

Version 3.0	Revision Date: 30.09.2023		9S Number: 42485-00007	Date of last issue: 04.04.2023 Date of first issue: 19.03.2021	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	Oxfendazole / O	xyclozanide Formulation	
Manu	facturer or supplier's	s deta	ils		
Comp	bany	:	MSD		
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	Telephone		908-740-4000		
Emer	Emergency telephone		1-908-423-6000		
E-ma	E-mail address		EHSDATASTEWARD@msd.com		
Reco	mmended use of the				
	Recommended use : Restrictions on use :		Veterinary medio Not applicable	cine	

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

GHS Classification Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver, Testis, Brain)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360FD May damage fertility. May damage the unborn child. H371 May cause damage to organs (Central nervous system) if swallowed.



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		through prolon	se damage to organs (Liver, Testis, Brain) ged or repeated exposure. ic to aquatic life with long lasting effects.
Preca	utionary Statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid re	reathe dust. in thoroughly after handling. at, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec-
		<b>Response:</b> P308 + P311 I CENTER/ doc P391 Collect s	
		<b>Storage:</b> P405 Store loc	sked up.
		<b>Disposal:</b> 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

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Oxyclozanide	2277-92-1	>= 30 -< 50
oxfendazole	53716-50-0	>= 20 -< 25
Starch, oxidized	65996-62-5	>= 10 -< 20
Magnesium stearate	557-04-0	>= 1 -< 5

#### SECTION 4. FIRST AID MEASURES

General advice	ac W	the case of accident or if you feel unwell, seek medical dvice immediately. /hen symptoms persist or in all cases of doubt seek medical dvice.
If inhaled		inhaled, remove to fresh air. et medical attention.
In case of skin contact		case of contact, immediately flush skin with soap and plenty



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		Re Ge	water. emove contamir et medical atten ash clothing be	
In cas	e of eye contact	Th : Ifi	oroughly clean n eyes, rinse w	shoes before reuse. ell with water.
lf swa	llowed	: If s Ge Rii	swallowed, DO et medical atten nse mouth thore	oughly with water.
	important symptoms ffects, both acute and ed	: Ma Ma Ma ex Co	ay damage ferti ay cause damag ay cause damag posure.	ng by mouth to an unconscious person. lity. May damage the unborn child. ge to organs if swallowed. ge to organs through prolonged or repeated can cause mechanical irritation or drying of
Protec	ction of first-aiders	Du : Fir an	ist contact with st Aid responde d use the recor	the eyes can lead to mechanical irritation. ers should pay attention to self-protection, nmended personal protective equipment of for exposure exists (see section 8).
Notes	to physician			cally and supportively.
SECTION	5. FIRE-FIGHTING ME	SURE	S	
Suitat	ble extinguishing media	Alo Ca	ater spray cohol-resistant f arbon dioxide (C y chemical	
Unsui media	table extinguishing		one known.	
Specir fightin	fic hazards during fire Ig	co po	ncentrations, ai tential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. pustion products may be a hazard to health.
Hazar ucts	dous combustion prod-	Ch Nit Me	arbon oxides Ilorine compour trogen oxides (I etal oxides kides of phosph	NOx)
Specir ods	fic extinguishing meth-	cu Us	mstances and t se water spray t emove undamag	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
	al protective equipment e-fighters	: In		e, wear self-contained breathing apparatus. tective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal



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gency	procedures		protective equipm	ent recommendations (see section 8).
Environmental precautions :		:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up	:	container for disp Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the Local or national disposal of this m employed in the of determine which the Sections 13 and	f dust in the air (i.e., clearing dust surfaces

#### SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	<ul> <li>Do not get on skin or clothing. Do not breathe dust. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the</li> </ul>
Conditions for safe storage	<ul> <li>environment.</li> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> </ul>
Materials to avoid	<ul> <li>Store in accordance with the particular national regulations.</li> <li>Do not store with the following product types: Strong oxidizing agents</li> <li>Self-reactive substances and mixtures</li> <li>Organic peroxides</li> </ul>



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Explosives Gases

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

#### Ingredients with workplace control parameters Value type CAS-No. Control parame-Components Basis ters / Permissible (Form of exposure) concentration Oxyclozanide 2277-92-1 0.4 mg/m3 (OEB Internal TWA 2) 53716-50-0 TWA 40 µg/m3 (OEB 3) Internal oxfendazole Wipe limit 400 µg/100 cm<sup>2</sup> Internal Starch, oxidized 65996-62-5 CMP (inhal-0,5 mg/m<sup>3</sup> AR OEL able dust) Further information: Sensitization 0,5 mg/m<sup>3</sup> ACGIH TWA (inhalable dust) 557-04-0 CMP 10 mg/m<sup>3</sup> AR OEL Magnesium stearate Further information: A4 - Not classifiable as a human carcinogen TWA 10 mg/m<sup>3</sup> ACGIH (Inhalable particulate matter) TWA 3 mg/m<sup>3</sup> ACGIH (Respirable

Engineering measures	:	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.	
Personal protective equipme	ent		
Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.	
Filter type	:	Particulates type	
Hand protection			
Material	:	Chemical-resistant gloves	
Remarks Eye protection	:	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.	

particulate matter)



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Skin and body protection		<ul> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> <li>Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.</li> </ul>				
Hyg	Hygiene 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 use of administrative controls.</li> </ul>			
SECTIO	N 9. PHYSICAL AND CHI	EMIC	CAL PROPERTIES	S		
Арр	earance	:	powder			
Colo	or	:	white to off-white, light cream, cream			
Odo	r	:	No data available			
Odo	r Threshold	:	No data available			
pН		:	No data available	9		
Melt	ing point/freezing point	:	No data available	9		
Initia rang	al boiling point and boiling ge	:	No data available	9		
Flas	h point	:	Not applicable			
Eva	poration rate	:	Not applicable			
Flan	nmability (solid, gas)	:	May form explosing the handling or other	ive dust-air mixture during processing, means.		
Flan	nmability (liquids)	:	Not applicable			

Upper explosion limit / Upper:No data availableflammability limit:No data availableLower explosion limit / Lower:No data availableflammability limit:No tapplicable



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Relative density	: No data available
Density	: 0,88 g/cm <sup>3</sup>
Solubility(ies) Water solubility	: No data available
Partition coefficient: n- octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	e : No data available
Viscosity Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Molecular weight	: No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Stable under norm May form explosiv nandling or other	ve dust-air mixture during processing,
Conditions to avoid	Heat, flames and a Avoid dust formati	•
Incompatible materials	<b>Dxidizing agents</b>	
Hazardous decomposition products		composition products are known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	
exposure		Skin contact Ingestion
		Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg
		Method: Calculation method



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Comp	oonents:			
Oxyc	lozanide:			
Acute	oral toxicity	:	LD50 (Rat): 3.519 Target Organs: C	mg/kg entral nervous system
	toxicity (other routes of istration)	:	LDLo (sheep): 10 Application Route	
oxfen	dazole:			
Acute	oral toxicity	:	LD50 (Rat): > 6.0	00 mg/kg
			LD50 (Dog): 1.60	0 mg/kg
			LD50 (sheep): 25	0 mg/kg
Magn	esium stearate:			
Acute	oral toxicity	:	icity	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Remarks: Based	2.000 mg/kg on data from similar materials
Skin o	corrosion/irritation			
Not cl	assified based on availa	ble	information.	
Comp	oonents:			
	lozanide:			
<b>Oxyc</b> Rema		:	Not classified due	to lack of data.
Rema		:	Not classified due	to lack of data.
Rema oxfen Speci	rks <b>dazole:</b> es	:	Rabbit	to lack of data.
Rema oxfen	rks <b>dazole:</b> es	:		to lack of data.
Rema oxfen Speci Resul Magn	ırks dazole: es t esium stearate:	:	Rabbit	to lack of data.
Rema oxfen Speci Resul Magn Speci	irks i <b>dazole:</b> es t e <b>sium stearate:</b> es	:	Rabbit No skin irritation Rabbit	to lack of data.
Rema oxfen Speci Resul Magn	irks i <b>dazole:</b> es t es <b>esium stearate:</b> es t		Rabbit No skin irritation Rabbit No skin irritation	to lack of data. m similar materials
Rema oxfen Speci Resul Magn Speci Resul Rema	ırks <b>idazole:</b> es t e <b>sium stearate:</b> es t ırks	:	Rabbit No skin irritation Rabbit No skin irritation Based on data fro	
Rema oxfen Speci Resul Magn Speci Resul Rema Serio	irks i <b>dazole:</b> es t es <b>esium stearate:</b> es t		Rabbit No skin irritation Rabbit No skin irritation Based on data fro	
Rema oxfen Speci Resul Speci Resul Rema Serio Not cl	ırks I <b>dazole:</b> es t es <b>ium stearate:</b> es t ırks <b>us eye damage/eye irri</b>		Rabbit No skin irritation Rabbit No skin irritation Based on data fro	
Rema oxfen Speci Resul Speci Resul Rema Serio Not cl <u>Comp</u>	rks dazole: es t esium stearate: es t urks us eye damage/eye irri assified based on availa		Rabbit No skin irritation Rabbit No skin irritation Based on data fro	



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oxfen	dazole:			
Speci Resul		:	Rabbit No eye irritation	
<b>Magn</b> Speci Resul		:	Rabbit No eye irritation	
Rema		:		om similar materials
Resp	iratory or skin sensiti	zatio	on	
•••••	sensitization assified based on avai	lable	information.	
-	iratory sensitization assified based on avai	lable	information.	
Comp	oonents:			
	lozanide:		<b>_</b>	
Route Rema	es of exposure Irks	:	Dermal Not classified due	e to lack of data.
	esium stearate:			
Test T Route	Гуре es of exposure	:	Maximization Tes Skin contact	it
Speci	es	:	: Guinea pig	
Metho Resul		:	OECD Test Guide negative	eline 406
Rema	irks	:		om similar materials
	cell mutagenicity			
	assified based on avai	lable	information.	
	oonents: Iozanide:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Test system: Hun Result: positive	nosomal aberration nan lymphocytes
			Test Type: Mouse Result: positive	e Lymphoma
Geno	toxicity in vivo	:	Test Type: Micror Species: Mouse Application Route Result: negative	
II			Test Type: unsch	eduled DNA synthesis assay



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			Species: Rat Cell type: Liver ce Application Route Result: negative	
	cell mutagenicity - ssment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
oxfer	ndazole:			
	toxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
Geno	toxicity in vivo	:		jenicity (in vivo mammalian bone-marrow chromosomal analysis) e: Oral
Magr	esium stearate:			
	toxicity in vitro	:	Result: negative	o mammalian cell gene mutation test on data from similar materials
			Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473 on data from similar materials
			Result: negative	rial reverse mutation assay (AMES) on data from similar materials
	i <b>nogenicity</b> lassified based on avail	able	information.	
Com	ponents:			
Oxyc Rema	<b>lozanide:</b> arks	:	Not classified due	e to lack of data.
ovfor	ndazole:			
Speci Applic Expos Symp	ies cation Route sure time	:	Rat Oral 1 Years No adverse effect Liver	ts.
Expo Symp	ies cation Route sure time otoms et Organs		Rat Oral 2 Years No adverse effect Liver	ts.



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Repr	oductive toxicity		

May damage fertility. May damage the unborn child.

#### Components:

<b>Oxyclozanide:</b> Effects on fertility :	Test Type: Two-generation reproduction toxicity study Species: Rat, male and female Application Route: Oral General Toxicity Parent: NOAEL: 25 - 35 mg/kg body weight Symptoms: Reduced body weight, No effects on embryofetal and postnatal development. Result: No effects on fertility.
	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral General Toxicity Parent: LOAEL: 75 - 100 mg/kg body weight Symptoms: Reduced body weight, No effects on embryofetal and postnatal development. Result: No effects on fertility.
	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Oral Early Embryonic Development: LOAEL: 75 - 100 mg/kg body weight Result: No fetotoxicity., No teratogenic effects.
	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Oral General Toxicity Parent: LOAEL: 80 - 160 mg/kg body weight Result: No fetotoxicity., No teratogenic effects., No effects on fertility.
Effects on fetal development :	Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 200 mg/kg body weight Result: No fetotoxicity., No teratogenic effects.
	Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: LOAEL: 100 mg/kg body weight Result: No fetotoxicity., No teratogenic effects.
	Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 32 mg/kg body weight Result: Fetotoxicity., Skeletal malformations.



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Repro	oductive toxicity - As- nent	:	Suspected of dan	naging the unborn child.
	ndazole: ts on fertility	:	Species: Rat, ma Application Route	e: Oral 17 mg/kg body weight estes
			Species: Rat Application Route	0,9 mg/kg body weight iver
				e: Oral e Treatment: 1 Months 750 mg/kg body weight estes
Effect	ts on fetal development	:	Species: Rat Application Route	oxicity: NOAEL: 10 mg/kg body weight
			Species: Rat Developmental Te	yo-fetal development oxicity: NOAEL: 10 mg/kg body weight Embryo-fetal toxicity.
			Species: Mouse Application Route Developmental To	yo-fetal development e: Oral oxicity: NOAEL: 108 mg/kg body weight Embryo-fetal toxicity., Fetal abnormalities.
			Species: Rabbit Application Route	yo-fetal development e: Oral oxicity: NOAEL: 0,625 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Clear evidence of n development, based on animal
	esium stearate:			
Effect	ts on fertility	:	Test Type: Comb	ined repeated dose toxicity study with the



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			Species: Rat Application Route Method: OECD T Result: negative	elopmental toxicity screening test e: Ingestion est Guideline 422 on data from similar materials
Effec	ts on fetal development	:	Species: Rat Application Route Result: negative	vo-fetal development e: Ingestion on data from similar materials
	T-single exposure			ere) if eventlessed
	cause damage to organs ponents:	5 (Ce	entral nervous syst	em) if swallowed.
	clozanide:			
	es of exposure	:	Oral	
	et Organs ssment	:	Central nervous s May cause dama	
<b>Oxyc</b> Targo	ponents: clozanide: et Organs ssment	:	Brain, Liver May cause dama exposure.	ge to organs through prolonged or repeated
	ndazole:		<b>•</b> •	
Rout Targo Asse	es of exposure et Organs ssment	:	Oral Liver, Testis May cause dama exposure.	ge to organs through prolonged or repeated
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Охус	clozanide:			
Targo Sym	EL EL ication Route osure time et Organs otoms		Rat 9 mg/kg 44,5 mg/kg Oral 3 Months Brain, Liver, splee Liver effects	en, Adrenal gland
Spec	sies	:	Dog	



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Expos	L cation Route sure time t Organs	<ul> <li>5 mg/kg</li> <li>25 mg/kg</li> <li>Oral</li> <li>3 Months</li> <li>Brain, Liver</li> <li>blood effects, alteration in liver enzymes</li> </ul>
oxfen	dazole:	
Expos		: Rat : 11 mg/kg : Oral : 2 Weeks : Blood, Liver, Testis
Expos		: Rat : 3,8 mg/kg : Oral : 3 Months : Liver, Testis
Expos		: Mouse : 750 mg/kg : Oral : 1 Months : Liver
Expos	es EL cation Route sure time t Organs	<ul> <li>Mouse</li> <li>37,5 mg/kg</li> <li>Oral</li> <li>3 Months</li> <li>Liver</li> </ul>
Speci NOAE Applic Expos Rema	EL cation Route sure time	<ul> <li>Dog</li> <li>6 mg/kg</li> <li>Oral</li> <li>1 Months</li> <li>No significant adverse effects were reported</li> </ul>
Expos	es EL cation Route sure time t Organs	<ul> <li>Dog</li> <li>11 mg/kg</li> <li>Oral</li> <li>2 Weeks</li> <li>Lymph nodes, thymus gland</li> </ul>
Expos		: Dog : 13,5 mg/kg : Oral : 12 Months : Liver
Speci NOAE		: Rat : 22.500 mg/kg : Ingestion



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Expos	sure time	:	90 Days	
Magn	esium stearate:			
Speci		:	Rat	
NOAEL Application Route Exposure time			> 100 mg/kg	
			: Ingestion : 90 Days	
Rema		:		om similar materials
-	ation toxicity assified based on availa	able	information.	
	oonents:			
Oxvc	lozanide:			
•	oplicable			
Expe	rience with human exp	osi	ıre	
Comp	oonents:			
-	lozanide:			
Ingestion : Symptoms: May cause, Gastrointestinal disturbance, nervous system depression				cause Gastrointestinal disturbance Central
Inges		•		
II	12. ECOLOGICAL INFO	ORM	nervous system	
II		ORM	nervous system	
		ORN	nervous system	
ECTION ECTION	12. ECOLOGICAL INF	ORN	nervous system	
ECTION Ecoto <u>Comp</u>	12. ECOLOGICAL INF	ORN	nervous system	
ECTION Ecoto <u>Comp</u> Oxycl	12. ECOLOGICAL INFO		ATION EC50 (Daphnia n Exposure time: 4	depression magna (Water flea)): 0,69 mg/l
ECTION Ecoto <u>Comp</u> Oxycl Toxici aquat M-Fao	12. ECOLOGICAL INF oxicity ponents: lozanide: ty to daphnia and other		ATION EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 0,69 mg/l l8 h
ECTION Ecoto <u>Comp</u> Oxycl Toxici aquat M-Fao icity)	12. ECOLOGICAL INF exicity ponents: lozanide: ty to daphnia and other ic invertebrates ctor (Acute aquatic tox-	:	EC50 (Daphnia n Exposure time: 4 Method: OECD	nagna (Water flea)): 0,69 mg/l l8 h
ECTION Ecoto <u>Comp</u> Oxycl Toxici aquat M-Fao icity)	12. ECOLOGICAL INFO	:	ATION EC50 (Daphnia n Exposure time: 4 Method: OECD	nagna (Water flea)): 0,69 mg/l l8 h
ECTION Ecoto <u>Comp</u> Oxycl Toxici aquat M-Fac icity) M-Fac toxicit	12. ECOLOGICAL INFO	:	ATION EC50 (Daphnia n Exposure time: 4 Method: OECD	nagna (Water flea)): 0,69 mg/l l8 h
ECTION Ecoto Comr Oxycl Toxici aquat M-Fac icity) M-Fac toxicit oxfen	12. ECOLOGICAL INF points: lozanide: ty to daphnia and other ic invertebrates ctor (Acute aquatic tox- ctor (Chronic aquatic y)	:	ATION EC50 (Daphnia n Exposure time: 4 Method: OECD 1 1	depression magna (Water flea)): 0,69 mg/l l8 h Γest Guideline 202 macrochirus (Bluegill sunfish)): > 2,7 mg/l
ECTION Ecoto Comr Oxycl Toxici aquat M-Fac icity) M-Fac toxicit oxfen	12. ECOLOGICAL INFO	:	ATION EC50 (Daphnia n Exposure time: 4 Method: OECD 1 1 1 LC50 (Lepomis n Exposure time: 9	depression magna (Water flea)): 0,69 mg/l <sup>18</sup> h Fest Guideline 202 macrochirus (Bluegill sunfish)): > 2,7 mg/l 96 h chus mykiss (rainbow trout)): > 2,5 mg/l
ECTION Ecoto Comr Oxycl Toxici aquat M-Fac icity) M-Fac icity) M-Fac toxicit Toxici	12. ECOLOGICAL INFO	: :	ATION EC50 (Daphnia r Exposure time: 4 Method: OECD 1 1 1 LC50 (Lepomis r Exposure time: 9 LC50 (Oncorhyn Exposure time: 9 EC50 (Daphnia r Exposure time: 4	depression magna (Water flea)): 0,69 mg/l <sup>18</sup> h Fest Guideline 202 macrochirus (Bluegill sunfish)): > 2,7 mg/l 96 h chus mykiss (rainbow trout)): > 2,5 mg/l 96 h magna (Water flea)): 0,059 mg/l
ECTION Ecoto Comr Oxycl Toxici aquat M-Fac icity) M-Fac toxicit oxfen Toxici Toxici	12. ECOLOGICAL INFO poly conents: locanide: ty to daphnia and other ic invertebrates ctor (Acute aquatic tox- ctor (Chronic aquatic y) idazole: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	: :	ATION EC50 (Daphnia n Exposure time: 4 Method: OECD 1 1 1 LC50 (Lepomis n Exposure time: 9 LC50 (Oncorhyn Exposure time: 9 EC50 (Daphnia n Exposure time: 4 Method: OECD	depression magna (Water flea)): 0,69 mg/l <sup>I8</sup> h Fest Guideline 202 macrochirus (Bluegill sunfish)): > 2,7 mg/l 96 h chus mykiss (rainbow trout)): > 2,5 mg/l 96 h magna (Water flea)): 0,059 mg/l I8 h



rsion )	Revision Date: 30.09.2023	SDS Number: 7942485-000				
		Exposure Method: C	time: 72 h ECD Test Guideline 201			
		mg/l Exposure	eudokirchneriella subcapitata (green algae)): > 4 time: 72 h ECD Test Guideline 201			
M-Fac icity)	tor (Acute aquatic tox-	: 10				
Toxicit	y to daphnia and other c invertebrates (Chron- sity)	Exposure	<ul> <li>NOEC (Daphnia magna (Water flea)): 0,023 mg/l</li> <li>Exposure time: 21 d</li> <li>Method: OECD Test Guideline 211</li> </ul>			
M-Fac toxicity	tor (Chronic aquatic ′)	: 1				
Magne	esium stearate:					
Toxicit	y to fish	Exposure Method: D				
	y to daphnia and other c invertebrates	Exposure Test subs Method: D Remarks:	ohnia magna (Water flea)): > 1 mg/l time: 47 h cance: Water Accommodated Fraction irective 67/548/EEC, Annex V, C.2. Based on data from similar materials at the limit of solubility.			
Toxicity to algae/aquatic plants		mg/l Exposure Test subs Method: C Remarks: No toxicity NOELR (F mg/l Exposure	ance: Water Accommodated Fraction ECD Test Guideline 201 Based on data from similar materials at the limit of solubility. Pseudokirchneriella subcapitata (green algae)): > time: 72 h			
Toxicit	y to microorganisms	Method: C Remarks: : EC10 (Pso Exposure Test subs	cance: Water Accommodated Fraction ECD Test Guideline 201 Based on data from similar materials eudomonas putida): > 100 mg/l time: 16 h cance: Water Accommodated Fraction Based on data from similar materials			

#### Components:

#### Oxyclozanide:



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Stabil	Stability in water		Hydrolysis: 50 %(156 d) Method: OECD Test Guideline 111		
oxfer	idazole:				
Stabil	ity in water	:	Hydrolysis: < 5 %(4 d)		
Maqn	esium stearate:				
	gradability	:	Result: Not biodegradable Remarks: Based on data from similar materials		
Bioad	cumulative potential				
Com	oonents:				
Охус	lozanide:				
Partiti	Partition coefficient: n- octanol/water		log Pow: 3,99 pH: 7 Method: OECD T	est Guideline 107	
oxfer	idazole:				
	ion coefficient: n- ol/water	:	: log Pow: 1,95		
	esium stearate:				
	ion coefficient: n- ol/water	:	log Pow: > 4		
Mobil	lity in soil				
Comp	oonents:				
Охус	lozanide:				
	oution among environ- al compartments	:		est Guideline 106	
oxfer	idazole:				
	oution among environ- al compartments	:	log Koc: 3,2		
	r <b>adverse effects</b> ata available				

### SECTION 13. DISPOSAL CONSIDERATIONS

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



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SECTION	14. TRANSPORT INFO	RMATION	
Inter	national Regulations		
	-		
UNR			
-	umber er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, SOLID,
Class	_	: 9	e, oxyclozanide)
	s ing group	:	
Labe		: 9	
Envir	onmentally hazardous	: yes	
ΙΑΤΑ	-DGR		
	D No.	: UN 3077	
Prop	er shipping name		ally hazardous substance, solid, n.o.s. e, Oxyclozanide)
Class	5	: 9	
	ing group	: !!!	
Labe		: Miscellaneou	JS
Pack aircra	ing instruction (cargo	: 956	
Pack	ing instruction (passen- ircraft)	: 956	
Ēnvir	onmentally hazardous	: yes	
IMDO	G-Code		
	lumber	: UN 3077	
Prop	er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, SOLID,
Class	_	: 9	e, Oxyclozanide)
	ing group	. 9 : III	
Labe		: 9	
	Code	: F-A, S-F	
	ne pollutant	: yes	

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 environmental regula mixture	tions/legislatio	n specific for the substance or
Argentina. Carcinogenic Substances and A Registry.	Agents :	Not applicable



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prepa	aration of drugs.				
<b>The i</b> AICS	ngredients of this proc	duct :	are reported in t not determined	he following inventories:	
DSL		:	not determined		
IECS	С	:	not determined		
SECTION	16. OTHER INFORMA	TIOI	N		
	ion Date format	:	30.09.2023 dd.mm.yyyy		
Furth	er information				
comp	ces of key data used to ile the Material Safety Sheet	:		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ıropa.eu/	
	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.				
Full t	ext of other abbreviati	ons			
ACGI AR O		:		reshold Limit Values (TLV) pational Exposure Limits	
	H / TWA EL / CMP	:	,		
				s; ANTT - National Agency for Transport by esting of Materials; bw - Body weight; CMR -	

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 Substanc-



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
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es; (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 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 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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