272/2008
		Acute toxicity Skin corrosion/irritation	Rat, oral, 5×10^9 granules /kg BW (AcNPV), no adverse effects Rabbit, contact, 0.5 mL/animal (2.2 × 10 ¹³ granula of CpGV/L) for 4 h, no adverse effect
		Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	Rabbit, contact, 0.1 mL/eye (2.2×10^{13} granula of CpGV/L) for 24 h, non-irritating Guinea pig, inhalation, 35 mg CpGV (7×10^8 granules) per m ³ for 15 min, no adverse effects Not determined
		Carcinogenicity	Not classified
		Reproductive toxicity	Not classified
		STOT-single exposure	Not existing
		STOT-repeated exposure	Not existing
		Aspiration hazard	Not relevant
11.2		Information on other hazards	N
			Not applicable
Section 2	12	Ecological information	
		Toxicity	
		Acute (short-term) toxicity	
		Fish	Oncorhynchus mykiss, 96 hour $LC_{50} > 100 \text{ mg/L} = 2.0 \times 10^9 \text{ CpGV/L}$
		Crustacea	Daphnia magna, 48 hour $LC_{50} > 100 \text{ mg/L} = 2.0 \times 10^9 \text{ CpGV/L}$
		Algae/aquatic plants	Scenedesmus subspicatus, 72 hour $EC_{50} > 100 \text{ mg/L} = 2.0 \times 10^9 \text{ CpGV/L}$
		Other organisms Chronic (long-term) toxicity	<i>Lemna gibba</i> , 7 day EC_{50} > 100 mg/L = 3.1 x 10 ⁹ CpGV/L
		Fish	Not determined
		Crustacea	Not determined
		Algae/aquatic plants	Not determined
		Other organisms	Not determined
1	12.2	Persistence and degradability	
		Abiotic Degradation	рН
		Physical- and photo- chemical elimination	UV light
		Biodegradation	Soil microflora
1	12.3	Bioaccumulative potential	
		Octanol/water partition coefficient (Kow)	Not determined
		Bioconcentration factor (BCF)	Not determined
1	12.4	Mobility in soil	
		Known or predicted distribution to environmental compartments	Baculoviruses persist in the soil for a fairly long period in the immobilised state and do not accumulate.
		Surface tension	Not determined
		Adsorption/Desorption	Not determined
1	12.5	Results of PBT and vPvB asse	essment



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			This mixture does not contain any PBT or vPvB substances
	12.6	Other adverse effects	
			None
	12.7	Additional information	
			None
Section	13	Disposal considerations	
	13.1	Waste treatment methods	
		Product/Packaging disposal	Use pressure rinsing devices or triple rinsing with water to reduce any product residues in the container to insignificant levels. Don't dispose product or containers on ponds, rivers or ditches. Don't re-use containers for other purposes. Waste disposal and recycling contractors will take cleaned containers. Waste resulting from the use of the product must be disposed on site or on an approved waste disposal facility. Waste should not be disposed of by release to sewers. Empty the sprayer out in the field being treated by spraying out on to a relatively pest free part of the field left unsprayed or under-dosed for the crop.
Section	14	Transport Information	
14.1		UN number or ID number	N
44.0		TIN1	Not applicable
14.2		UN proper shipping name	Nie lander en en ele
14.3		Trepenent becaudeless(se)	No dangerous goods
14.3		Transport hazard class(es)	Net englische
1 1 1		Decking group	Not applicable
14.4		Packing group	Natappliashla
445			Not applicable
14.5		Environmental hazards	Net en inementelle benerde in
44.0			Not environmentally hazardous
14.6		Special precautions for user	Netenslieskie
4 4 7		NAR within a transmission of the local second	Not applicable
14.7		Maritime transport in bulk acc	
			Not applicable
Section	15	Regulatory information	
	15.1	Safety, health and environme	ntal regulations/legislation specific for the mixture
		Authorisations	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 his special use of this product.
	i	Indication of changes	



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Precautionary phrase adapted according to regulation (EC) No EC 283/2013 10.04.2025

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