

Version 001

SAFETY DATA SHEET

Helicovex

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

Section 1	Identification of the mixture and of the company	
1.1	Product identifier	
	Product name	Helicovex
	Synonyms	Bolldex, Verpavex
1.2		e mixture and uses advised against
	Use of the product	Biological insecticide
	Uses advised against	
1.3	Details of the supplier of the S	•
	Supplier	Andermatt Group AG
	Address	Stahlermatten 6
		6146 Grossdietwil
	Phone (technical)	+41 (0)62 552 40 00
	E-mail	contact@andermatt.com
1.4	Emergency telephone numbe	r
	Phone (medical)	+41 (0)44 251 5151 (Swiss Toxicology Centre)
Section 2	Hazards identification	
2.1	Classification of the mixture	
		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. May
		produce an allergic reaction.
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.
	O	- Second Proofs
Section 3	Composition/information on ingredients	
3.1	Substances	The second sector sector sec
0.0		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 measur	res
	General notes	If medical advice is needed, have product container or label at
		hand.
		Change any contaminated or wetted clothing at once.
	Following inhalation	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
		after significant exposure. Symptomatic treatment is advised.
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		Design of the standard state of the state of
	Following skin contact	Remove contaminated clothing. Seek medical advice if irritation develops. Launder clothes before reuse. After contact with skin,
		wash immediately with plenty of water.
	Following eye contact	Rinse thoroughly with plenty of water. Eyelids should be hold
		away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
	Following ingestion	No typical symptoms and affects known
1.0	Advice to physician	Symptomatic treatment
4.2	Most important symptoms and	d effects, both acute and delayed
4.0	Indication of any immediate m	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		
		Water mist, alcohol resistant foam, carbon dioxide, dry powder
	Unsuitable extinguishing	Water-jet, foam
	media	-
5.2	Special hazards arising from	
		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.
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Soction 6	Accidental release measure	
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		ive equipment and emergency procedures
6.1	Personal precautions, protect	
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Section 8	Exposure controls/persona	I 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 prop	
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 boiling range	105-290°C
	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
	Decomposition temperature	>200°C
	рН	6-7
	Kinematic viscosity	690 mPa × s (at 50 RPM, 20°C)
	Solubility	Suspendable in water
	Partition coefficient n- octanol/water	Not determined
	Vapour pressure	Not determined
	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 react	tions
		Not relevant
10.4	Conditions to avoid	
		Temperature >200°C (polymerization, decomposition)
10.5	Incompatible materials	
		Avoid contact with oxidizing agents
10.6	Hazardous decomposition pro	
		Acrolein (>280°C)



Toxicological information

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Section 11

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	11.1	Information on hazard classes	as defined in Regulation (EC) No 1272/2008
		Acute toxicity	Rat, oral, 5×10^9 granules /kg BW (AcNPV), no adverse effects
		Skin corrosion/irritation	Rabbit, contact, 0.5 mL/animal (2.2×10^{13} granula of CpGV/L) for 4 h, no adverse effect
		Serious eye	Rabbit, contact, 0.1 mL/eye (2.2×10^{13} granula of CpGV/L) for 24
		damage/irritation	h, non-irritating
		Respiratory or skin sensitization	Guinea pig, inhalation, 35 mg CpGV (7 \times 10 ⁸ granules) per m ³ for 15 min, 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
11.2		Information on other hazards	
			Not applicable
Section [•]	12	Ecological information	
	12.1	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	Lemna gibba, 7 day EC_{50} > 100 mg/L = 3.1 x 10 ⁹ CpGV/L
		Chronic (long-term) toxicity	
		Fish	Not determined
		Crustacea	Not determined
		Algae/aquatic plants	Not determined
		Other organisms	Not determined
	12.2	Persistence and degradability	Not determined
		Abiotic Degradation	рН
		Physical- and photo-	UV light
		chemical elimination	
		Biodegradation	Soil microflora
	12.3	Bioaccumulative potential	
		Octanol/water partition	Not determined
		coefficient (Kow) Bioconcentration factor	Not determined
		(BCF)	
	12.4	Mobility in soil	
		Known or predicted	Baculoviruses persist in the soil for a fairly long period in the
		distribution to environmental compartments	immobilised state and do not accumulate.
		Surface tension	Not determined
		Adsorption/Desorption	Not determined
	12.5	Results of PBT and vPvB asse	essment
			This mixture does not contain any PBT or vPvB substances
	12.6	Other adverse effects	
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		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	
14.2	UN proper shipping name	Not applicable
		No dangerous goods
14.3	Transport hazard class(es)	
		Not applicable
14.4	Packing group	Alexandra Paul I.
14.5	Environmental hazards	Not applicable
14.5		Not environmentally hazardous
14.6	Special precautions for user	
1 110		Not applicable
14.7	Maritime transport in bulk acc	••
		Not applicable
0	Descriptions information	
Section 15	Regulatory information	ntel regulations/legislation energific for the minture
15.1	Authorisations	ental regulations/legislation specific for the mixture
	Restrictions on use	Not relevant Not relevant
15.2	Chemical Safety Assessment	
10.2		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	A dense of the theorem lattice $(\mathbf{E}\mathbf{O})$ N = 0000/070
		Adapted to the regulation (EC) No. 2020/878
	Date of printing	09.01.2023
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