



Version 7.0	Revision Date: 28.09.2024		S Number: 5464-00020	Date of last issue: 30.09.2023 Date of first issue: 28.06.2016		
SECTION	1. IDENTIFICATION					
Produ	uct identifier	:	Enilconazole Sm	noke Formulation		
Manu	facturer or supplier's	s detai	ls			
Comp	bany	:	MSD			
Addre	Address		Rua Coronel Bento Soares, 530 Cruzeiro - Sao Paulo - Brazil CEP 12730-340			
Telep	hone	:	908-740-4000			
Emer	gency telephone	:	1-908-423-6000			
E-ma	il address	:	EHSDATASTEW	/ARD@msd.com		
Reco	mmended use of the	chem	ical and restriction	ons on use		
	mmended use ictions on use	:	Veterinary produ Not applicable	ict		

### SECTION 2. HAZARDS IDENTIFICATION

<b>GHS</b> Classification	in accordance with	ABNT NBR 14725 Standard
	III accordance with	ADINI INDIA 14725 Statiuaru

	Oxidizing solids	:	Category 1
	Acute toxicity (Oral)	:	Category 5
	Eye irritation	:	Category 2A
	Carcinogenicity	:	Category 2
	Specific target organ toxicity - repeated exposure	:	Category 2 (Liver)
I	Short-term (acute) aquatic hazard	:	Category 3
	Long-term (chronic) aquatic hazard	:	Category 1

#### GHS label elements in accordance with ABNT NBR 14725 Standard

Hazard pictograms	
Signal Word	: Danger



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Hazard Statements		H303 May be h H319 Causes s H351 Suspecte H373 May cau or repeated ex H402 Harmful	<ul> <li>H271 May cause fire or explosion; strong oxidizer.</li> <li>H303 May be harmful if swallowed.</li> <li>H319 Causes serious eye irritation.</li> <li>H351 Suspected of causing cancer.</li> <li>H373 May cause damage to organs (Liver) through prolonged or repeated exposure.</li> <li>H402 Harmful to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>				
Preca	utionary Statements	Prevention:					
		P201 Obtain sp P210 Keep aw and other igniti P220 Keep aw als. P260 Do not b P264 Wash sk P273 Avoid rel P280 Wear pro- tion/ face prote	in thoroughly after handling. ease to the environment. itective gloves/ protective clothing/ eye protec-				
		Response:					
		tor if you feel u P305 + P351 + for several min easy to do. Co P306 + P360 II nated clothing clothes. P308 + P313 II attention. P337 + P313 II tention. P371 + P380 + Evacuate area P391 Collect s	<ul> <li>P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and ntinue rinsing.</li> <li>ON CLOTHING: rinse immediately contamiand skin with plenty of water before removing</li> <li>exposed or concerned: Get medical advice/</li> <li>eye irritation persists: Get medical advice/ at-</li> <li>P375 In case of major fire and large quantities:</li> <li>Fight fire remotely due to the risk of explosion.</li> </ul>				
		Storage:	kod up				
		P405 Store loc P420 Store se					
		Disposal:					
		P501 Dispose disposal plant.	of contents/ container to an approved waste				

Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :

: Mixture



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Comp	ponents				
Chem	nical name	CAS-No.	Classification	Concentration (% w/w)	
Talc		14807-96-6		>= 50 -< 70	
Enilco	onazole	35554-44-0	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 4 Acute Tox. (Dermal), 5 Eye Dam., 1 Carc., 2 STOT RE, (Liver), 2 Aquatic Acute, 2 Aquatic Chronic, 1	>= 10 -< 20	
Potas	sium chlorate	3811-04-9	Ox. Sol., 1 Acute Tox. (Oral), 3 Aquatic Acute, 3	>= 10 -< 20	

### 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	:	
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	:	May be harmful if swallowed. Causes serious eye irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying of the skin.
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



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				Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire	:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Metal oxides	nds
	Specific ods	c extinguishing meth-	:	cumstances and t Fight fire remotely Use water spray t	measures that are appropriate to local cir- he surrounding environment. due to the risk of explosion. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:		e, wear self-contained breathing apparatus. rective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Evacuate personnel to safe areas. Only trained personnel should re-enter the area. 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. 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Flush with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and



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SECTION	7. HANDLING AND ST	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.
	nical measures	: Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding
Local	/Total ventilation	<ul> <li>and bonding, or inert atmospheres.</li> <li>Use only with adequate ventilation.</li> <li>If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.</li> </ul>
Advic	e on safe handling	<ul> <li>Do not breathe dust.</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 safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Take precautionary measures against static discharges.</li> <li>Keep away from combustible material.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Hygie	ene measures	<ul> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the</li> </ul>
Cond	litions for safe storage	<ul> <li>use of administrative controls.</li> <li>Keep in properly labeled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Keep away from direct sunlight. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.</li> </ul>
Mate	rials to avoid	<ul> <li>Store in original container.</li> <li>Do not store with the following product types: Self-reactive substances and mixtures Organic peroxides</li> </ul>



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		Substances ar flammable gas Aerosol cans a Explosives Gases Very acutely to Acutely toxic s	lids lids lids libstances and mixtures ad mixtures which in contact with water emit les

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Talc	14807-96-6	TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH		
Enilconazole	35554-44-0	TWA	0.3 mg/m3 (OEB 2)	Internal		
	Further inform	ation: Skin				
<b>Engineering measures</b> : Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.				facility		
Personal protective equipme	nt					
Respiratory protection	exposure ass	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.				
Filter type Hand protection		Particulates type				
Material	: Chemical-res	Chemical-resistant gloves				
Remarks		Take note that the product is flammable, which may impact the selection of hand protection.				
Eye protection	: Wear safety of If the work en mists or aeros Wear a faces potential for of aerosols.	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.				
Skin and body protection	: Work uniform	Work uniform or laboratory coat.				

### Ingredients with workplace control parameters

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SECTION	9. PHYSICAL AND CHI	EMIC		6
Phys	ical state	:	powder	
Color	-	:	Grey-brown	
Odor		:	No data available	9
Odor	Threshold	:	No data available	9
pН		:	No data available	9
Melti	ng point/freezing point	:	No data available	9
Initial range	l boiling point and boiling e	:	No data available	9
Flash	n point	:	No data available	9
Evap	oration rate	:	No data available	9
Flam	mability (solid, gas)	:	May form explosi handling or other	ive dust-air mixture during processing, means.
Flam	mability (liquids)	:	No data available	9
	er explosion limit / Upper nability limit	:	No data available	9
	er explosion limit / Lower nability limit	:	No data available	9
Vapo	r pressure	:	No data available	9
Relat	ive vapor density	:	No data available	9
Relat	tive density	:	No data available	9
Dens	ity	:	No data available	9
	bility(ies) /ater solubility	:	No data available	9
	tion coefficient: n- nol/water	:	No data available	9
	gnition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	2
Visco Vi	osity scosity, kinematic	:	No data available	
Explo	osive properties	:	Not explosive	



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	Oxidiziı	ng properties	:	The substance o category 1.	r mixture is classified as oxidizing with the
	Molecu	lar weight	:	No data available	)
	Particle characteristics Particle size		:	No data available	3
SEC	TION 1	0. STABILITY AND RE	EAC	ΤΙVITY	
		rity cal stability lity of hazardous reac-	:	Stable under nor May form explosi handling or other Exposure to meta cause a violent re	ve dust-air mixture during processing,
	Conditions to avoid		:	Heat, flames and Avoid dust forma	•
	Incompatible materials		:	Accelerators, stro	ong acids and bases, heavy metals and s, reducing agents rials
	Hazardous decomposition products		:	No hazardous de	composition products are known.
SEC	ECTION 11. TOXICOLOGICAL		NFC	RMATION	
	Informa exposu	ation on likely routes of Ire	:	Inhalation Skin contact Ingestion Eye contact	
		<b>toxicity</b> harmful if swallowed.			
	Produc	<u>st:</u>			
	Acute o	oral toxicity	:	LD50 (Rat): 2.100 - 2.800 mg/kg	
	Acute i	nhalation toxicity	:	LC0 (Rat): 10,73 Test atmosphere: Remarks: No mor	
	Acute o	dermal toxicity	:	LD50 (Rat): > 2.0	00 mg/kg

LD50 (Rabbit): > 0.6 ml/kg

### Components:

Talc:	
Acute oral toxicity	: LD50 (Rat): > 5.000 mg/kg Remarks: Based on data from similar materials

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## **Enilconazole Smoke Formulation**

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	onazole: e oral toxicity	:		on harmonised classification in EU regulation
			1272/2008, Anne> LD50 (Mouse): 39	90 - 620 mg/kg
Acute	e inhalation toxicity	:	LD50 (Dog): > 640 LC50 (Rat): 1,84 -	
/ louie			Exposure time: 4 Test atmosphere:	h dust/mist on harmonised classification in EU regulatio
Acute	e dermal toxicity	:	LD50 (Rat): 4.200	) - 4.800 mg/kg
			LD50 (Rabbit): 4.2	200 mg/kg
	e toxicity (other routes of histration)	:	LD50 (Rat): 155 n Application Route	
Potas	ssium chlorate:			
Acute	e oral toxicity	:	Acute toxicity estine Method: Expert ju	mate (Humans): 100 mg/kg dgment
Acute	inhalation toxicity	:	LC50 (Rat): > 5,1 Exposure time: 4 Test atmosphere: Method: OECD Te Assessment: The tion toxicity	h dust/mist
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Assessment: The toxicity	
-	corrosion/irritation lassified based on availa	hle	information	
Prod		DIC		
<u> </u>				

Species	:	Rabbit
Result	:	No skin irritation

#### **Components:**

Talc:		
Species Result	:	Rabbit
Result	:	No skin irritation

### Enilconazole:



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Speci Resul		: Rabbit : Mild skin irrita	tion		
<b>Potassium chlorate:</b> Species Result Remarks			: Rabbit : No skin irritation : Based on data from similar materials		
	es		irritation		
	oonents:				
Speci Resul		: Rabbit : No eye irritatio	on		
Enilco Speci Resul Rema	t		fects on the eye monised classification in EU regulation nnex VI		
Speci Resul Rema	t	: Rabbit : Moderate eye : Based on han 1272/2008, Ai	monised classification in EU regulation		
Potas Speci Resul Metho	t	: Rabbit : No eye irritatio : OECD Test G			
Resp	iratory or skin sensiti	zation			
	sensitization assified based on avail	able information.			
-	iratory sensitization assified based on avail	able information.			
<u>Produ</u>	<u>uct:</u>				

	Species Result		Guinea pig Not a skin sensitizer.
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<u>Comp</u>	onents:		
Talc:			
	s of exposure	: Skin contact	
Specie		: Humans	
Result		: negative	
Enilco	nazole:		
Test Ty		: Maximization	Test
	s of exposure	: Dermal	
Specie		: Guinea pig	
Result		: equivocal	
	s of exposure	: Dermal	
Specie		: Humans	
Result		: Not a skin ser	nsitizer.
Potass	sium chlorate:		
Test Ty	уре	: Maximization	Test
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Method		: OECD Test G	uideline 406
Result Remar		: negative	a from similar materials
Germ	cell mutagenicity		
Not cla	assified based on av	ailable information.	
Not cla <u>Comp</u> e		ailable information.	
Not cla <u>Compo</u> Talc:	assified based on av onents:		VA damage and repair, unscheduled DNA svr
Not cla <u>Compo</u> Talc:	assified based on av	: Test Type: DI	malian cells (in vitro)
Not cla <u>Compo</u> Talc: Genoto	assified based on av onents:	: Test Type: DI thesis in mam Result: negati	ve
Not cla <u>Compo</u> Talc: Genoto	assified based on av onents: oxicity in vitro	: Test Type: DI thesis in mam Result: negati	malian cells (in vitro)
Not cla <u>Compo</u> Talc: Genoto	assified based on av onents: oxicity in vitro	: Test Type: Di thesis in mam Result: negati : Test Type: Ch Species: Rat	Imalian cells (in vitro) ive nromosome aberration test in vitro pute: Ingestion
Not cla <u>Compo</u> Talc: Genoto	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: DI thesis in mam Result: negati</li> <li>Test Type: Ch Species: Rat Application Re</li> </ul>	Imalian cells (in vitro) ive nromosome aberration test in vitro pute: Ingestion
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Ditthesis in mam Result: negation</li> <li>Test Type: Ch Species: Rat Application Ro Result: negation</li> </ul>	imalian cells (in vitro) ive nromosome aberration test in vitro oute: Ingestion ive
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Ditthesis in mam Result: negation</li> <li>Test Type: Ch Species: Rat Application Ro Result: negation</li> </ul>	amalian cells (in vitro) ive nromosome aberration test in vitro oute: Ingestion ive acterial reverse mutation assay (AMES)
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Difference in mamily thesis in mamily result: negation</li> <li>Test Type: Chest Species: Rat Application Result: negation</li> <li>Test Type: Bar Result: negation</li> </ul>	amalian cells (in vitro) ive nromosome aberration test in vitro oute: Ingestion ive acterial reverse mutation assay (AMES) ive
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Diffusion mamiges and the sis in mamiges and the sis in mamiges and the sis in mamiges and the sis type: Characteristic structures and the sist type: Characterist type: Characteri</li></ul>	Imalian cells (in vitro) Ive nromosome aberration test in vitro pute: Ingestion Ive acterial reverse mutation assay (AMES) Ive nromosomal aberration
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Diffusion mamiges and the sis in mamiges and the sis in mamiges and the sis in mamiges and the sis type: Characteristic structures and the sist type: Characterist type: Characteri</li></ul>	Amalian cells (in vitro) ve nromosome aberration test in vitro pute: Ingestion ve acterial reverse mutation assay (AMES) ve nromosomal aberration Human lymphocytes
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Difference</li> <li>Test Type: Check</li> <li>Test Type: Check</li> <li>Species: Rate</li> <li>Application Result: negation</li> <li>Test Type: Back</li> <li>Result: negation</li> <li>Test Type: Check</li> <li>Test Type:</li></ul>	amalian cells (in vitro) ive nromosome aberration test in vitro pute: Ingestion ive acterial reverse mutation assay (AMES) ive nromosomal aberration Human lymphocytes ive
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Difference in thesis in mamine Result: negation Result: negation Result: negation Result: negation</li> <li>Test Type: Bar Result: negation</li> <li>Test Type: Cir Test Type: Cir Test system: Result: negation</li> <li>Result: negati</li></ul>	Inverse mutation assay (AMES) Aromosomal aberration Human lymphocytes we are mutation test
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Difference in thesis in maming Result: negation Result: negation Result: negation Result: negation</li> <li>Test Type: Bar Result: negation</li> <li>Test Type: Chr Test system: Result: negation</li> <li>Result: negation</li> <li>Res</li></ul>	Inve Inve
Not cla <u>Compo</u> Talc: Genoto Genoto Enilco	assified based on av onents: oxicity in vitro oxicity in vivo	<ul> <li>Test Type: Difference in thesis in mamine Result: negation Result: negation Result: negation Result: negation</li> <li>Test Type: Bar Result: negation</li> <li>Test Type: Cir Test Type: Cir Test system: Result: negation</li> <li>Result: negati</li></ul>	Inve Incomosome aberration test in vitro Dute: Ingestion Ive Incterial reverse mutation assay (AMES) Ive Incomosomal aberration Human lymphocytes Ive Ine mutation test Chinese hamster fibroblasts



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		Test Type: uns Test system: r Result: negativ	
Gen	otoxicity in vivo	: Test Type: Mic Species: Rat Application Ro Result: negativ	ute: Oral
		Test Type: Mic Species: Mous Application Ro Result: negativ	e ute: Oral
		Test Type: Ro Species: Mous Result: negativ	
II Pota	assium chlorate:		
	otoxicity in vitro		cterial reverse mutation assay (AMES) ) Test Guideline 471 /e
		Method: OECI Result: negative	ritro mammalian cell gene mutation test ) Test Guideline 476 re ed on data from similar materials
		thesis in mam Method: OECI Result: negativ	A damage and repair, unscheduled DNA syn- nalian cells (in vitro) ) Test Guideline 482 re ed on data from similar materials
Gen	otoxicity in vivo	cytogenetic as Species: Mous Application Ro Method: OECI Result: negativ	e ute: Ingestion ) Test Guideline 474
	<b>cinogenicity</b> pected of causing cancer		
	nponents:		
Talo			
Spe App	cies lication Route osure time	: Mouse : inhalation (dus : 2 Years : negative	t/mist/fume)



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Enilco	nazole:			
	ation Route ure time L	: : : : : : : : : : : : : : : : : : : :	Rat Oral 2 Years 40 mg/kg body we negative	eight
Exposi LOAEL Result	ation Route ure time -	:	Mouse Oral 2 Years 33 mg/kg body we positive Liver	eight
Expose NOAE LOAEL Result	ation Route ure time L - Organs		Mouse oral (feed) 23 Months 8 mg/kg body wei 105 mg/kg body w positive Liver Based on harmon 1272/2008, Annes	veight ised classification in EU regulation
Carcin ment	ogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies
Potass	sium chlorate:			
Exposi Result Remar	ation Route ure time	:	Rat Ingestion 106 weeks negative Based on data fro	om similar materials
	Not classified based on availa		information.	
Comp	onents:			
Talc: Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	ro-fetal development : Ingestion
Enilco	nazole:			
	s on fertility	:	Result: Maternal t adverse effects of Remarks: Not cla	

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Effec	ts on fetal development	:	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 80 mg/kg body weight Result: Reduced fetal weight., Embryotoxic effects and ad- verse effects on the offspring were detected only at high ma- ternally toxic doses Remarks: The effects were seen only at maternally toxic dos- es.
			Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Maternal toxicity observed., No teratogenic effects., Postimplantation loss. Remarks: The effects were seen only at maternally toxic dos- es.
Pota	ssium chlorate:		
Effec	ts on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials
Effec	ts on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
II STO <sup>1</sup>	T-single exposure		
Not c	classified based on availa	ble	information.
	T-repeated exposure		
-	cause damage to organs ponents:		ver) through prolonged or repeated exposure.
	conazole:		
	et Organs ssment	:	Liver May cause damage to organs through prolonged or repeated exposure.
Asse			
	eated dose toxicity		
 Repe	-		
Repe <u>Com</u>	eated dose toxicity ponents: conazole:		



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Expos	cation Route sure time t Organs	: 20 mg/kg : Oral : 3 - 24 Montl : Liver : decrease in	
	EL EL cation Route sure time	: Dog : 2,5 mg/kg : 20 mg/kg : Oral : 12 Months : Salivation, \	'omiting
Expos	EL	: Mouse : 12 mg/kg : 140 mg/kg : Oral : 3 Months : Liver	
Speci NOAE Applic	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on da	ta from similar materials
Not cl Exper Comr Enilco Skin c	ation toxicity assified based on avai rience with human ex conents: contact contact ontact tion	posure : Symptoms:	pruritis, skin rash, Skin irritation Eye irritation Nausea
	12. ECOLOGICAL INI	FORMATION	
	oxicity oonents:		
Talc:	ty to fish	: LC50 (Brach Exposure tir	nydanio rerio (zebrafish)): > 100.000 mg/l ne: 24 h
	onazole: ty to fish	Exposure tir	rhynchus mykiss (rainbow trout)): 1,48 mg/l ne: 96 h CD Test Guideline 203



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			Exposure time: 9	nacrochirus (Bluegill sunfish)): 3,99 mg/l 6 h est Guideline 203		
	city to daphnia and other tic invertebrates	:	Exposure time: 48	nagna (Water flea)): 3,54 mg/l 3 h est Guideline 202		
Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green alga mg/l Exposure time: 72 h Method: OECD Test Guideline 201			
			NOEC (Pseudoki mg/l Exposure time: 72 Method: OECD T			
aqua	city to daphnia and other tic invertebrates (Chron- cicity)	:	NOEC (Daphnia i Exposure time: 2 Method: OECD T			
M-Factor (Chronic aquatic toxicity)		:	10			
Pota	ssium chlorate:					
Toxic	city to fish	:	Exposure time: 9	thus mykiss (rainbow trout)): > 100 mg/l 6 h on data from similar materials		
	kicity to daphnia and other uatic invertebrates		Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h on data from similar materials		
	Toxicity to algae/aquatic plants		Exposure time: 7 Method: OECD T			
			Exposure time: 7 Method: OECD T			
Toxic icity)	city to fish (Chronic tox-	:	Exposure time: 30 Method: OECD T	io (zebra fish)): > 1 mg/l 5 d est Guideline 210 on data from similar materials		
aqua	city to daphnia and other tic invertebrates (Chron- kicity)	:	Exposure time: 2 Method: OECD T			



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Toxici	Toxicity to microorganisms			
Persi	stence and degradabi	lity		
Comp	oonents:			
	<b>onazole:</b> gradability	:	Result: not rapidl Biodegradation: Exposure time: 1	50 %
Bioad	cumulative potential			
Comp	oonents:			
Partiti octan	onazole: on coefficient: n- ol/water	:	log Pow: 3,82	
Mobil	lity in soil			
Comp	oonents:			
Distrik	onazole: oution among environ- al compartments	:	log Koc: 3,82	
	r <b>adverse effects</b> ata available			
	13. DISPOSAL CONSI	DEF	RATIONS	

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

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

### International Regulations

<b>UNRTDG</b> UN number Proper shipping name Class Packing group	:	UN 1485 POTASSIUM CHLORATE MIXTURE 5.1 II
Packing group Labels	:	
Environmentally hazardous	:	no

#### IATA-DGR



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Prop Class Pack Labe Pack aircra Pack	ing group ls ing instruction (cargo		UN 1485 Potassium chlora 5.1 II Oxidizer 562 558	te Mixture
UN n Prop Class Pack Labe EmS	ing group		UN 1485 POTASSIUM CHI (Enilconazole) 5.1 II 5.1 F-H, S-Q yes	LORATE MIXTURE

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

Not applicable for product as supplied.

### **Domestic regulation**

UN number Proper shipping name	-	UN 1485 POTASSIUM CHLORATE, MIXTURE
Class		5.1
Packing group	÷	
Labels	-	5.1
Hazard Identification Number	:	50

#### Special precautions for user

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

### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture						
National List of Carcinogenic Agents for Humans - : Not applicable (LINACH)						
Brazil. List of chemicals controlled by the Federal : Not applicable Police						
The ingredients of this product are reported in the following inventories:						
AICS	: not determined					
DSL	: not determined					
IECSC	: not determined					



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

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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/

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

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

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



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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.

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