



## Enilconazole Liquid Formulation

VersionRevision Date:SDS Number:Date of last issue: 06/07/20246.209/28/2024906752-00021Date of first issue: 09/22/2016
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### **SECTION 1. IDENTIFICATION**

Product name	:	Enilconazole Liquid Formulation
Other means of identification	:	No data available

### 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 Hazardous Products Regulations

Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 3
Acute toxicity (Inhalation)	:	Category 4
Eye irritation	:	Category 2A
Carcinogenicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H226 Flammable liquid and vapor.

azard Statements	:	<ul> <li>H226 Flammable liquid and vapor.</li> <li>H301 Toxic if swallowed.</li> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs (Liver) through prolonged or</li> </ul>
		H373 May cause damage to organs (Liver) through prolonged or repeated exposure.

according to the Hazardous Products Regulations



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Precautionary Statements :		P202 Do not ha and understood P210 Keep aw and other igniti P260 Do not be P264 Wash sk P270 Do not ea P271 Use only P280 Wear pro	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P260 Do not breathe mist or vapors.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves, protective clothing, eye protection and face protection.</li> </ul>			
		POISON CEN P303 + P361 + all contaminate P304 + P340 + and keep comf unwell. P305 + P351 + for several min to do. Continue P308 + P313 II	<ul> <li>P330 IF SWALLOWED: Immediately call a IER. Rinse mouth.</li> <li>P353 IF ON SKIN (or hair): Take off immediately ed clothing. Rinse skin with water.</li> <li>P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor if you feel</li> <li>P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy e rinsing.</li> <li>F exposed or concerned: Get medical attention.</li> <li>eye irritation persists: Get medical attention.</li> </ul>			
		<b>Storage:</b> P405 Store loc	ked up.			
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents and container to an approved waste			

#### Other hazards

Vapors may form explosive mixture with air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

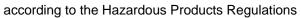
#### Substance / Mixture : Mixture

### Components

Common	CAS-No.	Concentration (% w/w)
Name/Synonym		
docusate sodi-	577-11-7	
um		>= 30 - < 60 *
Imazalil	35554-44-0	>= 10 - < 30 *
Benzenemetha- nol	100-51-6	>= 5 - < 10 *
Ethyl alcohol	64-17-5	>= 1 - < 5
	Name/Synonym docusate sodi- um Imazalil Benzenemetha- nol	Name/Synonym docusate sodi- um Imazalil 35554-44-0 Benzenemetha- nol 100-51-6

# Voluntarily-disclosed substance

<sup>\*</sup> Actual concentration or concentration range is withheld as a trade secret





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SECTION 4. FIRST AID MEASURES					
General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>				
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention.</li> </ul>				
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>				
In case of eye contact	<ul> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention.</li> </ul>				
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Call a physician or poison control center immediately.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>				
Most important symptoms and effects, both acute and delayed	<ul> <li>Gastrointestinal disturbance Toxic if swallowed.</li> <li>Causes serious eye irritation.</li> <li>Harmful if inhaled.</li> <li>Suspected of causing cancer.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> </ul>				
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	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.



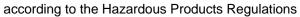
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Haza ucts	rdous combustion prod-	:	Carbon oxides Sulfur oxides Metal oxides	
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
	ial protective equipment e-fighters	:		e, wear self-contained breathing apparatus. tective equipment.
	6. ACCIDENTAL RELE			es of ignition

Personal precautions, protec- tive equipment and emer- gency procedures	:	Remove all sources of ignition. 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	:	Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. 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.

### 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





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Advic	e on safe handling	<ul> <li>ventilation.</li> <li>Use explosion-proof electrical, ventilating and lighting equence.</li> <li>Do not breathe mist or vapors.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and sepractice, based on the results of the workplace exposure assessment</li> <li>Non-sparking tools should be used.</li> <li>Keep container tightly closed.</li> <li>Keep away from heat, hot surfaces, sparks, open flames other ignition sources. No smoking.</li> <li>Take precautionary measures against static discharges.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Take care to prevent spills, waste and minimize release</li> </ul>					
Cond	itions for safe storage	Store locked up Keep tightly clo Keep in a cool, Store in accord	used. well-ventilated place. lance with the particular national regulations.				
Mate	rials to avoid	: Do not store wi Strong oxidizin Self-reactive su Organic peroxi Flammable sol Pyrophoric liqu Pyrophoric soli Self-heating su Substances an flammable gas Explosives Gases	Ibstances and mixtures des ids ids ds bstances and mixtures d mixtures which in contact with water emit				

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Enilconazole	35554-44-0	TWA	0.3 mg/m3 (OEB 2)	Internal
	Further information	ation: Skin		
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m³	CA AB OEL
		STEL	1,000 ppm	CA BC OEL
		STEV	1,000 ppm	CA QC OEL

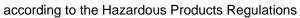


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L					STEL	1,000 ppm	ACGIH	
	Engin	eering measures	:	technologies less quick co All engineeri design and c protect produ	to control ai onnections). ng controls s operated in a ucts, workers	ring controls and many rborne concentrations should be implemented ccordance with GMP p s, and the environment not require special co	(e.g., drip- l by facility principles to	
				Use explosic equipment.	on-proof elec	trical, ventilating and li	ghting	
	Perso	nal protective equipr	nent					
	Respir	atory protection	:	exposure as	sessment de	ventilation is not avai monstrates exposures , use respiratory prote	outside the	
		er type protection	:			nd organic vapor type		
	Ma	terial	:	Chemical-res	sistant glove	S		
	Re	marks	:	Take note th the selection		ct is flammable, which tection.	may impact	
	Eye pr	otection	:	Wear safety If the work e mists or aero Wear a faces	glasses with nvironment c osols, wear th shield or othe	side shields or goggle or activity involves dust ne appropriate goggles er full face protection it at to the face with dusts	ty conditions, 5. <sup>5</sup> there is a	
		nd body protection ne measures	:	Work uniform If exposure t eye flushing working plac When using Wash contar The effective engineering appropriate of	o chemical is systems and e. do not eat, d ninated cloth operation o controls, pro degowning a giene monito	s likely during typical u I safety showers close rink or smoke. hing before re-use. f a facility should inclu per personal protective nd decontamination pr ring, medical surveilla	to the de review of e equipment, rocedures,	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	light yellow
Odor	:	musty
Odor Threshold	:	No data available
рН	:	9.5





# Enilconazole Liquid Formulation

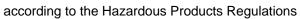
Vers 6.2	sion	Revision Date: 09/28/2024		5 Number: 752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	45 °C	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	1.094	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n-	:	No data available	
		hition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty sosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	e characteristics e size	:	No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Flammable liquid and vapor.



/ersion 5.2	Revision Date: 09/28/2024	-	0S Number: 6752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016
tior	IS			m explosive mixture with air. strong oxidizing agents.
	nditions to avoid ompatible materials	:	Heat, flames an Oxidizing agent Acids	
	zardous decomposition ducts	:	No hazardous c	ecomposition products are known.
SECTIC	N 11. TOXICOLOGICAL	. INFO	ORMATION	
Inh Ski Ing	ormation on likely route alation n contact estion e contact	s of	exposure	
То	ute toxicity kic if swallowed. rmful if inhaled.			
Pro	oduct:			
Acu	ute oral toxicity	:	LD50 (Rat): 192	- 309 mg/kg
Acı	ute inhalation toxicity	:	LC50 (Rat): 3.1 Exposure time: 4 Test atmosphere	ŀĥ
Ас	ute dermal toxicity	:	LD50 (Rabbit): >	900 mg/kg
<u>Co</u>	mponents:			
So	dium bis(2-ethylhexyl)s	ulfos	uccinate:	
Acı	ute oral toxicity	:	LD50 (Rat): 3,08	0 mg/kg
Ас	ute dermal toxicity	:	LD50 (Rabbit): >	5,000 mg/kg
Eni	ilconazole:			
	ute oral toxicity	:	LD50 (Rat): 227 Remarks: Based 1272/2008, Anne	on harmonised classification in EU regulation
			LD50 (Mouse): 3	90 - 620 mg/kg
			LD50 (Dog): > 64	40 mg/kg
Acı	ute inhalation toxicity	:	LC50 (Rat): 1.84 Exposure time: 4 Test atmosphere Remarks: Based 1272/2008, Anne	h e: dust/mist I on harmonised classification in EU regulation





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	Acute dermal toxicity		:	LD50 (Rat): 4,200	- 4,800 mg/kg
				LD50 (Rabbit): 4,2	00 mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): 155 m Application Route:	
	Benzyl	alcohol:			
	Acute o	oral toxicity	:	LD50 (Rat): 1,200	mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat): > 5.4 Exposure time: 4 H Test atmosphere: Method: OECD Te Assessment: The tion toxicity	dust/mist
	Ethanc	ol:			
	Acute c	oral toxicity	:	LD50 (Rat): 10,47 Method: OECD Te	
	Acute i	nhalation toxicity	:	LC50 (Rat, male): Exposure time: 4 h Test atmosphere:	1
	Acute o	dermal toxicity	:	LD50 (Rabbit): > 1	5,800 mg/kg
	Skin co	orrosion/irritation			
	Not cla	ssified based on availa	ble	information.	
	<u>Produc</u>	<u>et:</u>			
	Specie: Result	S	:	Rabbit Mild skin irritation	
	<u>Compo</u>	onents:			
	Sodiur	n bis(2-ethylhexyl)sul	fos	uccinate:	
	Specie	S	:	Rabbit	
	Methoo Result	1	:	OECD Test Guide Skin irritation	line 404
	Enilco	nazole:			
	Specie		:	Rabbit	
	Result	-	÷	Mild skin irritation	
	Benzyl	alcohol:			
	Specie		:	Rabbit	
	Methoo Result	1	:	OECD Test Guide No skin irritation	line 404



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ersion 2	Revision Date: 09/28/2024		0S Number: 6752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016					
Ethan	ol:								
Specie	S	:	Rabbit						
Method		: OECD Test Guideline 404							
Result		:	No skin irritatio	n					
Seriou	is eye damage/eye i	irritati	on						
Cause	s serious eye irritatio	n.							
<u>Produ</u>	<u>ct:</u>								
Specie	S	:	Rabbit						
Result		:	Moderate eye i	rritation					
Comp	onents:								
Sodiu	m bis(2-ethylhexyl)	sulfos	uccinate:						
Specie	es	:	Rabbit						
Result		:	Irreversible effe						
Metho	d	:	OECD Test Gu	ideline 405					
Enilco	nazole:								
Specie	S	:	Rabbit						
Result		:	Irreversible effe	ects on the eye					
Remar	ks	:	Based on harm 1272/2008, Ani	nonised classification in EU regulation nex VI					
Specie	S	:	Rabbit						
Result		:	Moderate eye i						
Remar	ks	:	Based on harm 1272/2008, Ani	nonised classification in EU regulation nex VI					
Benzy	l alcohol:								
Specie	es	:	Rabbit						
Result		:		s, reversing within 21 days					
Metho	d	:	OECD Test Gu	ideline 405					
Ethan	ol:								
Specie	S	:	Rabbit						
Result		:		s, reversing within 21 days					
Metho	d	:	OECD Test Gu	ideline 405					
Respir	ratory or skin sensi	tizatio	'n						
Skin s	ensitization								
Not cla	assified based on ava	ailable	information.						
Respir	ratory sensitization								
Not cla	assified based on ava	ailable	information.						

### Product:

Species

: Guinea pig



according to the Hazardous Products Regulations

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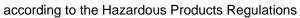
ersion 2	Revision Date: 09/28/2024	SDS Number: 906752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016				
Result		: Not a skin s	ensitizer.				
Com	ponents:						
Sodiu	um bis(2-ethylhexyl)	sulfosuccinate:					
Test	Туре		eat insult patch test (HRIPT)				
Routes of exposure		: Skin contact	t				
Spec Resu		: Humans : negative					
Enilc	onazole:						
Test	Туре	: Maximizatio	n Test				
	es of exposure	: Dermal					
Speci Resu		: Guinea pig : equivocal					
Resu	it.	. equivocai					
Routes of exposure Species Result		: Dermal					
		: Humans : Not a skin sensitizer.					
		: Not a skin s	ensitizer.				
	yl alcohol:						
Test		•	eat insult patch test (HRIPT)				
Spec	es of exposure	: Skin contact : Humans					
Resu		: positive					
Asse	ssment	<ul> <li>Probability or evidence of low to moderate skin sensitizatio rate in humans</li> </ul>					
Ethai	nol:						
Test		: Mouse ear s	swelling test (MEST)				
	es of exposure	: Skin contact					
Speci Resu		: Mouse : negative					
Resu	n.	. nogativo					
	n cell mutagenicity						
	lassified based on ava	ailable information.					
	ponents:						
	um bis(2-ethylhexyl)						
Geno	toxicity in vitro		Bacterial reverse mutation assay (AMES)				

Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473

Method: OECD Test Guideline 471

Test Type: In vitro mammalian cell gene mutation test

Result: equivocal





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		Result: nega	CD Test Guideline 476 tive ised on data from similar materials
	onazole:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			hromosomal aberration Human lymphocytes tive
			ene mutation test Chinese hamster fibroblasts tive
			nscheduled DNA synthesis assay rat hepatocytes tive
Geno	toxicity in vivo	: Test Type: M Species: Rat Application F Result: nega	Route: Oral
		Test Type: M Species: Mor Application F Result: nega	Route: Oral
		Test Type: R Species: Mo Result: nega	
Benz	yl alcohol:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
Geno	toxicity in vivo	cytogenetic a Species: Mo	use Route: Intraperitoneal injection
Etha	nol:		
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
		12 /	22



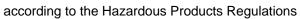
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		Test Type Result: ne	: Chromosome aberration test in vitro gative		
Geno	Genotoxicity in vivo		Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Result: negative		
	<b>inogenicity</b> bected of causing cance	r			
	iponents:	1.			
	conazole:				
Spec Appli	cies ication Route osure time EL	: Rat : Oral : 2 Years : 40 mg/kg : negative	body weight		
Expo LOAI Resu	ication Route osure time EL	: Mouse : Oral : 2 Years : 33 mg/kg : positive : Liver	body weight		
Expo NOA LOAI Resu	ication Route osure time .EL EL ult et Organs	: 105 mg/kg : positive : Liver : Based on	s ody weight j body weight		
Carc ment	inogenicity - Assess- t	: Limited ev	idence of carcinogenicity in animal studies		
Benz	zyl alcohol:				
Spec Appli	cies ication Route osure time nod	: Mouse : Ingestion : 103 weeks : OECD Te : negative	s st Guideline 451		

### Reproductive toxicity

Not classified based on available information.



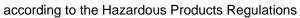


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<u>Com</u>	ponents:				
Sodi	um bis(2-ethylhexyl)su	lfos	uccinate:		
	Effects on fertility		Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative		
Effec	ts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion	
Enilo	conazole:				
Effec	ts on fertility	:	Result: Maternal t adverse effects of Remarks: Not cla		
Effec	ts on fetal development	:	Result: Reduced adverse effects of maternally toxic d	e: Oral oxicity: LOAEL: 80 mg/kg body weight fetal weight., Embryotoxic effects and n the offspring were detected only at high	
			Result: Maternal t Postimplantation	e: Oral oxicity: LOAEL: 10 mg/kg body weight toxicity observed., No teratogenic effects.,	
Benz	yl alcohol:				
	ts on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development :: Ingestion on data from similar materials	
Effec	ts on fetal development	:	Test Type: Embry Species: Mouse Application Route	vo-fetal development : Ingestion	



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Version 6.2	Revision Date: 09/28/2024		ue: 06/07/2024 sue: 09/22/2016				
		Result: negative					
Etha	nol·						
	ts on fertility	: Test Type: Two-generation repro- Species: Mouse Application Route: Ingestion Result: negative	Application Route: Ingestion				
	<b>T-single exposure</b> classified based on ava	ble information					
	T-repeated exposure	(Liver) through prolonged or repeated	exposure				
-		Livery introdyn protonged of repeated					
	ponents:						
	conazole:						
	Target Organs: LiverAssessment: May cause damage to organs through prolonged or repea exposure.						
Repe	eated dose toxicity						
<u>Prod</u>	uct:						
Spec		: Rabbit					
NOA		: 1 mg/kg					
	cation Route sure time	: Dermal : 21 d					
	otoms	: No adverse effects.					
<u>Com</u>	ponents:						
Sodi	um bis(2-ethylhexyl)s	fosuccinate:					
Spec		: Rat					
NOA		: 750 mg/kg					
	cation Route sure time	: Ingestion : 90 Days					
Enilc	onazole:						
Spec		: Rat					
NOA		: 5 mg/kg					
LOAE		: 20 mg/kg					
	cation Route	: Oral					
	sure time et Organs	: 3 - 24 Months : Liver					
	otoms	: decrease in appetite					
Space	ies	: Dog					
Spec	NOAEL : 2.5 mg/kg						
NOA							
NOA LOAE		: 2.5 mg/kg : 20 mg/kg : Oral					





## Enilconazole Liquid Formulation

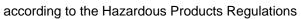
sion	Revision Date: 09/28/2024		S Number: 752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016
Exposure time Symptoms			12 Months Salivation, Vo	miting
Expo	EL	:	Mouse 12 mg/kg 140 mg/kg Oral 3 Months Liver	
Benz	yl alcohol:			
	EL cation Route sure time	:	Rat 1.072 mg/l inhalation (dus 28 Days OECD Test G	
Etha	nol:			
	EL	:	Rat 1,730 mg/kg 3,200 mg/kg Ingestion 90 Days	
-	ration toxicity lassified based on ava	ailable ir	nformation.	
Expe	rience with human e	xposur	е	
	ation contact contact	:	Remarks: May Remarks: May	
Com	ponents:			
Enilc	onazole:			
-	contact contact stion	:	Symptoms: pr Symptoms: Ey Symptoms: Na	

### Ecotoxicity

### Components:

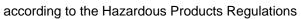
### Sodium bis(2-ethylhexyl)sulfosuccinate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 49 mg/l



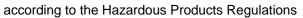


Version 6.2	Revision Date: 09/28/2024		0S Number: 6752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016
			Exposure time: 96 Method: Directive	67/548/EEC, Annex V, C.1.
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 6.6 mg/l 3 h
	Toxicity to algae/aquatic plants		ErC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 82.5 mg/l 2 h
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 22 mg/l 2 h
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	EC10 (Daphnia m Exposure time: 21 Method: OECD Te	
Toxid	city to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): 164 mg/l S h
Enilo	conazole:			
Toxid	city to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
			LC50 (Lepomis m Exposure time: 96 Method: OECD Te	
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Benz	zyl alcohol:			
	city to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h
	city to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 230 mg/l 3 h





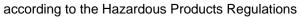
ersion 2	Revision Date: 09/28/2024		9S Number: 6752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016	
			Method: OECD T	est Guideline 202	
Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
			mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 310 2 h est Guideline 201	
aqua	city to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia ) Exposure time: 2 Method: OECD T		
Etha	inol:				
Toxi	city to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 14,200 mg/l 5 h	
	city to daphnia and other atic invertebrates	:	EC50 (Ceriodaph Exposure time: 44	nia dubia (water flea)): 5,012 mg/l 3 h	
Toxi plan	city to algae/aquatic ts	:	ErC50 (Chlorella Exposure time: 72	vulgaris (Fresh water algae)): 275 mg/l 2 h	
			EC10 (Chlorella v Exposure time: 72	rulgaris (Fresh water algae)): 11.5 mg/l 2 h	
Toxi icity)	city to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 10	atipes (Japanese medaka)): >= 79 mg/l 00 d	
aqua	city to daphnia and other atic invertebrates (Chron-	:	NOEC (Daphnia i Exposure time: 9	magna (Water flea)): 9.6 mg/l d	
	xicity) city to microorganisms	:	EC50 (Protozoa): Exposure time: 4		
Pers	sistence and degradabili	ity			
	ponents:	-			
Sod	ium bis(2-ethylhexyl)sul	fos	uccinate:		
Biod	egradability	:	Result: Readily bi Biodegradation: Exposure time: 28	91.2 %	
Enile	conazole:				
	egradability	:	Result: not rapidly Biodegradation: Exposure time: 10	50 %	





/ersion 5.2	Revision Date: 09/28/2024		DS Number: 06752-00021	Date of last issue: 06/07/2024 Date of first issue: 09/22/2016		
	<b>yl alcohol:</b> egradability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %		
Ethai	nol:					
Biode	Biodegradability		: Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d			
Bioa	ccumulative potential					
Com	ponents:					
Sodiu	um bis(2-ethylhexyl)sı	ulfos	succinate:			
	ion coefficient: n- ol/water	:	log Pow: 1.998 Remarks: Calcula	ation		
Enilc	onazole:					
	ion coefficient: n- ol/water	:	log Pow: 3.82			
Benz	yl alcohol:					
	ion coefficient: n- ol/water	:	log Pow: 1.05			
Ethai						
	ion coefficient: n- ol/water	:	log Pow: -0.35			
Mobi	lity in soil					
Com	ponents:					
Enilc	onazole:					
	bution among environ- al compartments	:	log Koc: 3.82			
Othe	r adverse effects					
No da	ata available					

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. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or





as unused product.
8.
BC Code
S.



## Enilconazole Liquid Formulation

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Marin Rema	e pollutant ırks	: yes(Enilconazo : Display "inhala with TDG 4.23	tion hazard" mark on package in accordance

#### 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**

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

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

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

ACGIH CA AB OEL		USA. ACGIH Threshold Limit Values (TLV) Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL CA QC OEL		Canada. British Columbia OEL Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / STEL CA AB OEL / TWA CA BC OEL / STEL CA QC OEL / STEV	:	Short-term exposure limit 8-hour Occupational exposure limit short-term exposure limit Short-term exposure value

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



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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 Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	09/28/2024 mm/dd/yyyy

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.

CA / Z8