

Version 4.0	Revision Date: 06.04.2024		S Number: 12489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
Section 1:	Identification			
Produ	uct identifier	:	Oxfendazole / C	Dxyclozanide Formulation
Reco	mmended use of the ch	nem	ical and restrict	ions on use
Recor	Recommended use		Veterinary medi	cine
Restri	ctions on use	:	Not applicable	
Manu	facturer or supplier's d	etai	ils	
Comp	any	:	MSD	
Addre	SS	:	50 Tuas West D	Drive
			Singapore - Sir	ngapore 638408
Telep	hone	:	+1-908-740-400	00
Emer	gency telephone number	:	65 6697 2111 (2	24/7/365)
E-mai	l address	:	EHSDATASTE	NARD@msd.com
Section 2:	Hazard identification			

Classification of the substance or mixture

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, including precautionary statements

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



		through prolon	se damage to organs (Liver, Testis, Brain) ged or repeated exposure. ic to aquatic life with long lasting effects.
Precau	tionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P273 Avoid rel P280 Wear pro	
		Response: P308 + P311 I CENTER/ doct P391 Collect s	
		Storage: P405 Store loc	sked up.
		Disposal:	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 -< 10

Section 4: First-aid measures

Description of necessary 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



rsion	Revision Date: 06.04.2024		OS Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021		
lf inha	aled		advice.	ove to fresh air.		
		•	Get medical at			
In cas	e of skin contact	:	of water. Remove conta Get medical at Wash clothing			
In cas	e of eye contact	:	If in eyes, rinse	e well with water.		
lf swa	llowed	 Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. 				
Most	important symptoms a	nd	effects, both a	cute and delayed		
Risks	ction of first-aiders	:	May cause dat May cause dat exposure. Contact with d the skin. Dust contact w	ertility. May damage the unborn child. nage to organs if swallowed. nage to organs through prolonged or repeate ust can cause mechanical irritation or drying ith the eyes can lead to mechanical irritation nders should pay attention to self-protection,		
Indica	ation of any immediate	me	when the pote	commended personal protective equipment ntial for exposure exists (see section 8). and special treatment needed		
Treatr	•	:		natically and supportively.		
Exting Suitat	Fire-fighting measure Juishing media ble extinguishing media table extinguishing	s :	Water spray Alcohol-resista Carbon dioxida Dry chemical None known.			
	1		• /			
media	al hananda antatua form	- 41-				
media Spec i	ial hazards arising from	n th				
media Spec i	fic hazards during fire-	n th :	Avoid generati concentrations potential dust	ng dust; fine dust dispersed in air in sufficien , and in the presence of an ignition source is explosion hazard. ombustion products may be a hazard to healt		



Version 4.0	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021	

Special protective actions for fire-fighters

Special protective equipment for firefighters Specific extinguishing meth- ods	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so.
		Evacuate area.

Section 6: Accidental release measures

	quipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions 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 containr	nent and cleaning up
Methods for cleaning up :	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Section 7: Handling and storage

Precautions for safe handli	ng
Technical measures	: Static electricity may accumulate and ignite suspended dust causing an explosion.
	Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	: Do not get on skin or clothing.



Version 4.0	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
Hygiene measures :		 Handle in accorr practice, based sessment Keep container Minimize dust g Keep container Keep away from Take precaution Do not eat, drinl Take care to pre- environment. If exposure to cl flushing systems place. When using do Wash contamina The effective op engineering con- appropriate deg 	ith eyes. bughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. eneration and accumulation. closed when not in use. In heat and sources of ignition. hary measures against static discharges. K or smoke when using this product. event spills, waste and minimize release to the memical is likely during typical use, provide eye is and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. heration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, he monitoring, medical surveillance and the
Condit	tions for safe storage ions for safe storage als to avoid	: Keep in properly Store locked up Keep tightly clos Store in accords	/ labelled containers. sed. ance with the particular national regulations. h the following product types:

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
oxyclozanide	2277-92-1	TWA	0.4 mg/m3 (OEB 2)	Internal
oxfendazole	53716-50-0	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm ²	Internal
Starch, oxidized	65996-62-5	TWA (inhal- able dust)	0.5 mg/m3	ACGIH
Magnesium stearate	557-04-0	PEL (long term)	10 mg/m3	SG OEL



sion	Revision Date: 06.04.2024		S Number: 2489-00008		t issue: 30.09.2023 t issue: 19.03.2021	
				TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
				TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
	opriate engineering ol measures		design and op protect produc Containment are required t	Derated in accord cts, workers, and technologies sui o control at sour d to uncontrolled ces).	d be implemented by dance with GMP prind the environment. table for controlling ce and to prevent m areas (e.g., open-fa	compounds
Indivi	dual protection mea	asures,	such as pers	sonal protective	e equipment (PPE)	
Eye/fa	ace protection		If the work en mists or aeros Wear a faces	vironment or act sols, wear the ap hield or other ful	shields or goggles. ivity involves dusty oppropriate goggles. I face protection if th he face with dusts, r	ere is a
	protection ratory protection	:	Work uniform Additional boo task being pe posable suits) Use appropria contaminated If adequate lo	rformed (e.g., sle) to avoid expose ate degowning te clothing. cal exhaust ven	uld be used based u eevelets, apron, gau ed skin surfaces. echniques to remove tilation is not availab	potentially le or expo-
					es exposures outside spiratory protection.	
	ter type protection		Particulates ty			
Ma	aterial	:	Chemical-resi	istant gloves		
Re	emarks	:	Consider dou	ble gloving.		
ction 9:	Physical and chem	ical pro	perties			
Annes	arance		powder			

Appearance	: powder	
Colour	: white to off-white, light cream, cre	eam
Odour	: No data available	
Odour Threshold	: No data available	
рН	: No data available	

SAFETY DATA SHEET



Oxfendazole / Oxyclozanide Formulation

ersion .0	Revision Date: 06.04.2024		S Number: 2489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
	"			
Melt	ing point/freezing point	:	No data available	9
Initia rang	al boiling point and boiling Je	:	No data available	9
Flas	h point	:	Not applicable	
Eva	poration rate	:	Not applicable	
Flan	nmability (solid, gas)	:	May form explosidling or other me	ive dust-air mixture during processing, han ans.
Flan	nmability (liquids)	:	Not applicable	
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vap	our pressure	:	Not applicable	
Rela	ative vapour density	:	Not applicable	
Rela	ative density	:	No data available	9
Den	sity	:	0.88 g/cm ³	
	bility(ies) Vater solubility	:	No data available	9
	ition coefficient: n-	:	Not applicable	
	nol/water b-ignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	9
	osity /iscosity, kinematic	:	Not applicable	
Expl	osive properties	:	Not explosive	
Oxic	lizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	9

Section 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.



ersion 0	Revision Date: 06.04.2024	-	S Number: 12489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021			
Possi tions	bility of hazardous reac-	:	dling or other n	sive dust-air mixture during processing, han- leans. strong oxidizing agents.			
Conditions to avoid Incompatible materials Hazardous decomposition products		:	 Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known. 				
ection 1 ⁻	1: Toxicological inform	atio	'n				
Inforn expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact				
	e toxicity lassified based on availa	ble	information.				
<u>Com</u>	oonents:						
oxycl	ozanide:						
Acute	oral toxicity	:	LD50 (Rat): 3,5 Target Organs:	19 mg/kg Central nervous system			
	toxicity (other routes of histration)	:	LDLo (sheep): 1 Application Rou				
oxfer	idazole:						
Acute	oral toxicity	:	LD50 (Rat): > 6	000 mg/kg			
			LD50 (Dog): 1,6	00 mg/kg			
			LD50 (sheep): 2	250 mg/kg			
Magn	esium stearate:						
	oral toxicity	:	Assessment: Thicity	000 mg/kg Test Guideline 423 le substance or mixture has no acute oral tox d on data from similar materials			
Acute	e dermal toxicity	:	LD50 (Rabbit): : Remarks: Base	> 2,000 mg/kg d on data from similar materials			
-	corrosion/irritation	bla	information				
INOT CI	lassified based on availa	ne	mormation.				

oxyclozanide:



rsion)	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
Rema	arks	: Not classified d	ue to lack of data.
oxfer	ndazole:		
Speci Resu		: Rabbit : No skin irritatior	2
Resu	it.	. NO SKIT ITITATIO	I
	esium stearate:		
Speci		: Rabbit	_
Resu Rema	-	: No skin irritatior : Based on data	from similar materials
	us eye damage/eye lassified based on ava		
	oonents:		
oxycl	lozanide:		
Rema		: Not classified d	ue to lack of data.
oxfer	ndazole:		
Speci		: Rabbit	
Resu	lt	: No eye irritation	1
Magn	esium stearate:		
Speci		: Rabbit	
Resu	lt	: No eye irritatior	1
Rema	arks	: Based on data	from similar materials
Resp	iratory or skin sensi	tisation	
Skin	sensitisation		
	lassified based on ava		
-	iratory sensitisation lassified based on ava		
<u>Com</u>	oonents:		
oxycl	lozanide:		
Expos Rema	sure routes arks	: Dermal : Not classified d	ue to lack of data.
	esium stearate:		a at
Test Expos	i ype sure routes	: Maximisation To : Skin contact	esi
Speci		: Guinea pig	
Metho		: OECD Test Gu	ideline 406
Resu	lt	: negative	



ersion 0	Revision Date: 06.04.2024		S Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
Rema	arks	:	Based on data	from similar materials
Not c	n cell mutagenicity lassified based on ava ponents:	ilable	information.	
	lozanide: toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
				omosomal aberration uman lymphocytes
			Test Type: Mou Result: positive	
Geno	toxicity in vivo	:	Test Type: Micr Species: Mouse Application Rou Result: negative	e ite: Oral
			Test Type: unso Species: Rat Cell type: Liver Application Rou Result: negative	ite: Oral
	cell mutagenicity -	:	Weight of evide cell mutagen.	nce does not support classification as a ge
	ndazole:			
Geno	toxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
Geno	toxicity in vivo	:		ite: Oral
Magn	esium stearate:			
	toxicity in vitro	:	Result: negative	tro mammalian cell gene mutation test e d on data from similar materials
			Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials



ersion 0	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
		Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials
Not c	i nogenicity lassified based on av ponents:	ailable information.	
	lozanide:		
Rema		: Not classified d	ue to lack of data.
Spec Appli Expo Symp	ndazole: ies cation Route sure time otoms et Organs	: Rat : Oral : 1 Years : No adverse effe : Liver	ects
Expo Symp	ies cation Route sure time otoms et Organs	: Rat : Oral : 2 Years : No adverse effe : Liver	ects
May	oductive toxicity damage fertility. May ponents:	damage the unborn chil	d.
-	lozanide: ts on fertility	Species: Rat, m Application Rou General Toxicit	ite: Oral y - Parent: NOAEL: 25 - 35 mg/kg body weigł duced body weight, No effects on embryofoet evelopment
		Species: Rat Application Rou General Toxicity weight	y - Parent: LOAEL: 75 - 100 mg/kg body duced body weight, No effects on embryofoet evelopment
			-generation reproduction toxicity study



Version 4.0	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
Effec	ts on foetal develop-	 weight Result: No fe Test Type: O Species: Rat Application R General Toxi weight Result: No fe fertility Test Type: D Species: Rat Application R Development Result: No fe Test Type: D Species: Rat Application R General Toxi 	onic Development: LOAEL: 75 - 100 mg/kg body totoxicity, No teratogenic effects ne-generation reproduction toxicity study oute: Oral city - Parent: LOAEL: 80 - 160 mg/kg body totoxicity, No teratogenic effects, No effects on evelopment oute: Oral cal Toxicity: NOAEL: 200 mg/kg body weight totoxicity, No teratogenic effects evelopment oute: Oral city Maternal: LOAEL: 100 mg/kg body weight totoxicity, No teratogenic effects evelopment oute: Oral city Maternal: LOAEL: 100 mg/kg body weight totoxicity, No teratogenic effects evelopment bit
	oductive toxicity - As-		oxicity, Skeletal malformations
sessi	ment ndazole:		
	ts on fertility	Species: Rat Application R	oute: Oral .EL: 17 mg/kg body weight ıs: Testes
		Species: Rat Application R Fertility: NOA Target Organ	oute: Oral EL: 0.9 mg/kg body weight
		Test Type: Fe Species: Mou Application R Duration of S	ISE



rsion)	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
		Target Orga	AEL: 750 mg/kg body weight ins: Testes cts on fertility
Effects on foetal develop- ment		Species: Ra Application Developmen	
		Species: Ra Developmer	Embryo-foetal development lt ntal Toxicity: NOAEL: 10 mg/kg body weight tive, Embryo-foetal toxicity
		Species: Mo Application Developmen	
		Species: Ra Application	
Repro sessm	oductive toxicity - As- nent	ity, based or	nce of adverse effects on sexual function and fertil n animal experiments., Clear evidence of adverse evelopment, based on animal experiments.
Magn	esium stearate:		
Effect	s on fertility	reproductior Species: Ra Application Method: OE Result: nega	Route: Ingestion CD Test Guideline 422
Effect ment	s on foetal develop-	Species: Ra Application Result: nega	Route: Ingestion

STOT - single exposure

May cause damage to organs (Central nervous system) if swallowed.



0	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
_			
	oonents:		
	lozanide:		
Expo	sure routes	: Oral	
	et Organs	: Central nervous	
Asses	ssment	: May cause dan	lage to organs.
STOT	- repeated exposu	re	
May o	cause damage to orga	ans (Liver, Testis, Brain) through prolonged or repeated exposure.
<u>Com</u>	ponents:		
oxycl	lozanide:		
	et Organs	: Brain, Liver	
Asses	ssment		hage to organs through prolonged or repeated
II		exposure.	
oxfer	ndazole:		
	sure routes	: Oral	
	et Organs	: Liver, Testis	
-	ssment		age to organs through prolonged or repeated
Repe	ated dose toxicity		
-	ated dose toxicity ponents:		
Com	-		
Com oxycl	oonents: lozanide: es	: Rat	
Com oxycl Speci NOAE	oonents: Iozanide: es EL	: 9 mg/kg	
Com oxycl Speci NOAE LOAE	oonents: Iozanide: es EL EL	: 9 mg/kg : 44.5 mg/kg	
Com oxycl Speci NOAE LOAE Applid	oonents: lozanide: es EL EL cation Route	: 9 mg/kg : 44.5 mg/kg : Oral	
Com oxycl Speci NOAE LOAE Applic Expos	oonents: lozanide: es EL EL cation Route sure time	: 9 mg/kg : 44.5 mg/kg : Oral : 3 Months	een. Adrenal gland
Com oxycl Speci NOAE LOAE Applic Expos	Doments: lozanide: les EL EL cation Route sure time et Organs	: 9 mg/kg : 44.5 mg/kg : Oral : 3 Months	een, Adrenal gland
Composed of the second	Doments: lozanide: es EL EL cation Route sure time et Organs otoms	: 9 mg/kg : 44.5 mg/kg : Oral : 3 Months : Brain, Liver, spl : Liver effects	een, Adrenal gland
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE	Doments: lozanide: es EL EL cation Route sure time et Organs otoms	: 9 mg/kg : 44.5 mg/kg : Oral : 3 Months : Brain, Liver, spl	een, Adrenal gland
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE	Doments: lozanide: EL EL cation Route sure time ot Organs otoms EL EL	: 9 mg/kg : 44.5 mg/kg : Oral : 3 Months : Brain, Liver, spl : Liver effects : Dog : 5 mg/kg : 25 mg/kg	een, Adrenal gland
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE Applic	ponents: lozanide: EL EL cation Route sure time et Organs otoms EL EL EL cation Route	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg Q5 mg/kg Oral 	een, Adrenal gland
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE Applic Expos	Doments: Iozanide: Ies EL EL cation Route sure time et Organs otoms Ies EL EL cation Route sure time	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg 25 mg/kg Oral 3 Months 	een, Adrenal gland
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE Applic Expos Targe	Doments: Iozanide: Ies EL EL cation Route sure time et Organs otoms Ies EL EL cation Route sure time et Organs	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg Oral 3 Months Brain, Liver 	
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE Applic Expos	Doments: Iozanide: Ies EL EL cation Route sure time et Organs otoms Ies EL EL cation Route sure time et Organs	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg Oral 3 Months Brain, Liver 	een, Adrenal gland Iteration in liver enzymes
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE Applic Expos Targe Symp	Doments: Iozanide: Ies EL EL cation Route sure time et Organs otoms Ies EL EL cation Route sure time et Organs	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg Oral 3 Months Brain, Liver 	
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE LOAE Applic Expos Targe Symp oxfer	bonents: lozanide: les EL EL cation Route sure time et Organs otoms EL EL cation Route sure time et Organs otoms hdazole: les	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg Oral 3 Months Brain, Liver 	
Comu oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE Symp oxfer Speci NOAE	bonents: lozanide: les EL EL cation Route sure time ot Organs otoms EL EL cation Route sure time et Organs otoms hdazole: les EL	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg 25 mg/kg Oral 3 Months Brain, Liver blood effects, a Rat 11 mg/kg 	
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE Applic Expos Targe Symp	bonents: lozanide: les EL EL cation Route sure time et Organs otoms es EL EL cation Route sure time et Organs otoms hdazole: les EL cation Route	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg 25 mg/kg Oral 3 Months Brain, Liver blood effects, a Rat 11 mg/kg Oral 	
Com oxycl Speci NOAE LOAE Applic Expos Targe Symp Speci NOAE Applic Expos Targe Symp oxfer Speci NOAE	bonents: lozanide: les EL EL cation Route sure time ot Organs otoms EL EL cation Route sure time et Organs otoms hdazole: les EL	 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, spl Liver effects Dog 5 mg/kg 25 mg/kg Oral 3 Months Brain, Liver blood effects, a Rat 11 mg/kg 	Iteration in liver enzymes



Version 4.0	Revision Date: 06.04.2024	SDS Number: 7942489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
Expo		: Rat : 3.8 mg/kg : Oral : 3 Months : Liver, Testis	
Expos		: Mouse : 750 mg/kg : Oral : 1 Months : Liver	
Expos		: Mouse : 37.5 mg/kg : Oral : 3 Months : Liver	
	EL cation Route sure time	: Dog : 6 mg/kg : Oral : 1 Months : No significant	adverse effects were reported
Expo		: Dog : 11 mg/kg : Oral : 2 Weeks : Lymph nodes,	, thymus gland
Expos		: Dog : 13.5 mg/kg : Oral : 12 Months : Liver	
Speci NOAE Applio		: Rat : 22,500 mg/kg : Ingestion : 90 Days	
Speci NOAE Applio	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on data	a from similar materials



ersion 0	Revision Date: 06.04.2024		DS Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021	
-	ration toxicity lassified based on availa	able	information.		
Com	ponents:				
	lozanide: pplicable				
Expe	rience with human exp	osi	ıre		
Com	ponents:				
oxyc	lozanide:				
Ingestion :		:	Symptoms: May cause, Gastrointestinal disturbance, Central nervous system depression		
ection 1	2: Ecological informati	on			
Toxic	h itv				
	-				
-	<u>ponents:</u>				
	lozanide:	_	FOFO (Dephain		
	ity to daphnia and other tic invertebrates	:	Exposure time:	n magna (Water flea)): 0.69 mg/l 48 h Test Guideline 202	
	ctor (Acute aquatic tox-	:	1		
icity) M-Fa toxicit	ctor (Chronic aquatic ty)	:	1		
oxfer	ndazole:				
Toxic	ity to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): > 2.7 mg/l 96 h	
			LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): > 2.5 mg/l 96 h	
	ity to daphnia and other tic invertebrates	:	Exposure time:	magna (Water flea)): 0.059 mg/l 48 h Test Guideline 202	

		Method. OLOD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): > 4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



Version 4.0	Revision Date: 06.04.2024		OS Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021	
M-Fa	ctor (Acute aquatic tox-	:	10		
Toxic	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 0.023 mg/l 1 d ⁻ est Guideline 211	
M-Fa toxicit	ctor (Chronic aquatic ty)	:	1		
Magn	nesium stearate:				
	ity to fish	:	Exposure time: 4 Method: DIN 384		
	ity to daphnia and other tic invertebrates	:	Exposure time: 4 Test substance: Method: Directive	Water Accommodated Fraction e 67/548/EEC, Annex V, C.2. on data from similar materials	
	Toxicity to algae/aquatic : plants		EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials No toxicity at the limit of solubility		
			mg/l Exposure time: 7 Test substance: Method: OECD 1	kirchneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction Fest Guideline 201 on data from similar materials	
Toxic	ity to microorganisms	:	Exposure time: 1 Test substance:	onas putida): > 100 mg/l 6 h Water Accommodated Fraction on data from similar materials	
Persi	istence and degradabili	ity			
<u>Com</u>	ponents:				
oxyc	lozanide:				
	lity in water		Hydrolysis: 50 %	(156 d)	

Stability in water	:	Hydrolysis: 50 %(156 d) Method: OECD Test Guideline 111
11		

oxfendazole:



ersion D	Revision Date: 06.04.2024		OS Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021			
Stabi	lity in water	:	Hydrolysis: < 5 9	%(4 d)			
Magr	esium stearate:						
Biodegradability		:	: Result: Not biodegradable Remarks: Based on data from similar materials				
Bioa	ccumulative potential						
Com	ponents:						
охус	lozanide:						
	ion coefficient: n- ol/water	:	log Pow: 3.99 pH: 7 Method: OECD	Test Guideline 107			
oxfer	ndazole:						
	ion coefficient: n- ol/water	:	log Pow: 1.95				
Magr	nesium stearate:						
	ion coefficient: n- ol/water	:	log Pow: > 4				
Mobi	lity in soil						
Com	ponents:						
охус	lozanide:						
	bution among environ- al compartments	:		Test Guideline 106			
oxfer	ndazole:						
	bution among environ- al compartments	:	log Koc: 3.2				
Othe	r adverse effects						
No da	ata available						

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

Section 14: Transport information

International Regulations



Version 4.0	Revision Date: 06.04.2024		9S Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
UNRT UN nu UN pro		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
Transport hazard class(es) Packing group Labels Environmental hazards		:	(oxfendazole, oxy 9 III 9 yes	(ciozanide)
IATA-DGR UN/ID No. UN proper shipping name		:	UN 3077 Environmentally h (oxfendazole, oxy	azardous substance, solid, n.o.s. /clozanide)
Packin Labels	ig instruction (cargo	:	9 III Miscellaneous 956	
Packin ger air	g instruction (passen-	:	956 yes	
IMDG- UN nu Proper		:	UN 3077 ENVIRONMENTA N.O.S. (oxfendazole, oxy	ALLY HAZARDOUS SUBSTANCE, SOLID,
Packin Labels EmS C		:	9 III 9 F-A, S-F yes	

Transport in bulk according to IMO instruments

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 regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations : Not applicable





Version 4.0	Revision Date: 06.04.2024		9S Number: 42489-00008	Date of last issue: 30.09.2023 Date of first issue: 19.03.2021
	Safety (Petroleum and lations	Flamr	nable Materials)	: Not applicable
-		roduc	t are reported in	the following inventories:
AICS	•	:	not determined	5
DSL		:	not determined	
IECS	С	:	not determined	
Section 1	6: Other information			
Revis	sion Date	:	06.04.2024	
Furth	ner information			
	ces of key data used to ile the Safety Data t) :		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- Iropa.eu/
	where changes have ment by two vertical lin		made to the previo	ous version are highlighted in the body of this
Date	format	:	dd.mm.yyyy	
Full t	ext of other abbrevia	tions		
ACGI SG C		:	Singapore. Work	reshold Limit Values (TLV) place Safety and Health (General Provisions) st Schedule Permissible Exposure Limits of s.
	IH / TWA DEL / PEL (long term)	:	8-hour, time-weig Permissible Expo	ghted average osure Level (PEL) Long Term
Land Carci Stand x% re ENCS x% g tem; d - Inte Equip centra cal S Mariti ganis	of Brazil; ASTM - Am nogen, Mutagen or R dardisation; DSL - Dom esponse; ELx - Loadir S - Existing and New rowth rate response; E GLP - Good Laborator ernational Air Transpo oment of Ships carryin ation; ICAO - Internatio ubstances in China; II ime Organization; ISH ation for Standardizati	ericar Reprod nestic ng rat Chem ERG - y Prac ort As oral C MDG L - In ion; K	a Society for the T ductive Toxicant; Substances List (e associated with ical Substances (Emergency Resp ctice; IARC - Interr sociation; IBC - ngerous Chemical ivil Aviation Organ - International Ma dustrial Safety an ECI - Korea Exist	s; ANTT - National Agency for Transport by Testing of Materials; bw - Body weight; CMR DIN - Standard of the German Institute fo Canada); ECx - Concentration associated with x% response; EmS - Emergency Schedule Japan); ErCx - Concentration associated with onse Guide; GHS - Globally Harmonized Sys- national Agency for Research on Cancer; IATA International Code for the Construction and s in Bulk; IC50 - Half maximal inhibitory con- nization; IECSC - Inventory of Existing Chemi- aritime Dangerous Goods; IMO - International d Health Law (Japan); ISO - International Or- ting Chemicals Inventory; LC50 - Lethal Con- hal Dose to 50% of a test population (Mediar

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



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
4.0	06.04.2024	7942489-00008	Date of first issue: 19.03.2021

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 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.

SG / EN