according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	10808156-00007	Date of first issue: 07/05/2022

SECTION 1. IDENTIFICATION

Product name	:	Levamisole / Oxfendazole Formulation
Other means of identification	:	Scanda (A007130)

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
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@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Testis)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Blood, Testis)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs (Liver, Testis) through pro- longed or repeated exposure. H373 May cause damage to organs (Blood, Testis) through prolonged or repeated exposure if swallowed.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P280 Wear protective gloves, protective clothing, eye protection

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	10808156-00007	Date of first issue: 07/05/2022

and face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

: Mixture

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Levamisole hydrochloride	16595-80-5	8
oxfendazole	53716-50-0	4.53
Polyethylene glycol	25322-68-3	2.44
Polyethylene glycol stearate	9004-99-3	1.8
Citric acid	77-92-9	1.76
Silicon, amorphous	112945-52-5	1

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. 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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed Protection of first-aiders	:	May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.

according to the OSHA Hazard Communication Standard



Version 3.0	Revision Date: 07/06/2024		OS Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022			
Notes	s to physician	:	: Treat symptomatically and supportively.				
SECTION	ECTION 5. FIRE-FIGHTING MEASURES						
Suital	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical				
Unsuitable extinguishing media		:	None known.				
Speci fightir	ific hazards during fire	:	Exposure to combustion products may be a hazard to health.				
Haza ucts	Hazardous combustion prod-		Carbon oxides				
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 o so. Evacuate area.				
•	ial protective equipment e-fighters	nt : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.					
SECTION	6. ACCIDENTAL RELE	ASI	E MEASURES				
Perso	onal precautions, protec-	:	Use personal pro	tective equipment.			

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).
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 diking or other appropriate containment to keep material from spreading. If diked material 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 items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures		g measures under EXPOSURE ERSONAL PROTECTION section.
Loca	I/Total ventilation		tilation is unavailable, use with local exhaust
Advice on safe handling		Do not swallow Avoid contact v Handle in acco practice, based assessment Keep container	mist or vapors. vith eyes. rdance with good industrial hygiene and safety on the results of the workplace exposure
Conc	litions for safe storage	Store locked up Keep tightly clo	sed.
Mate	rials to avoid	: Do not store wi Strong oxidizing	ibstances 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 ²	Internal
oxfendazole	53716-50-0	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm ²	Internal
Polyethylene glycol	25322-68-3	TWA (aero- sol)	10 mg/m³	US WEEL
Polyethylene glycol stearate	9004-99-3	TWA (Inhal- able particu- late matter)	10 mg/m ³	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m ³	ACGIH
Silicon, amorphous	112945-52-5	TŴA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3





rsion Revision Date: 07/06/2024		SDS Number: 10808156-0000		Date of last issue: 04/06/2024 Date of first issue: 07/05/2022			
			TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3		
			TWA	6 mg/m ³ (Silica)	NIOSH RE		
Engir	neering measures	technologies less quick co All engineer design and o protect prod Containmen are required	ing controls shoul operated in accord ucts, workers, and t technologies sui to control at sour nd to uncontrolled t devices).	ne concentrations d be implemented dance with GMP I d the environmen itable for controllin ce and to prevent	e (e.g., drip- d by facility principles to t. ng compounds t migration of		
Perso	onal protective equip	nent					
Respi	iratory protection	maintain var concentratic unknown, ar Follow OSH use NIOSH/ by air purifyi hazardous c supplied res release, exp	I local exhaust ve por exposures belons are above reco propriate respirat A respirator regul MSHA approved ing respirators ago chemical is limited pirator if there is a posure levels are us e where air purify otection.	ow recommended ommended limits tory protection sh ations (29 CFR 19 respirators. Prote ainst exposure to . Use a positive p any potential for u unknown, or any o	d limits. Where or are ould be worn. 910.134) and ction provided any ressure air incontrolled other		
Hand	protection						
Ma	aterial	: Chemical-re	sistant gloves				
	emarks protection	: Wear safety If the work e mists or aer Wear a face	uble gloving. glasses with side environment or act osols, wear the ap shield or other ful direct contact to t	tivity involves dus opropriate goggles I face protection i	ty conditions, s. f there is a		
Skin a	and body protection	: Work uniforr Additional b task being p disposable s	m or laboratory co ody garments sho erformed (e.g., sl suits) to avoid exp riate degowning te ed clothing.	ould be used base eevelets, apron, g osed skin surface	gauntlets, es.		
Hygie	ne measures	: If exposure eye flushing working plac When using Wash conta	to chemical is like systems and safe	ety showers close or smoke. pefore re-use.	e to the		

according to the OSHA Hazard Communication Standard



Version 3.0	Revision Date: 07/06/2024		S Number: 308156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
			appropriate degov	ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the tive controls.
SECTION	9. PHYSICAL AND CHE	ΞΜΙΟ		8
Арре	earance	:	Aqueous solutior	1
Colo	r	:	No data available	9
Odo	r	:	No data available	9
Odo	r Threshold	:	No data available	9
рН		:	No data available	9
Melti	ng point/freezing point	:	No data available	9
Initia rang	l boiling point and boiling e	:	No data available	9
Flas	n point	:	No data available	9
Evap	poration rate	:	No data available	9
Flam	nmability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available)
	er explosion limit / Lower mability limit	:	No data available	9
Vapo	or pressure	:	No data available	9
Rela	tive vapor density	:	No data available	9
Rela	tive density	:	No data available	9
Dens	sity	:	No data available	9
	bility(ies) /ater solubility	:	No data available	9
	tion coefficient: n-	:	Not applicable	
	nol/water ignition temperature	:	No data available	9
Deco	omposition temperature	:	No data available	9
Visc	osity			

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
Vi	iscosity, kinematic	: No data availa	ıble
Explo	osive properties	: Not explosive	
Oxidizing properties		: The substance	e or mixture is not classified as oxidizing.
Molecular weight		: No data availa	ble
	cle characteristics cle size	: 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
:	No hazardous decomposition products are known.
	:

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 2,250 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

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

rsion	Revision Date: 07/06/2024		OS Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
oxfend	dazole:			
Acute	oral toxicity	:	LD50 (Rat): > 6,0	00 mg/kg
			LD50 (Dog): 1,60	0 mg/kg
			LD50 (sheep): 25	i0 mg/kg
Polyet	hylene glycol:			
Acute	oral toxicity	:		00 mg/kg est Guideline 423 on data from similar materials
Acute of	dermal toxicity	:	LD50 (Rat): > 2,0 Remarks: Based	00 mg/kg on data from similar materials
Polyet	hylene glycol stearat	e:		
Acute	oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Citric a	acid:			
Acute	oral toxicity	:	LD50 (Mouse): 5,	,400 mg/kg
Acute	dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute derm
Silicor	n, amorphous:			
	oral toxicity	:		00 mg/kg est Guideline 401 on data from similar materials
Acute i	inhalation toxicity	:	tion toxicity	h
Acute	dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5,000 mg/kg on data from similar materials
	orrosion/irritation assified based on availa	able	information.	
Comp	onents:			
Levam	hisole hydrochloride: ks			

oxfendazole:

according to the OSHA Hazard Communication Standard



Version 3.0	Revision Date: 07/06/2024	SDS Number:Date of last issue: 04/06/202410808156-00007Date of first issue: 07/05/2022	
Specie Resul		: Rabbit : No skin irritation	
Polye Specie Metho Resul Rema	od t	 Rabbit OECD Test Guideline 404 No skin irritation Based on data from similar materials 	
Polye	thylene glycol stearat		
Specie Metho Resul	d	 Rabbit Draize Test No skin irritation 	
Citric	acid:		
Specie Metho Resul	d	 Rabbit OECD Test Guideline 404 No skin irritation 	
Silico	n, amorphous:		
Specie Metho Resul Resul	d t	 Rabbit OECD Test Guideline 404 No skin irritation Based on data from similar materials 	
Not cl	us eye damage/eye irr assified based on avail ponents:		
	nisole hydrochloride:		
Rema	•	: No data available	
oxfen	dazole:		
Specie Resul	es	: Rabbit : No eye irritation	
Polye	thylene glycol:		
Specie Resul Metho	es t	 Rabbit No eye irritation OECD Test Guideline 405 	
Rema	rks	: Based on data from similar materials	
Polye	thylene glycol stearat	:	
Speci		: Rabbit	
Resul ⁻ Metho		: No eye irritation : Draize Test	

according to the OSHA Hazard Communication Standard



Vers 3.0	sion	Revision Date: 07/06/2024	-	DS Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
	Citric a Species Result Method	S	:	Rabbit Irritation to eyes, OECD Test Guide	reversing within 21 days eline 405
	Silicon Species Result Methoo Remark	I		Rabbit No eye irritation OECD Test Guide Based on data fro	eline 405 om similar materials
	Respir	atory or skin sensitiz	atic	on	
		ensitization ssified based on availa	ahle	information	
	Respir	atory sensitization ssified based on availa			
	Compo	onents:			
	Levam Remarl	isole hydrochloride: <s< td=""><td>•</td><td>No data available</td><td></td></s<>	•	No data available	
	Test Ty	of exposure s		Maximization Tes Skin contact Guinea pig negative Based on data fro	t om similar materials
	Polvet	hylene glycol stearat	e:		
	Test Ty	vpe of exposure	:	Open epicutaneou Skin contact Guinea pig negative	us test
		cell mutagenicity ssified based on availa	able	information.	
	Compo	onents:			
		isole hydrochloride: exicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Chrom Result: negative	nosome aberration test in vitro
	oxfend	azole:			

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version 3.0	Revision Date: 07/06/2024		S Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
Gen	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
Gen	otoxicity in vivo	:		jenicity (in vivo mammalian bone-marrow chromosomal analysis) e: Oral
Poly	/ethylene glycol:			
-	otoxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
Poly	othylene alycol stear	ato.		
	Polyethylene glycol stearate Genotoxicity in vitro		Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
Citr	ic acid:			
	otoxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitro Result: positive	o micronucleus test
			Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
Gen	otoxicity in vivo	:		jenicity (in vivo mammalian bone-marrow chromosomal analysis)
			Application Route Result: negative	
Silic	con, amorphous:			
	otoxicity in vitro	:		rial reverse mutation assay (AMES)
			Method: OECD T Result: negative Remarks: Based	est Guideline 471 on data from similar materials
Gen	otoxicity in vivo	:	cytogenetic test, o Species: Rat Application Route Result: negative	jenicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion on data from similar materials

Carcinogenicity

Not classified based on available information.

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

sion	Revision Date: 07/06/2024	SDS Number:Date of last issue: 04/06/202410808156-00007Date of first issue: 07/05/2022
<u>Comp</u>	oonents:	
Levar	nisole hydrochloride	2:
Speci Applic	es cation Route sure time L	 Mouse Oral 2 Years 80 mg/kg body weight No significant adverse effects were reported
	cation Route sure time EL	 Rat Oral 2 Years 40 mg/kg body weight No significant adverse effects were reported
oxfen	dazole:	
Expos Symp	cation Route sure time	 Rat Oral 1 Years No adverse effects. Liver
Expos Symp	cation Route sure time	 Rat Oral 2 Years No adverse effects. Liver
Silico	n, amorphous:	
Speci Applic	es cation Route sure time t	 Rat Ingestion 103 weeks negative Based on data from similar materials
IARC		ent of this product present at levels greater than or equal to 0.1% is s probable, possible or confirmed human carcinogen by IARC.
OSH/		ent of this product present at levels greater than or equal to 0.1% is list of regulated carcinogens.
NTP		ent of this product present at levels greater than or equal to 0.1% is s a known or anticipated carcinogen by NTP.

Components:

Levamisole hydrochloride:

- Effects on fertility
- Test Type: Three-generation reproduction toxicity study Species: Rat

:

according to the OSHA Hazard Communication Standard



Versi 3.0		Revision Date: 07/06/2024		0S Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
				Application Route Result: No signific	: Oral cant adverse effects were reported
I	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
	Reprodu sessmer	ictive toxicity - As- nt	:	Some evidence o animal experimen	f adverse effects on development, based on ts.
	oxfenda Effects c	i zole: on fertility	:	Species: Rat, mal Application Route	: Oral 17 mg/kg body weight estes
				Species: Rat Application Route	0.9 mg/kg body weight ver
					: Oral e Treatment: 1 Months 750 mg/kg body weight estes
I	Effects c	on fetal development	:	Species: Rat Application Route	oxicity: NOAEL: 10 mg/kg body weight
				Species: Rat Developmental To	ro-fetal development oxicity: NOAEL: 10 mg/kg body weight Embryo-fetal toxicity.
				Test Type: Embry	ro-fetal development

according to the OSHA Hazard Communication Standard



)	Revision Date: 07/06/2024		0S Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
				: Oral oxicity: NOAEL: 108 mg/kg body weight Embryo-fetal toxicity., Fetal abnormalities.
			Species: Rabbit Application Route	ro-fetal development : Oral oxicity: NOAEL: 0.625 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	fertility, based on	adverse effects on sexual function and animal experiments., Clear evidence of n development, based on animal
Citric	acid:			
	ts on fetal development	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Silico	on, amorphous:			
Effects on fetal development		:	Species: Rat Application Route Result: negative	-
			Remarks. Daseu	on data from similar materials
Not c	F-single exposure lassified based on availa ponents:	ble		on data from similar materials
Not cl <u>Com</u>	lassified based on availa ponents:	ble		on data from similar materials
Not cl <u>Com</u> Citric	lassified based on availa	ble :		
Not cl <u>Comp</u> Citric Asses STOT May co May co lowed	lassified based on availa ponents: ssment F-repeated exposure cause damage to organs cause damage to organs	: (Liv	information. May cause respir ver, Testis) through	
Not cl <u>Comp</u> Citric Asses STOT May co May co lowed	lassified based on availa ponents: acid: ssment F-repeated exposure cause damage to organs cause damage to organs	: (Liv	information. May cause respir ver, Testis) through	atory irritation.
Not cl Comp Citric Asses STOT May c May c lowect Comp Leval Targe	lassified based on availa ponents: ssment F-repeated exposure cause damage to organs cause damage to organs	: (Liv	information. May cause respir ver, Testis) through ood, Testis) throug Blood, Testis	atory irritation. prolonged or repeated exposure. h prolonged or repeated exposure if swal-
Not cl <u>Comp</u> Citric Asses STOT May c lowect <u>Comp</u> Leval Targe Asses	lassified based on availa ponents: acid: ssment F-repeated exposure cause damage to organs cause damage to organs d. ponents: misole hydrochloride: et Organs	: (Liv	information. May cause respir ver, Testis) through ood, Testis) throug Blood, Testis May cause dama	atory irritation.

according to the OSHA Hazard Communication Standard



ersion .0	Revision Date: 07/06/2024	SDS Number:Date of last issue: 04/06/202410808156-00007Date of first issue: 07/05/2022				
Asses	ssment	: May cause damage to organs through prolonged or repeated exposure.				
Repe	ated dose toxicity					
Com	oonents:					
Leva	misole hydrochloride:					
Speci		: Rat				
NOAE		: 2.5 mg/kg : Oral				
	cation Route sure time	: 18 Months				
	et Organs	: Testis				
Speci		: Dog				
LOAE Applie	cation Route	: 20 mg/kg : Oral				
	sure time	: 18 Months				
	et Organs	: Blood				
Speci		: Dog				
LOAE Applie	:L cation Route	: 40 mg/kg : Oral				
	sure time	: 3 Months				
oxfer	idazole:					
Speci		: Rat				
NOAE		: 11 mg/kg				
	cation Route sure time	: Oral : 2 Weeks				
	et Organs	: Blood, Liver, Testis				
Speci		: Rat				
NOAE	L Cation Route	: 3.8 mg/kg : Oral				
	sure time	: 3 Months				
	et Organs	: Liver, Testis				
Speci		: Mouse				
NOAE Appli	EL cation Route	: 750 mg/kg : Oral				
	sure time	: 1 Months				
	et Organs	: Liver				
Speci NOAE		: Mouse				
	=∟ cation Route	: 37.5 mg/kg : Oral				
	sure time	: 3 Months				
	et Organs	: Liver				
Speci NOAE		: Dog				
	=∟ cation Route	: 6 mg/kg : Oral				

according to the OSHA Hazard Communication Standard



Version 3.0	Revision Date: 07/06/2024		S Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
Exposu Remarl	ure time ks	:	1 Months No significant adv	erse effects were reported
Exposu		: : : : : : : : : : : : : : : : : : : :	Dog 11 mg/kg Oral 2 Weeks Lymph nodes, thy	mus gland
Exposu		· · ·	Dog 13.5 mg/kg Oral 12 Months Liver	
Citric a				
	-	:	Rat 4,000 mg/kg 8,000 mg/kg Ingestion 10 Days	
Silicon	, amorphous:			
	- ition Route ire time	:	Rat 1.3 mg/l inhalation (dust/m 13 Weeks Based on data fro	ist/fume) m similar materials
•	tion toxicity ssified based on availa	ble	information.	
Experie	ence with human exp	osu	re	
Compo	onents:			
Levam Ingestio	isole hydrochloride: on	:	Symptoms: Nause tension	ea, Vomiting, Headache, Dizziness, hypo-
SECTION 1	2. ECOLOGICAL INFO	DRN	IATION	
Ecotox	licity			
	onents:			
	isole hydrochloride: / to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD T	
Toxicity	/ to daphnia and other	:	EC50 (Daphnia m	agna (Water flea)): 64 mg/l
			16 / 23	

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

ersion 0	Revision Date: 07/06/2024		9S Number: 808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
aquatic	aquatic invertebrates		Exposure time: 48 Method: OECD T	3 h est Guideline 202
oxfend	azole:			
Toxicity	<i>t</i> to fish	:	LC50 (Lepomis m Exposure time: 96	acrochirus (Bluegill sunfish)): > 2.7 mg/l S h
			LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 2.5 mg/l ∂ h
	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T	
Toxicity plants	Toxicity to algae/aquatic plants		EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD T	
	v to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 2 ⁴ Method: OECD T	
Polyetł	nylene glycol:			
Toxicity	v to fish	:	Exposure time: 96 Method: OECD T	
Polyetł	hylene glycol stearate):		
Toxicity	v to fish	:	LC50 (Leuciscus Exposure time: 96 Method: DIN 384	
Toxicity	to microorganisms	:	EC10 (Bacteria): : Exposure time: 16	
Citric a	icid:			
Toxicity	v to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h
	v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l

Silicon, amorphous:

according to the OSHA Hazard Communication Standard



Vers 3.0	ion	Revision Date: 07/06/2024		S Number: 308156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
	Toxicity to fish		:	Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Exposure time: 24 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	mus subspicatus (green algae)): > 10,000 h est Guideline 201 on data from similar materials
				mg/l Exposure time: 72 Method: OECD Te	smus subspicatus (green algae)): 10,000 h est Guideline 201 on data from similar materials
	Persist	ence and degradabili	ty		
	Compo	nents:			
	oxfend Stability	azole: / in water	:	Hydrolysis: < 5 %(4 d)
	Polyeth	ylene glycol:			
	Biodegr	adability	:	Result: rapidly deg Remarks: Based o	gradable on data from similar materials
	Polyeth	ylene glycol stearate):		
	Biodegr	adability	:	Result: Readily bid Biodegradation: > Exposure time: 10 Method: OECD Te	· 70 %
	Citric a	cid:			
	Biodegr	adability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: OECD Te	7 %
	Bioacc	umulative potential			
	<u>Compo</u>	nents:			
	oxfend Partitior	azole: n coefficient: n-	:	log Pow: 1.95	

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Versio 3.0	on Revision Date: 07/06/2024	SDS Number: 10808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
00	ctanol/water		
P	Polyethylene glycol: Partition coefficient: n- ctanol/water	: log Pow: < 3	
P	tric acid: Partition coefficient: n- ctanol/water	: log Pow: -1.72	
М	lobility in soil		
<u>c</u>	components:		
D	xfendazole: Distribution among environ- nental compartments	: log Koc: 3.2	
-	Other adverse effects lo data available		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
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

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxfendazole)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (oxfendazole)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version 3.0	Revision Date: 07/06/2024		5 Number: 08156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
En	Environmentally hazardous		yes	
	DG-Code			
-		-		
PIC	Proper shipping name		N.O.S. (oxfendazole)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Cla			9	
	cking group			
=0.1	oels NS Code	-	9 F-A, S-F	
	rine pollutant		ves	
Transport in bulk according Not applicable for product as Domestic regulation		-		OL 73/78 and the IBC Code
20	incono regulation			
-	CFR			
-	I/ID/NA number oper shipping name	-	UN 3082 Environmentally h (oxfendazole)	azardous substance, liquid, n.o.s.
Cla	ISS	: 9	9	
	cking group			
	pels		CLASS 9	
	G Code		171 	
	irine pollutant marks		liters. Shipment by grou may be shipped p	y to containers over 119 gallons or 450 nd under DOT is non-regulated; however it er the applicable hazard classification to dal transport involving ICAO (IATA) or IMO.

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Reproductive toxicity	
		Specific target organ toxicity (single or repeated exposure)	

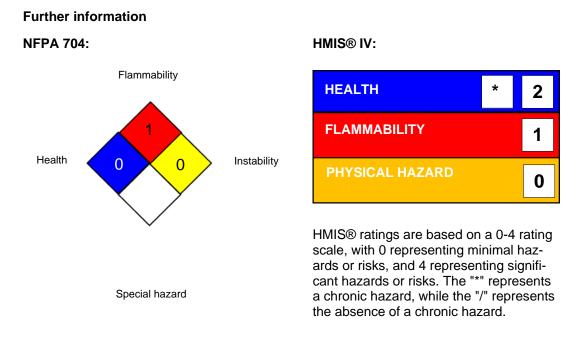
according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
SAR	A 313	known CAS nu	does not contain any chemical components with umbers that exceed the threshold (De Minimis) is established by SARA Title III, Section 313.
US S	tate Regulations		
Penn	nsylvania Right To Ki	now	
	Water Levamisole hydr oxfendazole	ochloride	7732-18-5 16595-80-5 53716-50-0
Calif	ornia Permissible Ex	posure Limits for Ch	nemical Contaminants
	Silicon, amorpho	ous	112945-52-5
The i	ingredients of this pr	oduct are reported i	n the following inventories:
AICS	i	: not determine	d
DSL		: not determine	d
IECS	C	: not determine	d

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)



according to the OSHA Hazard Communication Standard

Levamisole / Oxfendazole Formulation

Version 3.0	Revision Date: 07/06/2024	SDS Number: 10808156-00007	Date of last issue: 04/06/2024 Date of first issue: 07/05/2022
ACGIH / TWA NIOSH REL / TWA OSHA Z-3 / TWA		 8-hour, time-weighted average Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek 8-hour time weighted average 	
	EEL / TWA	: 8-hr TWA	

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amend-ments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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

Revision Date : 07/06/2024

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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

according to the OSHA Hazard Communication Standard



Levamisole / Oxfendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
3.0	07/06/2024	10808156-00007	Date of first issue: 07/05/2022

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.

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