

Version 7.2	Revision Date: 28.09.2024		S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016			
SECTION	1. IDENTIFICATION						
Produ	uct name	:	Enilconazole Lic	uid Formulation			
Manu	afacturer or supplier's	s deta	ils				
Com	Company		MSD	MSD			
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP				
Telep	Telephone		908-740-4000				
Emer	gency telephone	:	1-908-423-6000				
E-ma	E-mail address		EHSDATASTEWARD@msd.com				
Reco	mmended use of the	chem	ical and restricti	ons on use			
Recommended use Restrictions on use		:	Veterinary product Not applicable				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 3
Acute toxicity (Inhalation)	:	Category 4
Serious eye damage/eye irritation	:	Category 2A
Carcinogenicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver)
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements



Version 7.2	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016			
Haza	rd pictograms					
Signa	al Word	: Danger				
Hazard Statements		H301 Toxic if H319 Causes H332 Harmfu H351 Suspec H373 May ca or repeated e H401 Toxic to	serious eye irritation. I if inhaled. ted of causing cancer. use damage to organs (Liver) through prolonged xposure.			
Preca	autionary Statements	P202 Do not I and understor P210 Keep av and other igni P260 Do not I P264 Wash s P270 Do not o P271 Use onI P273 Avoid re	away from heat, hot surfaces, sparks, open flames hition sources. No smoking. breathe mist or vapors. skin thoroughly after handling. eat, drink or smoke when using this product. hly outdoors or in a well-ventilated area. release to the environment. protective gloves/ protective clothing/ eye protec-			
		POISON CEN P303 + P361 ly all contamin P304 + P340 and keep com doctor if you f P305 + P351 for several mi easy to do. Co P308 + P313 attention. P337 + P313 tention. P391 Collect	 + P338 IF IN EYES: Rinse cautiously with water nutes. Remove contact lenses, if present and ontinue rinsing. IF exposed or concerned: Get medical advice/ If eye irritation persists: Get medical advice/ at- 			
		Storage: P405 Store lo	cked up.			
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste			

SAFETY DATA SHEET



Enilconazole Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07.06.2024
7.2	28.09.2024	906827-00021	Date of first issue: 22.09.2016

Other hazards which do not result in classification

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sodium bis(2-ethylhexyl)sulfosuccinate	577-11-7	>= 30 -< 50
Enilconazole	35554-44-0	>= 10 -< 20
Benzyl alcohol	100-51-6	>= 5 -< 10
Ethanol#	64-17-5	>= 1 -< 5

Voluntarily-disclosed substance

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
If inhaled	:	advice. 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	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Gastrointestinal disturbance Toxic if swallowed. Causes serious eye irritation. Harmful if inhaled. Suspected of causing cancer. May cause damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure. 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



Versi 7.2	on	Revision Date: 28.09.2024		9S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016	
				Alcohol-resistant t Carbon dioxide (C 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.		
	Hazardous combustion prod- ucts		:	Carbon oxides Sulfur oxides Metal oxides		
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
		protective equipment ighters	:	In the event of fire, wear self-contained breathing apparatus Use personal protective equipment.		

SECTION 6. ACCIDENTAL RELEASE MEASURES

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	



Version 7.2	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
		employed in th determine whi Sections 13 ar	s material, as well as those materials and items ne cleanup of releases. You will need to ch regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures		ng measures under EXPOSURE PERSONAL PROTECTION section.
Local	/Total ventilation	: If sufficient ver ventilation.	ntilation is unavailable, use with local exhaust -proof electrical, ventilating and lighting equip-
	e on safe handling	: Do not breathe Do not swallow Do not get in e Avoid prolonge Wash skin tho Handle in acco practice, base assessment Non-sparking Keep containe Keep away fro other ignition s Take precautio Do not eat, dri Take care to p environment.	eyes. ed or repeated contact with skin. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure tools should be used. or tightly closed. Im heat, hot surfaces, sparks, open flames and sources. No smoking. onary measures against static discharges. nk or smoke when using this product. orevent spills, waste and minimize release to the
Cond	itions for safe storage	Store locked u Keep tightly cl Keep in a cool Store in accord	
Mater	rials to avoid	: Do not store w Strong oxidizir Self-reactive s Organic perox Flammable so Pyrophoric liqu Pyrophoric sol Self-heating su Substances ar flammable gas Explosives Gases	rith the following product types: ng agents ubstances and mixtures ides lids uids ids ubstances and mixtures nd mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



sion	Revision Date: 28.09.2024	SDS Number: 906827-00021		st issue: 07.06.2024 rst issue: 22.09.2016			
Comp	ponents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Enilco	onazole	35554-44-0	TŴA	0.3 mg/m3 (OEB 2)	Internal		
		Further inform					
Ethan	ol	64-17-5	CMP	1.000 ppm	AR OEL		
		Further inform		classifiable as a huma			
			STEL	1.000 ppm	ACGIH		
Engir	neering measures	technologies less quick co All engineerir design and o protect produ	to control airbo nnections). ng controls shou perated in acco cts, workers, au	controls and manufac rne concentrations (e. uld be implemented by ordance with GMP prin nd the environment. t require special conta	g., drip- / facility ciples to		
		Use explosion equipment.	Use explosion-proof electrical, ventilating and lighting equipment.				
Perso	onal protective equip	nent					
Fil	ratory protection ter type protection	exposure ass recommende	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type				
Ma	aterial	: Chemical-res	istant gloves				
Re	emarks			s flammable, which ma	ay impact		
Eye p	rotection	 the selection of hand protection. 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. 					
	and body protection ne measures	: If exposure to eye flushing s working place When using o Wash contam The effective engineering o appropriate d industrial hyg	systems and sa e. do not eat, drink ninated clothing operation of a controls, proper egowning and	ely during typical use, fety showers close to or smoke. before re-use. facility should include personal protective ed decontamination proce g, medical surveillance	the review of quipment, edures,		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color

SAFETY DATA SHEET



Version 7.2	Revision Date: 28.09.2024		S Number: 827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
Ode	or	:	musty	
	or Threshold		No data available	
рH			9,5	, ,
	Iting point/freezing point	:	No data available	
	al boiling point and boiling	-	No data available	
Fla	sh point	:	45 °C	
Eva	aporation rate	:	No data available	3
Fla	mmability (solid, gas)	:	Not applicable	
Fla	mmability (liquids)	:	Not applicable	
	per explosion limit / Upper nmability limit	:	No data available	
	ver explosion limit / Lower nmability limit	:	No data available)
Vap	oor pressure	:	No data available)
Rel	ative vapor density	:	No data available	
Rel	ative density	:	1,094	
	ubility(ies) Water solubility	:	soluble	
	tition coefficient: n-	:	No data available)
	anol/water oignition temperature	:	No data available	9
Dec	composition temperature	:	No data available	9
	cosity Viscosity, kinematic	:	No data available)
Exp	plosive properties	:	Not explosive	
Oxi	dizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mo	lecular weight	:	No data available)
	ticle characteristics ticle size	:	No data available	



Version 7.2	Revision Date: 28.09.2024		9S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016		
SECTIO	N 10. STABILITY AND RE	AC	TIVITY			
Che Pos	Reactivity Chemical stability Possibility of hazardous reac- tions		 Not classified as a reactivity hazard. Stable under normal conditions. Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents. 			
	nditions to avoid compatible materials	:	Heat, flames and Oxidizing agents Acids			
	ardous decomposition	:		ecomposition products are known.		
SECTIO	N 11. TOXICOLOGICAL I	NFC	ORMATION			
	rmation on likely routes of osure	:	Inhalation Skin contact Ingestion Eye contact			
Тох	ite toxicity ic if swallowed. mful if inhaled.					
	duct:					
Acu	te oral toxicity	:	LD50 (Rat): 192 -	309 mg/kg		
Acu	te inhalation toxicity	: LC50 (Rat): 3,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist		ĥ		
Acu	te dermal toxicity	:	LD50 (Rabbit): > 9	900 mg/kg		
<u>Cor</u>	nponents:					
Soc	lium bis(2-ethylhexyl)sul	fos	uccinate:			
Acu	te oral toxicity	:	LD50 (Rat): 3.080) mg/kg		
Acu	te dermal toxicity	:	LD50 (Rabbit): > \$	5.000 mg/kg		
	Iconazole: te oral toxicity	:	LD50 (Rat): 227 n Remarks: Based (1272/2008, Anne)	on harmonised classification in EU regulation		
			LD50 (Mouse): 39	90 - 620 mg/kg		
			LD50 (Dog): > 64	0 mg/kg		
Acu	te inhalation toxicity	:	LC50 (Rat): 1,84 Exposure time: 4 Test atmosphere: Remarks: Based	h		

SAFETY DATA SHEET



rsion	Revision Date: 28.09.2024	-	0S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016	
			1272/2008, Anne:	x VI	
Acute dermal toxicity		:	: LD50 (Rat): 4.200 - 4.800 mg/kg		
			LD50 (Rabbit): 4.2	200 mg/kg	
	e toxicity (other routes of inistration)	:	LD50 (Rat): 155 r Application Route		
Benz	zyl alcohol:				
Acute	e oral toxicity	:	LD50 (Rat): 1.200) mg/kg	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5,4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inh tion toxicity		
Etha	inol:				
Acute	e oral toxicity	:	LD50 (Rat): 10.47 Method: OECD T	′0 mg/kg est Guideline 401	
Acute	e inhalation toxicity	:	LC50 (Rat, male): Exposure time: 4 Test atmosphere:	h	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 15.800 mg/kg		
	corrosion/irritation	ble	information.		
Prod	luct:				
Spec Resu		:	Rabbit Mild skin irritation		
	ponents:				
	ium bis(2-ethylhexyl)sul	fos			
Spec Meth		÷	Rabbit OECD Test Guide	alian 404	
Resu		÷	Skin irritation		
Enilo	conazole:				
Spec		;	Rabbit		
		:	Mild skin irritation		
Resu	ult	•			
Resu					
Resu Benz	zyl alcohol:	:	Rabbit		
Resu	zyl alcohol: cies	:	Rabbit OECD Test Guide	eline 404	



rsion	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
Ethar	nol:		
Speci		: Rabbit	
Metho			Guideline 404
Resu	lt	: No skin irrita	tion
Serio	us eye damage/eye	irritation	
Cause	es serious eye irritatio	on.	
Prod	uct:		
Speci	es	: Rabbit	
Resu		: Moderate ey	ve irritation
Com	oonents:		
Sodiu	um bis(2-ethylhexyl)	sulfosuccinate:	
Speci		: Rabbit	
Resu			effects on the eye
Metho	bd	: OECD lest	Guideline 405
Enilc	onazole:		
Speci		: Rabbit	
Resu			effects on the eye
Rema	arks	: Based on ha 1272/2008, J	armonised classification in EU regulation Annex VI
Speci	es	: Rabbit	
Resu		: Moderate ey	e irritation
Rema	arks	: Based on ha 1272/2008, J	armonised classification in EU regulation Annex VI
Benz	yl alcohol:		
Speci	es	: Rabbit	
Resu			eyes, reversing within 21 days
Metho	bd	: OECD Test	Guideline 405
Ethar	nol:		
Speci		: Rabbit	
Resu			eyes, reversing within 21 days
Metho	bd	: OECD Test	Guideline 405
Resp	iratory or skin sensi	tization	
Skin	sensitization		
Not c	lassified based on ava	ailable information.	
-	iratory sensitization		
	lassified based on ava	allable information.	
Prod	uct:		

Product:

Species

: Guinea pig



rsion 2	Revision Date: 28.09.2024		S Number: 827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016			
Resul	Result		: Not a skin sensitizer.				
<u>Comp</u>	oonents:						
Sodiu	um bis(2-ethylhexyl)	sulfosu	ccinate:				
Test∃ Route Speci Resul	es of exposure es	:	Human repea Skin contact Humans negative	t insult patch test (HRIPT)			
Enilc	onazole:						
Test T Route Speci Resul	es of exposure es	:	Maximization Dermal Guinea pig equivocal	Test			
Route Speci Resul		:	Dermal Humans Not a skin ser	nsitizer.			
Benz	yl alcohol:						
Test T Route Speci Resul	es of exposure es	:	Human repea Skin contact Humans positive	t insult patch test (HRIPT)			
Asses	ssment		Probability or rate in human	evidence of low to moderate skin sensitizatio			
Ethar	nol:						
Test 7	Гуре es of exposure es	:	Mouse ear sw Skin contact Mouse negative	elling test (MEST)			
	cell mutagenicity lassified based on av	ailabla ir	oformation				
	oonents:	anadie II					
	um bis(2-ethylhexyl)	sulfosu	ccinate:				
	toxicity in vitro	:	Test Type: Ba	cterial reverse mutation assay (AMES) D Test Guideline 471 ve			
				rromosome aberration test in vitro D Test Guideline 473 ocal			

Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476



ersion .2	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
		Result: negative Remarks: Base	e d on data from similar materials
Enilco	onazole:		
Genot	toxicity in vitro	: Test Type: Bact Result: negative	terial reverse mutation assay (AMES) e
			omosomal aberration uman lymphocytes ə
		Test Type: gene Test system: Cł Result: negative	hinese hamster fibroblasts
		Test Type: unso Test system: ra Result: negative	
Genot	toxicity in vivo	: Test Type: Micr Species: Rat Application Rou Result: negative	ite: Oral
		Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Oral
		Test Type: Rod Species: Mouse Result: negative	
Benzy	yl alcohol:		
-	toxicity in vitro	: Test Type: Bact Result: negative	terial reverse mutation assay (AMES) e
Genot	toxicity in vivo	cytogenetic ass Species: Mouse	e ite: Intraperitoneal injection
Ethan	vol:		
	toxicity in vitro		terial reverse mutation assay (AMES) Test Guideline 471 e
			tro mammalian cell gene mutation test Test Guideline 476 e
		Test Type: Chro	omosome aberration test in vitro



rsion	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016				
		Result: negati	ve				
Genot	toxicity in vivo	cytogenetic as Species: Rat Application Ro	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Result: negative				
	nogenicity						
Suspe	ected of causing cance	er.					
Comp	oonents:						
Enilco	onazole:						
	cation Route sure time EL	: Rat : Oral : 2 Years : 40 mg/kg bod : negative	y weight				
Expos LOAE Resul	cation Route sure time L	: Mouse : Oral : 2 Years : 33 mg/kg bod : positive : Liver	y weight				
Expos NOAE LOAE Resul	ation Route sure time L L t t Organs	 Mouse oral (feed) 23 Months 8 mg/kg body 105 mg/kg bo positive Liver Based on hard 1272/2008, Au 	dy weight monised classification in EU regulation				
Carcir ment	nogenicity - Assess-	: Limited evider	nce of carcinogenicity in animal studies				
Benzy	/l alcohol:						
	cation Route sure time od	: Mouse : Ingestion : 103 weeks : OECD Test G : negative	uideline 451				
	oductive toxicity						
Not cl	assified based on avai	lable information.					

Sodium bis(2-ethylhexyl)sulfosuccinate:

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



ersion 2	Revision Date: 28.09.2024		9S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
			Application Route Result: negative	: Ingestion
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
Enilco	nazole:			
Effects	s on fertility	:	Result: Maternal t adverse effects of Remarks: Not cla	-
Effects	s on fetal development	:	Result: Reduced verse effects on the ternally toxic dose	: Oral oxicity: LOAEL: 80 mg/kg body weight fetal weight., Embryotoxic effects and ad- ne offspring were detected only at high ma-
			Result: Maternal 1 Postimplantation	: Oral oxicity: LOAEL: 10 mg/kg body weight oxicity observed., No teratogenic effects.,
Benzy	l alcohol:			
Effects	s on fertility	:	Species: Rat Application Route Result: negative	y/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
Ethan	ol:			
Effects	s on fertility	:	Test Type: Two-g Species: Mouse Application Route	eneration reproduction toxicity study : Ingestion



ersion 2	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
		Result: negat	ive
STO	Γ-single exposure		
	lassified based on av	vailable information.	
	Γ-repeated exposur		olonged or repeated exposure.
-		ans (Liver) infough pr	bioliged of repeated exposure.
Com	ponents:		
Enilc	onazole:		
Targe	et Organs	: Liver	
Asse	ssment	: May cause da exposure.	amage to organs through prolonged or repeate
Repe	ated dose toxicity		
Prod	uct:		
Spec	ies	: Rabbit	
NOAI		: 1 mg/kg	
	cation Route	: Dermal	
	sure time	: 21 d	
Symp	otoms	: No adverse e	ffects.
<u>Com</u>	ponents:		
Sodiu	um bis(2-ethylhexy)sulfosuccinate:	
Spec		; Rat	
NOAI		: 750 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 90 Days	
Enilc	onazole:		
Spec		: Rat	
NOAI	EL	: 5 mg/kg	
LOAE		: 20 mg/kg	
Appli	cation Route	: Oral	
Applie Expo	cation Route sure time	: Oral : 3 - 24 Months	
Applie Expo Targe	cation Route	: Oral	
Applie Expo Targe Symp	cation Route sure time et Organs otoms	: Oral : 3 - 24 Months : Liver : decrease in a	
Applie Expos Targe Symp Spec	cation Route sure time et Organs otoms ies	: Oral : 3 - 24 Months : Liver : decrease in a : Dog	
Applie Expo Targe Symp	cation Route sure time et Organs otoms ies EL	: Oral : 3 - 24 Months : Liver : decrease in a	
Applie Expos Targe Symp Spec NOAI LOAE Applie	cation Route sure time et Organs otoms ies EL EL cation Route	: Oral : 3 - 24 Months : Liver : decrease in a : Dog : 2,5 mg/kg : 20 mg/kg : Oral	
Applie Expos Targe Symp Spec NOAI LOAE Applie Expos	cation Route sure time et Organs otoms ies EL EL cation Route sure time	 Oral 3 - 24 Months Liver decrease in a Dog 2,5 mg/kg 20 mg/kg Oral 12 Months 	ppetite
Applie Expos Targe Symp Spec NOAI LOAE Applie	cation Route sure time et Organs otoms ies EL EL cation Route sure time	: Oral : 3 - 24 Months : Liver : decrease in a : Dog : 2,5 mg/kg : 20 mg/kg : Oral	ppetite
Applia Expos Targe Symp Spec NOAI LOAE Applia Expos Symp	cation Route sure time et Organs otoms ies EL EL cation Route sure time otoms	 Oral 3 - 24 Months Liver decrease in a Dog 2,5 mg/kg 20 mg/kg Oral 12 Months Salivation, Volume 	ppetite
Applie Expos Targe Symp Spec NOAI LOAE Applie Expos	cation Route sure time et Organs otoms ies EL EL cation Route sure time otoms	 Oral 3 - 24 Months Liver decrease in a Dog 2,5 mg/kg 20 mg/kg Oral 12 Months 	ppetite
Applie Expos Targe Symp Spec NOAI LOAE Symp Spec NOAI LOAE	cation Route sure time et Organs otoms EL EL cation Route sure time otoms EL EL	 Oral 3 - 24 Months Liver decrease in a Dog 2,5 mg/kg 20 mg/kg Oral 12 Months Salivation, Vo Mouse 12 mg/kg 140 mg/kg 	ppetite
Applie Expose Symp Speci NOAI LOAE Applie Symp Speci NOAI LOAE Applie	cation Route sure time et Organs otoms EL EL cation Route sure time otoms	 Oral 3 - 24 Months Liver decrease in a Dog 2,5 mg/kg 20 mg/kg Oral 12 Months Salivation, Vo Mouse 12 mg/kg 	ppetite



Version 7.2	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016				
Targ	get Organs	: Liver					
Spe		: Rat					
	lication Route osure time	: inhalation (dus : 28 Days	 1,072 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412 				
	anol:						
	\EL	: Rat : 1.730 mg/kg : 3.200 mg/kg : Ingestion : 90 Days					
-	iration toxicity classified based on ava	ilable information.					
Ехр	erience with human e	xposure					
Inha Skin Eye	duct: lation contact contact estion	: Remarks: May : Remarks: May					
<u>Con</u>	nponents:						
Enil	conazole:						
Eye	contact contact estion	: Symptoms: pro : Symptoms: Ey : Symptoms: Na					

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sodium bis(2-ethylhexyl)sulfosuccinate:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 49 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6,6 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 82,5 mg/l Exposure time: 72 h



ersion 2	Revision Date: 28.09.2024		9S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
			EC10 (Desmodes Exposure time: 72	mus subspicatus (green algae)): 22 mg/l ? h
	y to daphnia and other invertebrates (Chron- ity)	:	EC10 (Daphnia m Exposure time: 21 Method: OECD Te	
Toxicity	y to microorganisms	:	EC50 (Pseudomo Exposure time: 16	nas putida): 164 mg/l 5 h
Enilco	nazole:			
	y to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
			LC50 (Lepomis m Exposure time: 96 Method: OECD Te	
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
M-Fact toxicity	or (Chronic aquatic)	:	10	
Benzyl	l alcohol:			
Toxicity	y to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l b h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l	chneriella subcapitata (green algae)): 310



Version 7.2	Revision Date: 28.09.2024		9S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016		
			Exposure time: 72 Method: OECD Te			
	ity to daphnia and other tic invertebrates (Chron- icity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD To			
Etha	nol:					
Toxic	ity to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 14.200 mg/l S h		
	ity to daphnia and other tic invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 5.012 mg/l 3 h		
Toxic plants	ity to algae/aquatic s	:	ErC50 (Chlorella) Exposure time: 72	vulgaris (Fresh water algae)): 275 mg/l 2 h		
			EC10 (Chlorella v Exposure time: 72	ulgaris (Fresh water algae)): 11,5 mg/l 2 h		
Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 10	tipes (Japanese medaka)): >= 79 mg/l)0 d		
aqua	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 9	nagna (Water flea)): 9,6 mg/l d		
ic tox Toxic	icity) ity to microorganisms	:	EC50 (Protozoa): 5.800 mg/l Exposure time: 4 h			
Persi	istence and degradabili	ity				
Com	ponents:					
Sodi	um bis(2-ethylhexyl)su	lfos	uccinate:			
Biode	egradability	:	Result: Readily bi Biodegradation: § Exposure time: 28	91,2 %		
Enilc	onazole:					
Biode	egradability	:	Result: not rapidly Biodegradation: 5 Exposure time: 16	50 %		
Benz	yl alcohol:					
	egradability	:	Result: Readily bi Biodegradation: S Exposure time: 14	92 - 96 %		
Etha	nol:					
	egradability	:	Result: Readily bi Biodegradation: 8 Exposure time: 20	34 %		



rsion 2	Revision Date: 28.09.2024		0S Number: 6827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016
Bioad	ccumulative potential			
Com	ponents:			
Sodiu	um bis(2-ethylhexyl)sı	Ilfos	uccinate:	
	ion coefficient: n- ol/water	:	log Pow: 1,998 Remarks: Calcu	lation
Enilc	onazole:			
	ion coefficient: n- ol/water	:	log Pow: 3,82	
Benz	yl alcohol:			
	ion coefficient: n- ol/water	:	log Pow: 1,05	
Ethar	nol:			
	ion coefficient: n- ol/water	:	log Pow: -0,35	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Enilc	onazole:			
	bution among environ- al compartments	:	log Koc: 3,82	
	r adverse effects 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 handling site for recycling or disposal. Empty containers retain residue and can be dange Do not pressurize, cut, weld, braze, solder, drill, g expose such containers to heat, flame, sparks, or sources of ignition. They may explode and cause death. If not otherwise specified: Dispose of as unused p	erous. rind, or other injury and/or

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 1992
Proper shipping name	:	FLAMMABLE LIQUID, TOXIC, N.O.S.
		(Ethanol, 1-[2-(allyloxy)-2-(2,4-dichlorophenyl)ethyl]-1H-
		imidazole)



Version 7.2	Revision Date: 28.09.2024	SDS Number: 906827-00021	Date of last issue: 07.06.2024 Date of first issue: 22.09.2016	
Packi Label	diary risk ng group	: 3 : 6.1 : III : 3 (6.1) : yes		
Class Subsi Packii Label Packii aircra	diary risk ng group s ng instruction (cargo ft) ng instruction (passen-	(Ethanol, Enild : 3 : 6.1 : III	Flammable liquid, toxic, n.o.s. (Ethanol, Enilconazole) 3 6.1 III Flammable Liquids, Toxic 366	
UN nu Prope Class Subsi Packin Labels EmS	diary risk ng group s	 : UN 1992 : FLAMMABLE I (Ethanol, Enilor) : 3 : 6.1 : III : 3 (6.1) : F-E, S-D : yes 	LIQUID, TOXIC, N.O.S. onazole)	

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

Not applicable for product as supplied.

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 environn mixture	nental regulations/legisl	lation specific for the substance or		
Argentina. Carcinogenic Subs Registry.	: Not applicable			
Control of precursors and essential chemicals for the : Ethanol preparation of drugs.				
The ingredients of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			
IECSC	: not determined			



Version	Revision Date:	SDS Number:	Date of last issue: 07.06.2024
7.2	28.09.2024	906827-00021	Date of first issue: 22.09.2016

SECTION 16. OTHER INFORMATION

Revision Date	: 28.09.2024
Date format	: dd.mm.yyyy

Further information

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/

Full text of other abbreviations

ACGIH AR OEL	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / STEL AR OEL / CMP	Short-term exposure limit TLV (Threshold Limit 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 Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided



Version	Revision Date:	SDS Number:	Date of last issue: 07.06.2024
7.2	28.09.2024	906827-00021	Date of first issue: 22.09.2016

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.

AR / Z8