

## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Version 7.1	Revision Date: 23.07.2024	-	S Number: 12600-00011		sue: 20.03.2024 sue: 11.07.2022
Section 1	: Identification				
Prod	uct name	:	Abamectin / Leva Disodium EDTA		hloride / Oxfendazole / Cobalt ate Formulation
Othe	Other means of identification		Alliance (A010249) COOPERS TRIFECTA TRIPLE ACTIVE DRENCH FOR SHEEP AND CATTLE MINERALISED (67327)		
Man	ufacturer or supplier's d	letai	ls		
	pany	:	MSD		
Addr	ess	:	33 Whakatiki Str Upper Hutt - Nev		g 908
Tele	ohone	:	0800 800 543		
Eme	rgency telephone number	r :	0800 764 766 (0 CHEMCALL)	800 POISON)	0800 243 622 (0800
E-ma	ail address	:	EHSDATASTEW	/ARD@msd.cor	n
Reco	ommended use of the cl	nem	ical and restriction	ons on use	
	ommended use rictions on use	:	Veterinary produ Not applicable	ct	

### Section 2: Hazard identification

GHS Classification		
Acute toxicity (Oral)	:	Category 4
Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Testis, Respiratory Tract, Thyroid, Heart, Blood)



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	ecific target organ toxicity - eated exposure (Oral)	:	Category 2 (Bloc	od, Testis)
	zardous to the aquatic vironment - acute hazard	:	Category 1	
	zardous to the aquatic /ironment - chronic hazard	:	Category 1	
	S label elements zard pictograms	:		!
Sig	nal word	:	Danger	$\mathbf{v}$
Ha	zard statements	:	H334 May cause difficulties if inha H341 Suspected H351 Suspected H360FD May da H373 May cause Tract, Thyroid, H exposure. H373 May cause prolonged or rep	e an allergic skin reaction. e allergy or asthma symptoms or breathing
Pre	ecautionary statements	:	P260 Do not brea P264 Wash skin P270 Do not eat P272 Contamina the workplace. P273 Avoid relea P280 Wear protect P284 Wear respi <b>Response:</b> P301 + P312 + F CENTER/ doctor P302 + P352 IF	ratory protection. 2330 IF SWALLOWED: Call a POISON if you feel unwell. Rinse mouth. ON SKIN: Wash with plenty of water. INHALED: Remove person to fresh air and



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P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P391 Collect spillage.

#### Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards which do not result in classification

None known.

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
levamisole hydrochloride	16595-80-5	>= 2.5 -< 10
Cobalt disodium ethylenediaminetetraacetate	15137-09-4	>= 2.5 -< 10
oxfendazole	53716-50-0	>= 2.5 -< 10
Benzyl alcohol	100-51-6	>= 1 -< 10
Citric acid	77-92-9	>= 1 -< 10
Polyethylene glycol stearate	9004-99-3	>= 1 -< 10
Sodium selenate	13410-01-0	>= 0.1 -< 0.25
abamectin (combination of avermectin B1a and avermectin B1b) (ISO)	71751-41-2	>= 0.1 -< 0.25

#### Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention.



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				Wash clothing be Thoroughly clean	fore reuse. shoes before reuse.
I	In case	of eye contact	:	Flush eyes with w	ater as a precaution. tion if irritation develops and persists.
I	lf swallo	owed	:	If swallowed, DO	NOT induce vomiting.
				Get medical atten Rinse mouth thor	tion. oughly with water.
	Mootim	portant aumptama			ng by mouth to an unconscious person.
á	and effe	portant symptoms ects, both acute and	•	May cause an alle	ergic skin reaction.
(	delayed	1		May cause allergy ties if inhaled.	y or asthma symptoms or breathing difficul-
				Suspected of cau	sing genetic defects.
					lity. May damage the unborn child.
				May cause damage exposure.	ge to organs through prolonged or repeated
				Excessive exposu	ire may aggravate preexisting asthma and
					disorders (e.g. emphysema, bronchitis, reac- inction syndrome).
F	Protecti	ion of first-aiders	:		ers should pay attention to self-protection, nmended personal protective equipment
				when the potentia	I for exposure exists (see section 8).
۲ 	Notes to	o physician	:	Treat symptomati	cally and supportively.
Secti	ion 5: F	Fire-fighting measure	S		
S	Suitable	e extinguishing media	:	Water spray	fa
				Alcohol-resistant Carbon dioxide (C	
I	Unsuita	ble extinguishing		Dry chemical None known.	
r	media		•		
	Specific	hazards during fire-	:	Exposure to com	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Cobalt compound	۶
ſ	ucis			Nitrogen oxides (I	
				Metal oxides	
	Specific ods	extinguishing meth-	:		measures that are appropriate to local cir-
, c	003			Use water spray t	o cool unopened containers.
				Remove undama	ged containers from fire area if it is safe to do
	Onestel			Evacuate area.	
f	for firefi		:	Use personal prot	e, wear self-contained breathing apparatus. tective equipment.
ł	Hazche	m Code	:	3Z	



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#### Section 6: Accidental release measures

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### Section 7: Handling and storage

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Do not eat, drink or smoke when using this product.



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Hy	giene measures	<ul> <li>environment.</li> <li>If exposure to ch flushing systems place.</li> <li>When using do n Wash contamina The effective op engineering con appropriate degr</li> </ul>	event spills, waste and minimize release to the nemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the
Co	nditions for safe storage	use of administr	ative controls. A labelled containers.
Ma	terials to avoid		nce with the particular national regulations. n the following product types: agents

#### Section 8: Exposure controls/personal protection

# Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
levamisole hydrochloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal
	Further inform	ation: Skin	•	
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
oxfendazole	53716-50-0	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm <sup>2</sup>	Internal
Polyethylene glycol stearate	9004-99-3	WES-TWA	10 mg/m3	NZ OEL
		TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
Sodium selenate	13410-01-0	WES-TWA	0.02 mg/m3 (selenium)	NZ OEL
	Further inform	ation: Skin abso	rption	
		TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
		TWA	0.2 mg/m3 (selenium)	ACGIH
abamectin (combination of avermectin B1a and avermec-	71751-41-2	TWA	15 µg/m3 (OEB 3)	Internal



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tin B1	Ib) (ISO)	[		Wipe limit	 150 μg/100 cm²	Internal	
Engi	Engineering measures		Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.				
Perse	onal protective equipr	nent					
Fi	iratory protection Iter type   protection	:	<ul> <li>If adequate local exhaust ventilation is not available or exp sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.</li> <li>Combined particulates and organic vapour type</li> </ul>				
M	aterial	:	Chemical-resi	stant gloves			
	emarks protection	:	<ul> <li>Consider double gloving.</li> <li>Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>				
Skin	and body protection	:	Work uniform Additional boo task being per posable suits)	formed (e.g., slo to avoid expose te degowning te	bat. buld be used based u eevelets, apron, gaur ed skin surfaces. echniques to remove	ntlets, dis-	

#### **Section 9: Physical and chemical properties**

Appearance	: Aqueous solution, suspension	
Colour	: pink, to, purple	
Odour	: No data available	
Odour Threshold	: No data available	
рН	: 3.4 - 4.4 (20 °C)	



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	Melting p	point/freezing point	:	No data available	
	Initial boi range	iling point and boiling	:	No data available	
	Flash po	int	:	No data available	
	Evaporat	tion rate	:	No data available	
	Flammat	oility (solid, gas)	:	Not applicable	
	Flammat	oility (liquids)	:	No data available	
	Upper ex flammab	plosion limit / Upper ility limit	:	No data available	
	Lower ex flammab	plosion limit / Lower ility limit	:	No data available	
	Vapour p	oressure	:	No data available	
	Relative	vapour density	:	No data available	
	Relative	density	:	1.05 - 1.08	
	Density		:	No data available	
	Solubility Wate	r(ies) r solubility	:	No data available	
	Partition octanol/v	coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decomp	osition temperature	:	No data available	
	Viscosity Visco	, sity, kinematic	:	770 - 5000 mm2/	s ( 20 °C)
	Explosiv	e properties	:	Not explosive	
	Oxidizing	g properties	:	The substance or	mixture is not classified as oxidizing.
	Molecula	ar weight	:	No data available	
	Particle of Partic	characteristics size	:	Not applicable	



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#### Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Oxidizing agents

#### Section 11: Toxicological information

Exposure routes	:	Inhalation Skin contact Ingestion Eye contact
Acute toxicity		
Harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 980.32 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l
		Exposure time: 4 h Test atmosphere: dust/mist
		Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:		
levamisole hydrochloride:		
Acute oral toxicity	:	LD50 (Rat): 180 mg/kg
		LD50 (Mouse): 223 mg/kg
		LD50 (Rabbit): 458 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

#### Cobalt disodium ethylenediaminetetraacetate:



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Acute	e oral toxicity	:	LD50 (Rat): > 2, Remarks: Based	.000 mg/kg d on data from similar materials		
oxfei	ndazole:					
Acute	Acute oral toxicity		: LD50 (Rat): > 6,000 mg/kg			
			LD50 (Dog): 1,6	00 mg/kg		
			LD50 (sheep): 2	250 mg/kg		
Benz	yl alcohol:					
Acute	e oral toxicity	:	LD50 (Rat): 1,62	20 mg/kg		
Acute	e inhalation toxicity	:	LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403			
Acute	e dermal toxicity	:	<ul> <li>Acute toxicity estimate: 1,100 mg/kg</li> <li>Method: Expert judgement</li> <li>Remarks: Based on national or regional regulation.</li> </ul>			
Citric	c acid:					
Acute	e oral toxicity	:	LD50 (Mouse):	5,400 mg/kg		
Acute	e dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute derma toxicity			
Polye	ethylene glycol stear	rate:				
Acute	e oral toxicity	:	LD50 (Rat): > 5	000 mg/kg		
Sodi	um selenate:					
Acute	e oral toxicity	:	LD50 (Rat): > 5 Remarks: Based	- 50 mg/kg d on data from similar materials		
Acute	e inhalation toxicity	:	LC50 (Rat): > 0.052 - 0.51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403			
abam	nectin (combination	of ave	rmectin B1a and	l avermectin B1b) (ISO):		
Acute	e oral toxicity	:	LD50 (Rat): 24 i	mg/kg		



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		LD50 (Mc	buse): 10 mg/kg
			onkey): 24 mg/kg is: Dilatation of the pupil
Acute	e inhalation toxicity	Exposure	at): 0.023 mg/l e time: 4 h osphere: dust/mist
Acute	e dermal toxicity	: LD50 (Ra	at): 330 mg/kg
		LD50 (Ra	abbit): 2,000 mg/kg
	corrosion/irritation	ailable information	n.
<u>Com</u>	ponents:		
levan	nisole hydrochloride	:	
Rema	arks	: No data a	available
Coba	alt disodium ethylene	diaminetetraac	etate:
Speci	ies	: Rabbit	
Metho			est Guideline 404
Resu		: No skin ir	
Rema	arks	: Based on	data from similar materials
oxfer	ndazole:		
Speci		D - 1 1 1	
		: Rabbit	
Resu		: Rabbit : No skin ir	ritation
Resu Benz	lt yl alcohol:		ritation
Resu Benz Speci	lt : <b>yl alcohol:</b> ies	: No skin ir : Rabbit	
Resu Benz Speci Metho	lt <b>:yl alcohol:</b> ies od	: No skin ir : Rabbit : OECD Te	est Guideline 404
Resu Benz Speci	lt <b>:yl alcohol:</b> ies od	: No skin ir : Rabbit	est Guideline 404
Resu Benz Speci Metho Resu Citric	It <b>cyl alcohol:</b> ies od It <b>c acid:</b>	: No skin ir : Rabbit : OECD Te : No skin ir	est Guideline 404
Resu Benz Speci Metho Resu Citric Speci	It <b>cyl alcohol:</b> ies od It <b>c acid:</b> ies	<ul> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> <li>Rabbit</li> </ul>	est Guideline 404 ritation
Resu Benz Speci Metho Resu Citric	It <b>cyl alcohol:</b> ies od It <b>c acid:</b> ies od	<ul> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> <li>Rabbit</li> </ul>	est Guideline 404 ritation est Guideline 404
Resu Benz Speci Metho Resu <b>Citric</b> Speci Metho Resu	It ies od It <b>c acid:</b> ies od It	<ul> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> </ul>	est Guideline 404 ritation est Guideline 404
Resu Benz Speci Metho Resu Citric Speci Metho Resu Polye	It <b>cyl alcohol:</b> ies od It <b>c acid:</b> ies od It <b>ethylene glycol stea</b> r	<ul> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>OECD Te</li> <li>No skin ir</li> </ul>	est Guideline 404 ritation est Guideline 404
Resu Benz Speci Metho Resu <b>Citric</b> Speci Metho Resu	It <b>cyl alcohol:</b> ies od It <b>c acid:</b> ies od It <b>ethylene glycol stear</b> ies	<ul> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> <li>Rabbit</li> <li>OECD Te</li> <li>No skin ir</li> </ul>	est Guideline 404 ritation est Guideline 404 ritation



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So	dium selenate:		
	ecies thod	: reconstructed h : OECD Test Gu	uman epidermis (RhE) ideline 431
	ecies thod	: reconstructed h : OECD Test Gu	uman epidermis (RhE) ideline 439
Re	sult	: Skin irritation	
	•		d avermectin B1b) (ISO):
	ecies sult	: Rabbit : No skin irritatior	ı
Sei	rious eye damage/eye	irritation	
-	t classified based on ava mponents:	ailable information.	
	a <b>misole hydrochloride</b> marks	: No data availab	
Re	IIIdIKS	. INO Gala availab	
Co	balt disodium ethylene	ediaminetetraacetate:	
	ecies	: Rabbit	
	sult marks	: No eye irritation	n from similar materials
IXE:	marks	. Dased on data	nom similar materials
oxf	fendazole:		
	ecies	: Rabbit	
Re	sult	: No eye irritatior	1
Be	nzyl alcohol:		
Spe	ecies	: Rabbit	
Re	sult		s, reversing within 21 days
Me	thod	: OECD Test Gu	ideline 405
Cit	ric acid:		
	ecies	: Rabbit	
	sult		s, reversing within 21 days
Me	thod	: OECD Test Gu	ideline 405
Po	lyethylene glycol stear	ate:	
	ecies	: Rabbit	
Re	sult	: No eye irritation	1



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N	/lethod	l	:	Draize Test					
		n selenate:							
	Species		÷	<ul> <li>Bovine cornea</li> <li>OECD Test Guideline 437</li> </ul>					
IV	Method			OECD Test Guide					
F	Result		:	No eye irritation					
		•	ave	rmectin B1a and a	avermectin B1b) (ISO):				
	Species	6	:	Rabbit					
k	Result		:	Mild eye irritation					
R	Respira	atory or skin sensitis	atic	n					
S	Skin se	ensitisation							
Ν	Лау са	use an allergic skin rea	actio	on.					
	-	atory sensitisation use allergy or asthma	sym	ptoms or breathing	g difficulties if inhaled.				
<u>c</u>	Compo	onents:							
le	evami	sole hydrochloride:							
	Remarl	-	:	No data available					
c	Cobalt	disodium ethylenedi	ami	netetraacetate:					
E	Exposu	re routes	:	inhalation (dust/m	nist/fume)				
	Species	6	:	Humans					
	Result Remarl	(S	÷	positive Based on data fro	om similar materials				
Δ	lssess	ment	:		dence of low to moderate respiratory sensiti-				
P	Renzvl	alcohol:							
	Assess		:	Probability or evid	dence of skin sensitisation in humans				
	Remark		:		I or regional regulation.				
P	Polyetl	nylene glycol stearate	e:						
	est Ty		:	Open epicutaneo	us test				
		re routes	:	Skin contact					
	Species Result	5	÷	Guinea pig negative					
			-	- 3					



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	•			d avermectin B1b) (ISO):
Test <sup>-</sup>	l ype sure routes		laximisation Te	est
Resu		-	lot a skin sens	itizer.
Chro	nic toxicity			
	<b>cell mutagenicity</b> ected of causing gene	etic defec	ts.	
Com	ponents:			
levan	nisole hydrochloride	):		
Geno	toxicity in vitro		est Type: Bact esult: negative	terial reverse mutation assay (AMES) e
			est Type: Chro esult: negative	omosome aberration test in vitro e
Coba	It disodium ethylene	ediamine	tetraacetate:	
Geno	toxicity in vitro	N		terial reverse mutation assay (AMES) Test Guideline 471
				d on data from similar materials
		N	lethod: OECD	tro mammalian cell gene mutation test Test Guideline 476
			esult: positive emarks: Base	d on data from similar materials
		N	lethod: OECD	omosome aberration test in vitro Test Guideline 473
			esult: positive emarks: Base	d on data from similar materials
Geno	toxicity in vivo		est Type: Micr	
		A		ite: Intraperitoneal injection
			esult: positive emarks: Base	d on data from similar materials
		C		agenicity (in vivo mammalian bone-marro t, chromosomal analysis) e
		A	pplication Rou	ite: Ingestion
			esult: positive	d on data from similar materials



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		Species: Mouse Application Rout Result: positive	ent dominant lethal test (germ cell) (in vivo) e: Ingestion I on data from similar materials					
	rm cell mutagenicity - sessment	genicity tests.	Positive result(s) from in vivo mammalian somatic cell muta- genicity tests. Remarks: Based on data from similar materials					
ox	fendazole:							
-	notoxicity in vitro	: Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)					
Ge	notoxicity in vivo	cytogenetic test, Species: Mouse	Application Route: Oral					
Ве	nzyl alcohol:							
Ge	notoxicity in vitro	: Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)					
Ge	notoxicity in vivo	malian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection						
Cit	ric acid:							
	notoxicity in vitro	: Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)					
		Test Type: in vitr Result: positive	o micronucleus test					
		Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)					
Ge	notoxicity in vivo		genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion					

Polyethylene glycol stearate:



rsion	Revision Date: 23.07.2024	SDS Number:Date of last issue: 20.03.202410812600-00011Date of first issue: 11.07.2022
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Sodiu	um selenate:	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
		Remarks: Based on data from similar materials
abam	ectin (combination	of avermectin B1a and avermectin B1b) (ISO):
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative
		Test Type: Alkaline elution assay Result: negative
Geno	toxicity in vivo	<ul> <li>Test Type: Mutagenicity (in vivo mammalian bone-mar cytogenetic test, chromosomal analysis)</li> <li>Species: Mouse</li> <li>Application Route: Intraperitoneal injection</li> <li>Result: negative</li> </ul>
	nogenicity ected of causing canc	er.
<u>Comp</u>	ponents:	
levam	nisole hydrochloride	:
Speci Applic	es cation Route	: Mouse : Oral
Expos	sure time	: 2 Years
NOAE Rema		<ul> <li>80 mg/kg body weight</li> <li>No significant adverse effects were reported</li> </ul>
Speci		: Rat
	cation Route sure time	: Oral : 2 Years
NÓAE Rema	EL	<ul><li> 40 mg/kg body weight</li><li> No significant adverse effects were reported</li></ul>
Coba	It disodium ethylene	ediaminetetraacetate:
	es	



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Expo Resu Rem Spec Appli Expo Resu Rem	arks ies cation Route sure time ilt		Mouse inhalation (dust/n 105 weeks positive Based on data fro	om similar materials nist/fume) om similar materials
ment	•	•		of carcinogenicity in animal studies on data from similar materials
Spec Appli Expo Symp Targo Spec Appli Expo Symp	cation Route sure time otoms et Organs		Rat Oral 1 Years No adverse effect Liver Rat Oral 2 Years No adverse effect Liver	
Spec Appli Expo Meth Resu	cation Route isure time od It	:	Mouse Ingestion 103 weeks OECD Test Guid negative	
Spec Appli	ies cation Route sure time	f ave : : :	rmectin B1a and Rat Oral 105 weeks negative	avermectin B1b) (ISO):
	cation Route sure time	:	Mouse Oral 93 weeks negative	



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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#### **Reproductive toxicity**

May damage fertility. May damage the unborn child.

#### **Components:**

#### levamisole hydrochloride:

Effects on fertility	Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Result: No significant adverse effects were reported	
Effects on foetal develop- ment	Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 20 mg/kg body weight Result: Fetotoxicity	
	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity	
Reproductive toxicity - As- sessment	Some evidence of adverse effects on development, bas animal experiments.	ed on

#### Cobalt disodium ethylenediaminetetraacetate:

Effects on fertility :	Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
	Test Type: Fertility/early embryonic development Species: Mouse Application Route: Ingestion Result: positive Remarks: Based on data from similar materials
	Test Type: Fertility/early embryonic development Species: Mouse Application Route: inhalation (dust/mist/fume) Result: positive Remarks: Based on data from similar materials
	Test Type: Fertility/early embryonic development Species: Rat Application Route: inhalation (dust/mist/fume) Result: positive



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		Remarks: Based	d on data from similar materials
Effec men	cts on foetal develop- t	Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 414
•	roductive toxicity - As- ment	fertility, based or	of adverse effects on sexual function and n animal experiments. d on data from similar materials
oxfe	ndazole:		
	cts on fertility	Species: Rat, m Application Rout	te: Oral : 17 mg/kg body weight Testes
		Species: Rat Application Rout	: 0.9 mg/kg body weight Liver
		Test Type: Fertil Species: Mouse Application Rout Duration of Sing Fertility: NOAEL Target Organs: Result: Effects o	te: Oral le Treatment: 1 Months : 750 mg/kg body weight Testes
Effeo men	cts on foetal develop- t	Species: Rat Application Rout	Toxicity: NOAEL: 10 mg/kg body weight
		Species: Rat Developmental	ryo-foetal development Toxicity: NOAEL: 10 mg/kg body weight Embryo-foetal toxicity
		Test Type: Emb Species: Mouse	ryo-foetal development



ersion I	Revision Date: 23.07.2024	SDS Number: 10812600-0001	Date of last issue: 20.03.2024 Date of first issue: 11.07.2022
			Route: Oral tal Toxicity: NOAEL: 108 mg/kg body weight ive, Embryo-foetal toxicity, foetal abnormalities
		Species: Rat Application F	
Repro sessn	oductive toxicity - As- nent	ity, based on	ce of adverse effects on sexual function and fe animal experiments., Clear evidence of adverse evelopment, based on animal experiments.
Benzy	yl alcohol:		
Effect	s on fertility	Species: Rat Application F Result: nega	Route: Ingestion
Effect ment	s on foetal develop-	Species: Mo	Route: Ingestion
Citric	acid:		
Effect ment	s on foetal develop-	Species: Rat	Route: Ingestion
Sodiu	ım selenate:		
Effect	s on fertility	Species: Rat Application F Result: nega	Route: Ingestion
Effect ment	s on foetal develop-	Species: Mo Application F Result: nega	Route: Ingestion
abam	ectin (combination of	avermectin B1a a	and avermectin B1b) (ISO):
Effect	s on fertility	: Test Type: F	ertility



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Species: Rat, male Application Route: Oral Result: Effects on fertility Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: NOAEL: 0.12 mg/kg bod weight Result: Fetotoxicity Test Type: Embryo-foetal development Species: Mouse Application Route: Oral General Toxicity Maternal: NOAEL: 0.05 mg/kg body we Developmental Toxicity: NOAEL: 0.2 mg/kg body weight Result: Cleft palate Remarks: Adverse development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced embr survival Remarks: Adverse developmental effects were observe Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced embr survival Remarks: Adverse developmental effects were observe Test Type: Development Species: Rabit Application Route: Oral Developmental Toxicity: LOAEL: 1.6 mg/kg body weight Result: Teratogenic effects Some evidence of adverse effects on sexual function are fertility, based on animal experiments., Some evidence adverse effects on development, based on animal experiments. STOT - single exposure Not classified based on available information. Components: Citric acid:	ersion 1	Revision Date: 23.07.2024	SDS Number: 10812600-0001	Date of last issue: 20.03.2024 1 Date of first issue: 11.07.2022
mentSpecies: Mouse Application Route: Oral General Toxicity Maternal: NOAEL: 0.05 mg/kg body we Developmental Toxicity: NOAEL: 0.2 mg/kg body weigh Result: Cleft palate Remarks: Adverse developmental effects were observeTest Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced embr survival Remarks: Adverse developmental effects were observeTest Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced embr survival Remarks: Adverse developmental effects were observeTest Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 1.6 mg/kg body weight Result: Teratogenic effectsReproductive toxicity - As- sessment:Some evidence of adverse effects on sexual function ar fertility, based on animal experiments., Some evidence adverse effects on development, based on animal expe ments.STOT - single exposure Not classified based on available information.Components:			Application F Result: Effect Test Type: T Species: Ra Application F Early Embry weight	Route: Oral cts on fertility wo-generation reproduction toxicity study t Route: Oral onic Development: NOAEL: 0.12 mg/kg body
Developmental Toxicity: LOAEL: 2 mg/kg body weight Result: Cleft palate, Teratogenic effects, Reduced embr survival Remarks: Adverse developmental effects were observe         Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 1.6 mg/kg body weight Result: Teratogenic effects         Reproductive toxicity - As- sessment       :         Some evidence of adverse effects on sexual function ar fertility, based on animal experiments., Some evidence adverse effects on development, based on animal exper ments.         STOT - single exposure Not classified based on available information.         Components:		ts on foetal develop-	Species: Mo Application F General Tox Developmen Result: Cleft Remarks: Ac Test Type: E Species: Ra	Route: Oral icity Maternal: NOAEL: 0.05 mg/kg body weight ital Toxicity: NOAEL: 0.2 mg/kg body weight palate dverse developmental effects were observed mbryo-foetal development bbit
Species: Rat         Application Route: Oral         Developmental Toxicity: LOAEL: 1.6 mg/kg body weight         Reproductive toxicity - Assessment         Some evidence of adverse effects on sexual function ar         fertility, based on animal experiments., Some evidence         adverse effects on development, based on animal experiments.         STOT - single exposure         Not classified based on available information.         Components:			Developmen Result: Cleft survival	ntal Toxicity: LOAEL: 2 mg/kg body weight palate, Teratogenic effects, Reduced embryonic
sessment       fertility, based on animal experiments., Some evidence adverse effects on development, based on animal experiments.         STOT - single exposure       Not classified based on available information.         Components:       Components:			Species: Ra Application F Developmen	t Route: Oral htal Toxicity: LOAEL: 1.6 mg/kg body weight
Not classified based on available information.	•	-	fertility, base adverse effe	ed on animal experiments., Some evidence of
		• •	able information.	
Citric acid:	<u>Com</u>	ponents:		
	Citric	acid:		

Assessment

: May cause respiratory irritation.



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium **Selenate Formulation**

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#### **STOT - repeated exposure**

May cause damage to organs (Liver, Testis, Respiratory Tract, Thyroid, Heart, Blood) through prolonged or repeated exposure.

May cause damage to organs (Blood, Testis) through prolonged or repeated exposure if swallowed.

#### **Components:**

<b>levamisole hydrochloride:</b> Target Organs Assessment	:	Blood, Testis		
Assessment	:	May cause damage to organs through prolonged or repeated exposure.		
Cobalt disodium ethylenedia	mi	inetetraacetate:		
Exposure routes	:	inhalation (dust/mist/fume)		
Target Organs	:	Respiratory Tract		
Assessment	:	Shown to produce significant health effects in animals at con- centrations of 0.02 mg/l/6h/d or less.		
Remarks	:	Based on data from similar materials		
Exposure routes	:	Ingestion		
Target Organs	:	Thyroid, Heart, Blood		
Assessment	:	Shown to produce significant health effects in animals at con- centrations of >10 to 100 mg/kg bw.		
Remarks	:	Based on data from similar materials		
oxfendazole:				
Exposure routes	:	Oral		
	:	Liver, Testis		
Assessment	:	May cause damage to organs through prolonged or repeated exposure.		
Sodium selenate:				
Exposure routes	:	Ingestion		
Assessment	:	Shown to produce significant health effects in animals at con- centrations of 10 mg/kg bw or less.		
abamectin (combination of avermectin B1a and avermectin B1b) (ISO):				
Exposure routes	:	Ingestion		
Target Organs	:	Central nervous system		
Assessment	:	Causes damage to organs through prolonged or repeated exposure.		



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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#### Repeated dose toxicity

#### Components:

Exposure time

#### levamisole hydrochloride:

Species NOAEL Application Route Exposure time Target Organs	:	Rat 2.5 mg/kg Oral 18 Months Testis
Species LOAEL Application Route Exposure time Target Organs	:	Dog 20 mg/kg Oral 18 Months Blood
Species LOAEL Application Route Exposure time	:	Dog 40 mg/kg Oral 3 Months
Cobalt disodium ethylenedia	mi	netetraacetate:
Species LOAEL Application Route Exposure time Remarks	: : : : : : : : : : : : : : : : : : : :	Rat > 10 mg/kg Ingestion 90 Days Based on data from similar materials
Species LOAEL Application Route Exposure time Method Remarks		Rat < 0.01 mg/l inhalation (dust/mist/fume) 13 Weeks OECD Test Guideline 413 Based on data from similar materials
Species LOAEL Application Route Exposure time Method Remarks		Mouse < 0.01 mg/l inhalation (dust/mist/fume) 13 Weeks OECD Test Guideline 413 Based on data from similar materials
oxfendazole:		
Species NOAEL Application Route	: : :	Rat 11 mg/kg Oral



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Targe	t Organs	: Blood, Liver, 7	Festis
Expos		: Rat : 3.8 mg/kg : Oral : 3 Months : Liver, Testis	
Expos		: Mouse : 750 mg/kg : Oral : 1 Months : Liver	
Expos		: Mouse : 37.5 mg/kg : Oral : 3 Months : Liver	
	EL cation Route sure time	: Dog : 6 mg/kg : Oral : 1 Months : No significant	adverse effects were reported
Expos		: Dog : 11 mg/kg : Oral : 2 Weeks : Lymph nodes,	, thymus gland
Expos		: Dog : 13.5 mg/kg : Oral : 12 Months : Liver	
Specie NOAE Applic	EL cation Route sure time	: Rat : 1.072 mg/l : inhalation (dus : 28 Days : OECD Test G	
<b>Citric</b> Specie NOAE	es	: Rat : 4,000 mg/kg	



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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	EL cation Route sure time	: 8,000 mg/kg : Ingestion : 10 Days	
Spec NOA Appli		: Rat : 0.4 mg/kg : Ingestion : 13 Weeks	
Spec NOA Appli Expo Targe	ies	avermectin B1a and         :       Rat         :       1.5 mg/kg         :       Oral         :       24 Months         :       Central nervous         :       Tremors, ataxia	l <b>avermectin B1b) (ISO)</b> : system
Expo Targe		<ul> <li>Mouse</li> <li>4.0 mg/kg</li> <li>Oral</li> <li>24 Months</li> <li>Central nervous</li> <li>Tremors, ataxia</li> </ul>	system
Expo Targe	EL EL cation Route sure time et Organs otoms	<ul> <li>Dog</li> <li>0.25 mg/kg</li> <li>0.5 mg/kg</li> <li>Oral</li> <li>53 Weeks</li> <li>Central nervous</li> <li>Tremors, weight</li> <li>mortality observ</li> </ul>	loss
Expo		: Monkey : 1.0 mg/kg : Oral : 14 Weeks : Central nervous	system
-	ration toxicity lassified based on avail	able information.	

#### Experience with human exposure

#### Components:

levamisole hydrochloride:



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In	ngestio	on	:	Symptoms: Naus tension	ea, Vomiting, Headache, Dizziness, hypo-			
С	obalt	disodium ethylenedi	ami	netetraacetate:				
In	nhalati	on	:		espiratory system			
In	ngestio	on	:	Remarks: Based on data from similar materials Target Organs: Blood Remarks: Based on data from similar materials Target Organs: Heart Target Organs: Thyroid				
al	bame	ctin (combination of a	ave	rmectin B1a and	avermectin B1b) (ISO):			
In	ngestio	n	:	Symptoms: May of system effects, S	cause, Tremors, Diarrhoea, central nervous alivation, tearing			
Sectio	on 12:	Ecological information	on					
E	cotox	icity						
<u>C</u>	ompo	onents:						
le	evami	sole hydrochloride:						
Τ	oxicity	v to fish	:	Exposure time: 9	ipes (Japanese medaka)): 37.3 mg/l 6 h est Guideline 203			
		v to daphnia and other invertebrates	:	Exposure time: 4	nagna (Water flea)): 64 mg/l 3 h est Guideline 202			
C	ohalt	disodium ethylenedi	ami	nototraacotato				
		to daphnia and other			nagna (Water flea)): > 100 mg/l			
		invertebrates		Exposure time: 4 Method: OECD T				
	oxicity lants	v to algae/aquatic	:	100 mg/l Exposure time: 7 Method: OECD T	elis subcapitata (freshwater green alga)): > 2 h est Guideline 201 on data from similar materials			
	oxicity city)	v to fish (Chronic tox-	:	Exposure time: 3	o (zebra fish)): > 1 mg/l 4 d on data from similar materials			
a		v to daphnia and other invertebrates (Chron- ity)	:	Exposure time: 2	zteca (Amphipod)): > 0.01 - 0.1 mg/l 3 d est Guideline 211			



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				Remarks: Based	on data from similar materials
	M-Factor toxicity)	or (Chronic aquatic	:	1	
	oxfend	azole:			
	Toxicity	r to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 2.7 mg/l እ h
				LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 2.5 mg/l S h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 27 Method: OECD T	
	M-Factor toxicity)	or (Chronic aquatic	:	1	
	Benzyl	alcohol:			
	Toxicity	to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
				NOEC (Pseudoki mg/l	chneriella subcapitata (green algae)): 310



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				Exposure time: 72 Method: OECD Te	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Citric a	cid:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l s h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l ⊧h
	Polveth	nylene glycol stearate	):		
	Toxicity		:	LC50 (Leuciscus i Exposure time: 96 Method: DIN 3841	
	Toxicity	to microorganisms	:	EC10 (Bacteria): > Exposure time: 16	
	Sodiun	n selenate:			
	Toxicity		:	Exposure time: 96	s promelas (fathead minnow)): > 1 - 10 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 1 - 10 mg/l s h on data from similar materials
	Toxicity plants	r to algae/aquatic	:	ErC50 (Chlamydo Exposure time: 96	monas reinhardtii (green algae)): 245 µg/l sh
				NOEC (Chlamydo Exposure time: 96	monas reinhardtii (green algae)): 197 µg/l sh
		or (Acute aquatic tox-	:	1	
	icity) Toxicity icity)	r to fish (Chronic tox-	:	mg/l Exposure time: 25	nacrochirus (Bluegill sunfish)): > 0.01 - 0.1 i8 d on data from similar materials
		r to daphnia and other invertebrates (Chron- ty)	:	Exposure time: 28	



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toxi	actor (Chronic aquatic city) icity to microorganisms	:	1 EC10 (activated s Exposure time: 3 Method: OECD Te	h
	mectin (combination of a icity to fish	ave :	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 3.2 μg/l 5 h acrochirus (Bluegill sunfish)): 9.6 μg/l
			Exposure time: 96 LC50 (Cyprinus c	arpio (Carp)): 42 μg/l
			Exposure time: 96 LC50 (Cyprinodor Exposure time: 96	n variegatus (sheepshead minnow)): 15 µg/l
	icity to daphnia and other atic invertebrates	:	Exposure time: 96	δ h hagna (Water flea)): 0.34 μg/l
Tox plar	icity to algae/aquatic hts	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 100 2 h
icity	icity to fish (Chronic tox-	:	10,000 NOEC (Pimephale Exposure time: 32	es promelas (fathead minnow)): 0.52 µg/l 2 d
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)	:	Exposure time: 2'	is bahia (opossum shrimp)): 0.0035 μg/l
toxi	actor (Chronic aquatic city) icity to microorganisms	:	10,000 EC50: > 1,000 mg Exposure time: 3 Test Type: Respir	h



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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Persistence and degradability

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r crosscence and degradability	
Components:	
oxfendazole:	
Stability in water :	Hydrolysis: < 5 %(4 d)
Benzyl alcohol:	
Biodegradability :	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d
Citric acid:	
Biodegradability :	Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B
Polyethylene glycol stearate:	
Biodegradability :	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: &gt; 70 %</li> <li>Exposure time: 10 d</li> <li>Method: OECD Test Guideline 302B</li> </ul>
abamectin (combination of av	vermectin B1a and avermectin B1b) (ISO):
•	Hydrolysis: 50 %(< 12 h)
Bioaccumulative potential	
Components:	
Cobalt disodium ethylenedian	ninetetraacetate:
	log Pow: -3.86 Remarks: Calculation
oxfendazole:	
Partition coefficient: n- : octanol/water	: log Pow: 1.95
Benzyl alcohol:	
Partition coefficient: n- : octanol/water	log Pow: 1.05
Citric acid:	



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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	Partitio octanol	n coefficient: n- /water	:	log Pow: -1.72	
	abame	ctin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
	Bioaccu	umulation	:	Bioconcentration	factor (BCF): 52
	Partitio octanol	n coefficient: n- /water	:	log Pow: 4	
	Mobilit	y in soil			
	Compo	onents:			
	oxfend	azole:			
		ition among environ- compartments	:	log Koc: 3.2	
	abame	ctin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
		ition among environ- compartments	:	log Koc: > 3.6	
	Other a	adverse effects			
	No data	a available			
Sec	tion 13:	Disposal considerat	ion	S	
	Dispos	al methods			

Disposar methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.

#### Section 14: Transport information

#### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin
		B1b) (ISO), oxfendazole)
Class	:	9
Packing group	:	11
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.		UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
i iopoi ompping numo	•	



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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Labels Packin aircraft	g instruction (cargo t) g instruction (passen-		(abamectin (com B1b) (ISO), oxfen 9 III Miscellaneous 964 964	bination of avermectin B1a and avermectin dazole)
Ĕnviro	nmentally hazardous	:	yes	
<b>IMDG-</b> UN nu Proper		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, bination of avermectin B1a and avermectin
Labels EmS C		: : : : : : : : : : : : : : : : : : : :	9 III 9 F-A, S-F yes	

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

:	UN 3082
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(abamectin (combination of avermectin B1a and avermectin B1b) (ISO), oxfendazole)
:	9
:	III
:	9
:	3Z
:	no

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Version	Revision Date:
7.1	23.07.2024

SDS Number: 10812600-00011

Date of last issue: 20.03.2024 Date of first issue: 11.07.2022

#### **HSNO Approval Number**

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

#### HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

#### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

#### Section 16: Other information

Revision Date	:	23.07.2024			
Further information					
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH NZ OEL	:	USA. ACGIH Threshold Limit Values (TLV) New Zealand. Workplace Exposure Standards for Atmospher- ic Contaminants			
ACGIH / TWA NZ OEL / WES-TWA	:	8-hour, time-weighted average Workplace Exposure Standard - Time Weighted average			

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and



## Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

NZ / EN