

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

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
1.3	04.12.2023	10813892-00004	Date of first issue: 12.07.2022

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Other means of identification		Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodi- um Selenate Formulation Converge (A010119)
Manufacturer or supplier's o	deta	ails
Company name of supplier	:	MSD
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the c	her	nical and restrictions on use
Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 5
Respiratory sensitization	:	Category 1
Germ cell mutagenicity	:	Category 2
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 1 (Respiratory Tract, Thyroid, Heart, Blood)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Testis)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H302 Harmful if swallowed. H333 May be harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing diffi-



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		H351 Suspected H361fd Suspect the unborn child H372 Causes da Heart, Blood) th H373 May cause	d of causing genetic defects. d of causing cancer. ed of damaging fertility. Suspected of damaging
Preca	autionary Statements	P202 Do not had and understood P260 Do not bre P264 Wash skin P270 Do not eat P280 Wear prot face protection.	ecial instructions before use. ndle until all safety precautions have been read eathe mist or vapors. In thoroughly after handling. t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protection/
		CENTER or doc P304 + P340 IF keep comfortabl P308 + P313 IF attention. P342 + P311 If d	P330 IF SWALLOWED: Call a POISON etor/ physician if you feel unwell. Rinse mouth. INHALED: Remove person to fresh air and e for breathing. exposed or concerned: Get medical advice/ experiencing respiratory symptoms: Call a ER or doctor/ physician.
		<b>Storage:</b> P405 Store lock	ed up.
		<b>Disposal:</b> P501 Dispose o posal plant.	f contents/ container to an approved waste dis-
	r <b>hazards</b> known.		

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Levamisole hydrochloride	16595-80-5	>= 5 -< 10
Cobalt disodium ethylenediaminetetraacetate	15137-09-4	>= 1 -< 5
Benzyl alcohol	100-51-6	>= 1 -< 5
Citric acid	77-92-9	>= 1 -< 5
Sodium selenate	13410-01-0	>= 0.1 -< 1



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	ectin (combination of nectin B1b) (ISO)	avermectin B1a and	71751-41-2	>= 0.1 -< 0.5

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	In the case of accident or if you feel unwell, seek medical advice 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. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	• •
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May be harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome).
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

#### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire	:	Exposure to combustion products may be a hazard to health.



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Ha	fighting Hazardous combustion prod- ucts		Carbon oxides Oxides of phosphorus Cobalt compounds Nitrogen oxides (NOx) Metal oxides		
ods	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.		
	ecial protective equipment fire-fighters	:	Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SECTIC	N 6. ACCIDENTAL RELE	AS	E MEASURES		
tive	Personal precautions, protec- tive equipment and emer- gency procedures		Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
Env	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 containmen oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillage cannot be contained.		
	Methods and materials for : containment and cleaning up		Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked m can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information rega certain local or national requirements.		

#### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe mist or vapors.
-	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.



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Hy	giene measures	<ul> <li>Handle in accorpractice, based assessment</li> <li>Keep container</li> <li>Already sensitizt to asthma, aller should consult for respiratory irritate</li> <li>Do not eat, drin Take care to prenvironment.</li> <li>If exposure to conflushing system place.</li> <li>When using do Wash contamin The effective opengineering corport</li> </ul>	bughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure tightly closed. red individuals, and those susceptible gies, chronic or recurrent respiratory disease, their physician regarding working with ints or sensitizers. k or smoke when using this product. event spills, waste and minimize release to the hemical 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. beration of a facility should include review of htrols, proper personal protective equipment, gowning and decontamination procedures,
Co	nditions for safe storage	use of administ	y labeled containers.
Ma	aterials to avoid	Keep tightly co Store in accord Do not store with Strong oxidizing	sed. ance with the particular national regulations. th the following product types: g agents bstances and mixtures

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
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
Sodium selenate	13410-01-0	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
		VLE-PPT	0.2 mg/m <sup>3</sup> (selenium)	NOM-010- STPS-2014
		TWA	0.2 mg/m <sup>3</sup> (selenium)	ACGIH
abamectin (combination of avermectin B1a and avermec- tin B1b) (ISO)	71751-41-2	TWA	15 μg/m3 (OEB 3)	Internal



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		Wipe limit 150 µg/100 cm <sup>2</sup> Internal
Engi	ineering measures	<ul> <li>Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).</li> <li>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 containment devices). Minimize open handling.</li> </ul>
Pers	onal protective equip	ment
Fi	biratory protection ilter type d protection	<ul> <li>If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.</li> <li>Combined particulates and organic vapor type</li> </ul>
Μ	laterial	: Chemical-resistant 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	<ul> <li>Work uniform or laboratory coat.</li> <li>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.</li> <li>Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul>

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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F	-lash p	oint		No data available	
			•		
E	=vapora	ation rate	:	No data available	
F	-lamma	ability (solid, gas)	:	Not applicable	
F	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
١	√apor p	ressure	:	No data available	)
F	Relative	e vapor density	:	No data available	)
F	Relative	e density	:	No data available	)
Γ	Density		:	No data available	)
ç	Solubilit Wate	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol/ Autoign	ition temperature	:	No data available	)
Γ	Decomp	position temperature	:	No data available	)
١	Viscosit Visc∉	y osity, kinematic	:	No data available	)
E	Explosiv	ve properties	:	Not explosive	
(	Oxidizin	ng properties	:	The substance or	mixture is not classified as oxidizing.
N	Molecul	ar weight	:	No data available	
	Particle	-	:	Not applicable	

#### SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Can react with strong oxidizing agents.
:	None known.
:	Oxidizing agents
	:



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Haza produ	rdous decomposition	:	No hazardous o	decomposition products are known.						
SECTION	ECTION 11. TOXICOLOGICAL INFORMATION									
Inhala Skin ( Inges	contact	s of	exposure							
Harm	<b>e toxicity</b> Iful if swallowed. be harmful if inhaled.									
Prod	<u>uct:</u>									
Acute	e oral toxicity	:	Acute toxicity es Method: Calcula	stimate: 939.39 mg/kg ation method						
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmospher Method: Calcula	e: dust/mist						
Acute	e dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5,000 mg/kg ation method						
Com	ponents:									
Leva	misole hydrochloride:									
Acute	e oral toxicity	:	LD50 (Rat): 180	mg/kg						
			LD50 (Mouse): 2	223 mg/kg						
			LD50 (Rabbit): 4	158 mg/kg						
Acute	e inhalation toxicity	:	Remarks: No da	ta available						
Acute	e dermal toxicity	:	Remarks: No da	ata available						
Coba	It disodium ethylened	iami	netetraacetate:							
Acute	e oral toxicity	:		000 mg/kg d on data from similar materials						
Benz	yl alcohol:									
	e oral toxicity	:	LD50 (Rat): 1,62	20 mg/kg						
Acute	e inhalation toxicity	:	LC50 (Rat): > 4. Exposure time: Test atmospher Method: OECD	4 h						



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Citric	acid:		
Acute	oral toxicity	: LD50 (Mouse): 5,400 mg/kg	
Acute	dermal toxicity	<ul> <li>LD50 (Rat): &gt; 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute toxicity</li> </ul>	derm
Sodiu	m selenate:		
Acute	oral toxicity	: LD50 (Rat): > 5 - 50 mg/kg Remarks: Based on data from similar materials	
Acute	inhalation toxicity	: LC50 (Rat): > 0.052 - 0.51 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403	
abam	ectin (combination o	avermectin B1a and avermectin B1b) (ISO):	
Acute	oral toxicity	: LD50 (Rat): 24 mg/kg	
		LD50 (Mouse): 10 mg/kg	
		LDLo (Monkey): 24 mg/kg Symptoms: Dilatation of the pupil	
Acute	inhalation toxicity	: LC50 (Rat): 0.023 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute	dermal toxicity	: LD50 (Rat): 330 mg/kg	
		LD50 (Rabbit): 2,000 mg/kg	
	corrosion/irritation assified based on ava	able information.	
Comp	onents:		
Levar	nisole hydrochloride		
Rema	rks	: No data available	
Coba	t disodium ethylene	iaminetetraacetate:	
Speci		: Rabbit	
مطئما		: OECD Test Guideline 404 : No skin irritation	
Metho Resul			



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Speci Metho Resu	bc	<ul> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> </ul>
	acid:	
Speci Metho		: Rabbit : OECD Test Guideline 404
Resu		: No skin irritation
Sodiu	um selenate:	
Speci Metho		<ul><li>reconstructed human epidermis (RhE)</li><li>OECD Test Guideline 431</li></ul>
Speci		: reconstructed human epidermis (RhE)
Metho	bd	: OECD Test Guideline 439
Resu	lt	: Skin irritation
abam	nectin (combination	of avermectin B1a and avermectin B1b) (ISO):
Speci		: Rabbit
Result		: No skin irritation
<u> </u>	. ,	
Not c	ous eye damage/eye lassified based on ava ponents:	
Not c <u>Com</u> j	lassified based on ava ponents:	ailable information.
Not c <u>Com</u> j	lassified based on ava ponents: misole hydrochlorid	ailable information.
Not c <u>Com</u> Leva Rema	lassified based on ava ponents: misole hydrochlorid arks	ailable information.
Not c <u>Com</u> Leva Rema Coba Speci	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene	ailable information. le: : No data available
Not c <u>Com</u> Leva Rema Coba Speci Resu	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation
Not c <u>Com</u> Leva Rema Coba Speci	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It	ailable information. le: : No data available ediaminetetraacetate: : Rabbit
Not c <u>Com</u> Leva Rema Speci Resu Rema	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation
Not c <u>Com</u> Leval Rema Speci Resu Rema Benz Speci	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit
Not c Com Leva Rema Speci Resu Rema Benz Speci Resu	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies It	ailable information. He: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Rabbit : Irritation to eyes, reversing within 21 days
Not c <u>Com</u> Leval Rema Speci Resu Rema Benz Speci	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies It	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit
Not c <u>Com</u> Leval Rema Speci Resu Rema Benz Speci Resu Metho	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies It	ailable information. He: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Rabbit : Irritation to eyes, reversing within 21 days
Not c Comj Leval Rema Speci Resu Resu Resu Metho Speci Citric Speci	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies It od acid: ies	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Irritation to eyes, reversing within 21 days : OECD Test Guideline 405 : Rabbit
Not c <u>Com</u> Leval Rema Speci Resu Resu Resu Metho Speci Resu Metho Speci Resu Metho	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies It od acid: ies It	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Irritation to eyes, reversing within 21 days : OECD Test Guideline 405 : Rabbit : Rabbit : Rabbit : Irritation to eyes, reversing within 21 days
Not c Comj Leval Rema Speci Resu Resu Resu Metho Speci Citric Speci	lassified based on ava ponents: misole hydrochlorid arks It disodium ethylene ies It arks yl alcohol: ies It od acid: ies It	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Irritation to eyes, reversing within 21 days : OECD Test Guideline 405 : Rabbit
Not c <u>Com</u> Leval Rema Speci Resu Rema Benz Speci Resu Metho Speci Resu Metho Speci Resu Metho	lassified based on ava ponents: misole hydrochlorid arks arks arks yl alcohol: ies lt od acid: ies lt od um selenate:	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Irritation to eyes, reversing within 21 days : OECD Test Guideline 405 : Rabbit : Rabbit : Rabbit : OECD Test Guideline 405
Not c <u>Com</u> Leval Rema Speci Resu Resu Metho Speci Resu Metho	lassified based on ava ponents: misole hydrochlorid arks arks arks yl alcohol: ies lt od acid: ies lt od um selenate: ies	ailable information. le: : No data available ediaminetetraacetate: : Rabbit : No eye irritation : Based on data from similar materials : Rabbit : Irritation to eyes, reversing within 21 days : OECD Test Guideline 405 : Rabbit : Rabbit : Rabbit : Irritation to eyes, reversing within 21 days



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Re	sult	:	No eye irritation	
ab	amectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):
Sp	ecies	:	Rabbit	
	sult	:	Mild eye irritation	
Re	spiratory or skin sensitiz	atio	on	
Sk	in sensitization			
Nc	t classified based on availa	able	information.	
Re	spiratory sensitization			
	ay cause allergy or asthma	syn	nptoms or breathing	difficulties if inhaled.
<u>Cc</u>	emponents:			
Le	vamisole hydrochloride:			
Re	marks	:	No data available	
Co	balt disodium ethylenedi	iam	inetetraacetate:	
	outes of exposure	:	inhalation (dust/m	ist/fume)
	ecies	:	Humans	
	esult emarks	:	positive Based on data fro	om similar materials
		•		
As	sessment	:	Probability or evic sensitization rate	lence of low to moderate respiratory in humans
Ве	nzyl alcohol:			
Те	st Type	:	Maximization Tes	t
Ro	utes of exposure	:	Skin contact	
	ecies	:	Guinea pig	
	ethod esult	:	OECD Test Guide negative	eline 406
			Ū.	
	amectin (combination of	ave		
	st Type	:	Maximization Tes	t
	outes of exposure	:	Skin contact Not a skin sensitiz	zer
	oun	•		
	rm cell mutagenicity		<b>.</b> .	
Su	spected of causing genetic	de	lects.	
<u>Cc</u>	mponents:			
Le	vamisole hydrochloride:			
Ge	enotoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)



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			Test Type: Chro Result: negative	mosome aberration test in vitro
Coba	It disodium ethylene	diami	netetraacetate:	
	toxicity in vitro	:	Test Type: Bact Method: OECD	erial reverse mutation assay (AMES) Test Guideline 471
			Result: negative Remarks: Based	d on data from similar materials
				ro mammalian cell gene mutation test Test Guideline 476
				d on data from similar materials
				mosome aberration test in vitro Test Guideline 473
				d on data from similar materials
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Application Rou	
			Result: positive	d on data from similar materials
			Result: positive	d on data from similar materials
				ent dominant lethal test (germ cell) (in vivo)
			Application Rou Result: positive Remarks: Based	te: Ingestion d on data from similar materials
	cell mutagenicity -	:	genicity tests.	) from in vivo mammalian somatic cell muta-
			Remarks: Based	d on data from similar materials
	yl alcohol:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic assa Species: Mouse	
			Application Rou Result: negative	te: Intraperitoneal injection



Citric acid: Genotoxicit	y in vitro	:	Result: negative Test Type: in vitro Result: positive Test Type: Bacte Result: negative	rial reverse mutation assay (AMES) o micronucleus test rial reverse mutation assay (AMES)
Genotoxicit	y in vitro	:	Result: negative Test Type: in vitro Result: positive Test Type: Bacte Result: negative	o micronucleus test
Genotoxicit	y in vivo	:	Result: positive Test Type: Bacte Result: negative	
Genotoxicit	y in vivo	:	Result: negative	rial reverse mutation assay (AMES)
Genotoxicit	y in vivo	:	Test Type: Mutac	
				genicity (in vivo mammalian bone-marro chromosomal analysis) e: Ingestion
Sodium se	lenate:			
Genotoxicit	y in vitro	:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials
Genotoxicit	y in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
				o mammalian cell gene mutation test nese hamster lung cells
			Test Type: Alkaliı Result: negative	ne elution assay
Genotoxicit	y in vivo	:	cytogenetic test, Species: Mouse	genicity (in vivo mammalian bone-marro chromosomal analysis)
			Application Route Result: negative	e: Intraperitoneal injection
<b>Carcinoge</b> Suspected	nicity of causing cancer.			
Componen	its:			
Levamisol	e hydrochloride:			
Species Application Exposure ti NOAEL		::	Mouse Oral 2 Years 80 mg/kg body w	



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Rema	arks	:	No significant ad	verse effects were reported
Speci		:	Rat	
	cation Route	:	Oral	
	sure time	:	2 Years	
NOAE Rema		:	40 mg/kg body v No significant ad	veight lverse effects were reported
Coba	It disodium ethylene	diam	inetetraacetate:	
Speci	-		Rat	
	cation Route	:	inhalation (dust/r	nist/fume)
	sure time	:	105 weeks	histranic)
Resu		:	positive	
Rema		:		om similar materials
Speci		:	Mouse	
	cation Route	:	inhalation (dust/r	nist/fume)
	sure time	:	105 weeks	
Resu		:	positive	
Rema	arks	:	Based on data fr	om similar materials
Carcii ment	nogenicity - Assess-	:		e of carcinogenicity in animal studies I on data from similar materials
Benz	yl alcohol:			
Speci	es	:	Mouse	
Applic	cation Route	:	Ingestion	
Expos	sure time	:	103 weeks	
Metho		:	OECD Test Guid	leline 451
Resu	lt	:	negative	
abam	ectin (combination o	f ave	rmectin B1a and	avermectin B1b) (ISO):
Speci	es	:	Rat	
	cation Route	:	Oral	
	sure time	:	105 weeks	
Resu		:	negative	
Speci		:	Mouse	
	cation Route	:	Oral	
	sure time	:	93 weeks	
Resu	lt	:	negative	
•	oductive toxicity ected of damaging ferti	ilitv. S	Suspected of dama	aging the unborn child.
-	oonents:	, -		
	misole hydrochloride	:		
	s on fertility	:	Test Type: Three	e-generation reproduction toxicity study
2.100		•	Species: Rat	

Application Route: Oral



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				Result: No signific	ant adverse effects were reported
	Effects	on fetal development	:	Species: Rat Application Route	oxicity: NOAEL: 20 mg/kg body weight
				Species: Rabbit Application Route	oxicity: LOAEL: 40 mg/kg body weight
	Reprod sessme	uctive toxicity - As- nt	:	Some evidence of animal experimen	f adverse effects on development, based on ts.
	Cobalt	disodium ethylenedi	ami	netetraacetate:	
		on fertility	:	Test Type: Fertility Species: Rat Application Route Result: positive Remarks: Based of Test Type: Fertility Species: Mouse Application Route Result: positive Remarks: Based of Test Type: Fertility Species: Mouse Application Route Result: positive Remarks: Based of Test Type: Fertility Species: Rat Application Route Result: positive	on data from similar materials y/early embryonic development
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD Te Result: negative	o-fetal development : Ingestion
	Reprodi sessme	uctive toxicity - As- nt	:	fertility, based on	f adverse effects on sexual function and animal experiments. on data from similar materials



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	Benzvl	alcohol:			
	-	on fertility	:	Species: Rat Application Route Result: negative	//early embryonic development : Ingestion on data from similar materials
	Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development Ingestion
	Citric a	cid:			
	Effects	on fetal development	:	Test Type: One-ge Species: Rat Application Route Result: negative	eneration reproduction toxicity study
	Sodiun	n selenate:			
	Effects	on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study Ingestion on data from similar materials
	Effects	on fetal development	:	Species: Mouse Application Route Result: negative	o-fetal development : Ingestion on data from similar materials
	abame	ctin (combination of a	aver	mectin B1a and a	vermectin B1b) (ISO):
		on fertility			/ e : Oral
				Species: Rat Application Route	Development: NOAEL: 0.12 mg/kg body
	Effects	on fetal development	:	Species: Mouse Application Route General Toxicity N Developmental To Result: Cleft palat	Maternal: NOAEL: 0.05 mg/kg body weight oxicity: NOAEL: 0.2 mg/kg body weight



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

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	Reproc	ductive toxicity - As- ent	Species: Rabbit Application Route Developmental T Result: Cleft pala survival Remarks: Advers Test Type: Devel Species: Rat Application Route Developmental T Result: Teratoger : Some evidence of fertility, based on	oxicity: LOAEL: 2 mg/kg body weight te, Teratogenic effects., Reduced embryonic e developmental effects were observed opment e: Oral oxicity: LOAEL: 1.6 mg/kg body weight

#### STOT-single exposure

Not classified based on available information.

#### Components:

#### Citric acid:

Assessment

: May cause respiratory irritation.

#### STOT-repeated exposure

Causes damage to organs (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:

#### Levamisole hydrochloride:

Target Organs	:	Blood, Testis
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

#### Cobalt disodium ethylenediaminetetraacetate:

Routes of exposure	:	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
Routes of exposure	:	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.



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Rer	narks	: Based on data	from similar materials
Rou	lium selenate: ites of exposure essment		uce significant health effects in animals at con- 10 mg/kg bw or less.
aba	mectin (combination of	avermectin B1a an	d avermectin B1b) (ISO):
Rou	ites of exposure	: Ingestion	
	get Organs essment	<ul> <li>Central nervou</li> <li>Causes damaç exposure.</li> </ul>	is system ge to organs through prolonged or repeated
Rep	peated dose toxicity		
<u>Cor</u>	nponents:		
	amisole hydrochloride:		
	cies	: Rat	
	AEL Ilication Route	: 2.5 mg/kg : Oral	
	osure time	: 18 Months	
	get Organs	: Testis	
Spe	cies	: Dog	
LÖA		: 20 mg/kg	
	lication Route	: Oral	
	osure time get Organs	: 18 Months : Blood	
Spe	cies	: Dog	
LÖA		: 40 mg/kg	
	lication Route	: Oral	
Exp	osure time	: 3 Months	
Col	oalt disodium ethylened	iaminetetraacetate	:
	cies	: Rat	
LOA		: > 10 mg/kg	
	lication Route	: Ingestion	
	osure time narks	: 90 Days Based on data	from similar materials
-			
	cies	: Rat	
LOA	AEL Ilication Route	: < 0.01 mg/l : inhalation (dus	t/mist/fume)
	osure time	: 13 Weeks	
Met		: OECD Test Gu	uideline 413
	narks		from similar materials
Spe	cies	: Mouse	
ĽÖA		: < 0.01 mg/l	



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Application Route Exposure time Method Remarks	<ul> <li>inhalation (dust/mist/fume)</li> <li>13 Weeks</li> <li>OECD Test Guideline 413</li> <li>Based on data from similar materials</li> </ul>
<b>Benzyl alcohol:</b> Species NOAEL Application Route Exposure time Method	<ul> <li>Rat</li> <li>1.072 mg/l</li> <li>inhalation (dust/mist/fume)</li> <li>28 Days</li> <li>OECD Test Guideline 412</li> </ul>
<b>Citric acid:</b> Species NOAEL LOAEL Application Route Exposure time	<ul> <li>Rat</li> <li>4,000 mg/kg</li> <li>8,000 mg/kg</li> <li>Ingestion</li> <li>10 Days</li> </ul>
Sodium selenate: Species NOAEL Application Route Exposure time	: Rat : 0.4 mg/kg : Ingestion : 13 Weeks
abamectin (combination Species NOAEL Application Route Exposure time Target Organs Symptoms Species NOAEL	of avermectin B1a and avermectin B1b) (ISO): Rat 1.5 mg/kg Oral 24 Months Central nervous system Tremors, ataxia Mouse 4.0 mg/kg
Application Route Exposure time Target Organs Symptoms	<ul> <li>Oral</li> <li>24 Months</li> <li>Central nervous system</li> <li>Tremors, ataxia</li> </ul>
Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms Remarks Species	<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 system</li> <li>Tremors, weight loss</li> <li>mortality observed</li> <li>Monkey</li> </ul>



/ersion I.3	Revision Date: 04.12.2023		0S Number: 813892-00004	Date of last issue: 30.09.2023 Date of first issue: 12.07.2022		
Appli Expo	NOAEL Application Route Exposure time Target Organs		1.0 mg/kg Oral 14 Weeks Central nervous s	ystem		
-	ration toxicity lassified based on availa	ble	information.			
Expe	rience with human exp	osu	ire			
Com	ponents:					
Leva	misole hydrochloride:					
Inges	-	:	Symptoms: Nause tension	ea, Vomiting, Headache, Dizziness, hypo-		
Coba	alt disodium ethylenedi	ami	netetraacetate:			
Inhala	ation	:	Target Organs: R	espiratory system on data from similar materials		
Inges	stion	:	Target Organs: B	lood on data from similar materials eart		
aban	nectin (combination of	ave	rmectin B1a and a	avermectin B1b) (ISO):		
Inges	Ingestion		Symptoms: May cause, Tremors, Diarrhea, central nervous system effects, Salivation, tearing			
SECTION	12. ECOLOGICAL INFO	DRN	IATION			
Ecot	oxicity					
<u>Com</u>	ponents:					
Leva	misole hydrochloride:					
Toxic	sity to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD T			
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T			
Coba	Cobalt disodium ethylenediaminetetraacetate:					
Toxic	tity to daphnia and other tic invertebrates		EC50 (Daphnia m Exposure time: 48 Method: OECD T			
Toxic plants	sity to algae/aquatic s	:	ErC50 (Raphidoc 100 mg/l Exposure time: 72 Method: OECD T	elis subcapitata (freshwater green alga)): > 2 h est Guideline 201		



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				Remarks: Based of	on data from similar materials
	oxicity city)	to fish (Chronic tox-	:	Exposure time: 34	(zebra fish)): > 1 mg/l d on data from similar materials
а	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	Exposure time: 28 Method: OECD Te	
	-	<b>alcohol:</b> to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
а		invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
С	itric a	cid:			
Т	oxicity	to fish	:	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
S	odium	n selenate:			
Т	oxicity	to fish	:	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 5 h on data from similar materials
	oxicity lants	to algae/aquatic	:	ErC50 (Chlamydo Exposure time: 96	monas reinhardtii (green algae)): 245 µg/l bh



/ersion I.3	Revision Date: 04.12.2023		9S Number: 813892-00004	Date of last issue: 30.09.2023 Date of first issue: 12.07.2022
			NOEC (Chlamyd Exposure time: 9	omonas reinhardtii (green algae)): 197 μg/l 6 h
Toxi icity)	city to fish (Chronic tox-	:	mg/l Exposure time: 2	macrochirus (Bluegill sunfish)): > 0.01 - 0.1 58 d on data from similar materials
aqua	Toxicity to daphnia and other aquatic invertebrates (Chron-ic toxicity)		NOEC: > 0.1 - 1 Exposure time: 2 Remarks: Based	
Toxi	city to microorganisms	:	EC10 (activated Exposure time: 3 Method: OECD 1	
aba	nectin (combination of a	ave	rmectin B1a and	avermectin B1b) (ISO):
	city to fish	:		chus mykiss (rainbow trout)): 3.2 µg/l
			LC50 (Lepomis r Exposure time: 9	nacrochirus (Bluegill sunfish)): 9.6 µg/l 6 h
			LC50 (Ictalurus p Exposure time: 9	unctatus (channel catfish)): 24 μg/l 6 h
			LC50 (Cyprinus o Exposure time: 9	carpio (Carp)): 42 μg/l 6 h
			LC50 (Cyprinodo Exposure time: 9	n variegatus (sheepshead minnow)): 15 μξ 6 h
	city to daphnia and other atic invertebrates	:	EC50 (Americam Exposure time: 9	, , , , , , , , , , , , , , , , , , , ,
			EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): 0.34 µg/l 8 h
Toxi plan	city to algae/aquatic ts	:	EC50 (Pseudokir mg/l Exposure time: 7	chneriella subcapitata (green algae)): 100 2 h
Toxi icity)	city to fish (Chronic tox-	:	NOEC (Pimepha Exposure time: 3	les promelas (fathead minnow)): 0.52 μg/l 2 d
aqua	city to daphnia and other atic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.03 μg/l 1 d
	xicity)		NOEC (Mysidops Exposure time: 2	sis bahia (opossum shrimp)): 0.0035 μg/l 8 d



ersion .3	Revision Date: 04.12.2023	SDS Number: 10813892-00004	Date of last issue: 30.09.2023 Date of first issue: 12.07.2022
		Exposure time: Test Type: Resp	3 h biration inhibition
Persi	istence and degrada	bility	
Com	ponents:		
	egradability	: Result: Readily Biodegradation: Exposure time:	92 - 96 %
	<b>acid:</b> egradability	: Result: Readily Biodegradation: Exposure time: 2 Method: OECD	97 %
	•		l avermectin B1b) (ISO):
Stabi	lity in water	: Hydrolysis: 50 %	%(< 12 h)
Bioa	ccumulative potentia	al	
Com	ponents:		
Coba	It disodium ethylene	ediaminetetraacetate:	
	ion coefficient: n- ol/water	: log Pow: -3.86 Remarks: Calcu	lation
Benz	yl alcohol:		
	ion coefficient: n- ol/water	: log Pow: 1.05	
Partit	<b>: acid:</b> ion coefficient: n- iol/water	: log Pow: -1.72	
aban	nectin (combination	of avermectin B1a and	l avermectin B1b) (ISO):
Bioac	cumulation	: Bioconcentration	n factor (BCF): 52
	ion coefficient: n- ol/water	: log Pow: 4	
Mobi	lity in soil		
Com	ponents:		
Distri	nectin (combination bution among environ al compartments		l avermectin B1b) (ISO):



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#### Other adverse effects

No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal 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 handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

<b>UNRTDG</b> UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin
Class	:	B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate) 9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
UN/ID No. Proper shipping name	÷	UN 3082 Environmentally hazardous substance, liquid, n.o.s.
r ioper snipping name	•	(abamectin (combination of avermectin B1a and avermectin B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate)
Class	:	9
Packing group	:	III Missisha a sa sa
Labels Packing instruction (cargo	÷	Miscellaneous 964
aircraft)	•	904
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate)
Class	:	9
Packing group	:	
Labels EmS Code	÷	9 F-A, S-F
Marine pollutant	:	r-A, S-r yes
	•	you



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

Not applicable for product as supplied.

#### **Domestic regulation**

#### NOM-002-SCT

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(abamectin (combination of avermectin B1a and avermectin
		B1b) (ISO), Cobalt disodium ethylenediaminetetraacetate)
Class	:	9
Packing group	:	III
Labels	:	9

#### 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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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

#### **SECTION 16. OTHER INFORMATION**

Revision Date Date format	:	04.12.2023 dd.mm.yyyy	
Full text of other abbreviations			
ACGIH NOM-010-STPS-2014		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits	
		8-hour, time-weighted average Time weighted average limit value	



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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 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

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

MX / Z8