according to the Hazardous Products Regulations



Oxfendazole / Oxyclozanide Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
2.2	09/28/2024	7942504-00008	Date of first issue: 03/19/2021

SECTION 1. IDENTIFICATION

Product name	:	Oxfendazole / Oxyclozanide Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com
Emergency telephone	:	908-740-4000 1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	: Veterinary med	icine
Restrictions on use	: Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord Reproductive toxicity	dan :	ce with the Hazardous Products Regulations 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)
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. H373 May cause damage to organs (Liver, Testis, Brain) through prolonged or repeated exposure.
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.

according to the Hazardous Products Regulations



Oxfendazole / Oxyclozanide Formulation

Version 2.2	Revision Date: 09/28/2024	SDS Number: 7942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
		P280 Wear pro and face protec	tective gloves, protective clothing, eye protection stion.
		Response:	
		P308 + P311 IF	exposed or concerned: Call a doctor.
		Storage:	

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. 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

: Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Oxyclozanide	3,3',5,5',6- Pentachloro-2'- hydroxysalicy- lanilide	2277-92-1	48
oxfendazole	No data availa- ble	53716-50-0	24
Starch, oxidized	Tapioca Starch	65996-62-5	16.7216
Magnesium stearate	Octadecanoic acid, magnesi- um salt (2:1)	557-04-0	1.392

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 in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting.



Oxfendazole / Oxyclozanide Formulation

Version 2.2	Revision Date: 09/28/2024	SDS Number: 7942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021			
Most important symptoms and effects, both acute and delayed		Never give a : May damage May cause d May cause d exposure.	thoroughly with water. nything by mouth to an unconscious person. e fertility. May damage the unborn child. amage to organs if swallowed. amage to organs through prolonged or repeated			
	Protection of first-aiders Notes to physician		 Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. 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). Treat symptomatically and supportively. 			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Metal oxides Oxides of phosphorus
Specific extinguishing meth- ods	:	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.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	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.

SAFETY DATA SHEET according to the Hazardous Products Regulations

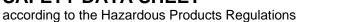


Oxfendazole / Oxyclozanide Formulation

Version 2.2	Revision Date: 09/28/2024	SDS Numbe 7942504-00	
		Retain a Local au	further leakage or spillage if safe to do so. Ind dispose of contaminated wash water. Ithorities should be advised if significant spillages be contained.
	hods and materials for tainment and cleaning up	containe Avoid dis with com Dust dep surfaces released Local or disposal employe determin Sections	up or vacuum up spillage and collect in suitable er for disposal. spersal of dust in the air (i.e., clearing dust surfaces npressed air). cosits should not be allowed to accumulate on s, as these may form an explosive mixture if they are d into the atmosphere in sufficient concentration. national regulations may apply to releases and of this material, as well as those materials and items ed in the cleanup of releases. You will need to ne which regulations are applicable. s 13 and 15 of this SDS provide information regarding ocal or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	Static electricity may accumulate and ignite suspended of causing an explosion. Provide adequate precautions, such as electrical ground and bonding, or inert atmospheres.	
Local/Total ventilation	If sufficient ventilation is unavailable, use with local exha	aust
Advice on safe handling	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 s 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	9
Conditions for safe storage	environment. Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulation	ons.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives	





Oxfendazole / Oxyclozanide Formulation

VersionRevision Da2.209/28/2024	e: SDS Number: 7942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
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Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
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 (Total particulates)	0.5 mg/m ³	CA AB OEL
		TWAEV (in- halable dust)	3 mg/m ³	CA QC OEL
		TWA (inhal- able dust)	0.5 mg/m ³	CA BC OEL
		TWA (Total dust)	3 mg/m ³	CA ON OEL
		TWÁ (inhalable dust)	0.5 mg/m ³	ACGIH
Magnesium stearate	557-04-0	TWA	10 mg/m ³	CA AB OEL
		TWAEV	10 mg/m ³	CA QC OEL
		TWA (Inhal- able)	10 mg/m³	CA BC OEL
		TWA (Res- pirable)	3 mg/m ³	CA BC OEL
		TWA (Inhalable particulate matter)	10 mg/m ³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m³	ACGIH

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 equipment

- Respiratory protection
- If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.



according to the Hazardous Products Regulations

Oxfendazole / Oxyclozanide Formulation

Version 2.2	Revision Date: 09/28/2024		S Number: 2504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021			
Filter type Hand protection		:	: Particulates type				
Material		:	Chemical-resistar	nt 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. 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 or la Additional body g task being perforr disposable suits)	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. degowning techniques to remove potentially			
Hygiene measures		:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. 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.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	white to off-white, light cream, cream
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	Not applicable



Oxfendazole / Oxyclozanide Formulation

Vers 2.2	sion	Revision Date: 09/28/2024		S Number: 2504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	
	Density	/	:	0.88 g/cm ³	
	Solubili Wat	ity(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

according to the Hazardous Products Regulations



Oxfendazole / Oxyclozanide Formulation

2.2 09/28/2024 7942504-00008 Date of first issue: 03/19/2021	Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
	2.2	09/28/2024	7942504-00008	Date of first issue: 03/19/2021

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation							
Skin contact Ingestion Eye contact							
Acute toxicity							
Not classified based on availa	ble	information.					
Product:							
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method					
Components:							
Oxyclozanide:							
Acute oral toxicity	:	LD50 (Rat): 3,519 mg/kg Target Organs: Central nervous system					
Acute toxicity (other routes of administration)	:	LDLo (sheep): 10 mg/kg Application Route: Intravenous					
oxfendazole:							
Acute oral toxicity	:	LD50 (Rat): > 6,000 mg/kg					
		LD50 (Dog): 1,600 mg/kg					
		LD50 (sheep): 250 mg/kg					
Magnesium stearate:							
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity Remarks: Based on data from similar materials					
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Remarks: Based on data from similar materials					
Skin corrosion/irritation							
Not classified based on availa	ble	information.					
Components:							
Oxyclozanide:							
Remarks	:	Not classified due to lack of data.					
oxfendazole:							



according to the Hazardous Products Regulations

Oxfendazole / Oxyclozanide Formulation

Vers 2.2	sion	Revision Date: 09/28/2024		9S Number: 42504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021	
	Species Result	5	:	Rabbit No skin irritation		
	Magne Species Result Remark			Rabbit No skin irritation Based on data fro	m similar materials	
	Serious eye damage/eye irritation Not classified based on available information.					
	Compo	onents:				
	Oxyclo	zanide:				
	Remark	<s< td=""><td>:</td><td>Not classified due</td><td>to lack of data.</td></s<>	:	Not classified due	to lack of data.	
	oxfend	azole:				
	Species Result	5	:	Rabbit No eye irritation		
	Magne	sium stearate:				
	Species Result Remark		:	Rabbit No eye irritation Based on data fro	m similar materials	
	Respira	atory or skin sensitiz	ensitization			
	Skin sensitization Not classified based on available information. Respiratory sensitization					
		ssified based on availa	ble	information.		
	<u>Compo</u>					
	-	zanide: of exposure <s< td=""><td>:</td><td>Dermal Not classified due</td><td>to lack of data.</td></s<>	:	Dermal Not classified due	to lack of data.	
	Test Ty	of exposure		Maximization Test Skin contact Guinea pig OECD Test Guide negative Based on data fro		

Germ cell mutagenicity

Not classified based on available information.



according to the Hazardous Products Regulations

Ver 2.2	sion	Revision Date: 09/28/2024		DS Number: 942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021					
	<u>Comp</u>	onents:								
	Oxycle	ozanide:								
	Genotoxicity in vitro			: Test Type: Bacterial reverse mutation assay (AMES) Result: negative						
				Test Type: Chromosomal aberration Test system: Human lymphocytes Result: positive						
		e Lymphoma								
	Genotoxicity in vivo		:	: Test Type: Micronucleus test Species: Mouse Application Route: Oral Result: negative						
				Test Type: unsch Species: Rat Cell type: Liver of Application Rout Result: negative						
	Germ Assess	cell mutagenicity - sment			ce does not support classification as a germ					
	oxfend	dazole:								
	Genote	oxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)					
	Genote	oxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone- cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Oral Result: positive		chromosomal analysis)					
	Magne	esium stearate:								
	-	oxicity in vitro	:	Result: negative	o mammalian cell gene mutation test on data from similar materials					
				Method: OECD Result: negative	mosome aberration test in vitro Fest Guideline 473 I on data from similar materials					
				Result: negative	erial reverse mutation assay (AMES) on data from similar materials					

according to the Hazardous Products Regulations



sion	Revision Date: 09/28/2024	SDS Number: 7942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
Carcir	nogenicity		
Not cla	assified based on av	ailable information.	
<u>Comp</u>	onents:		
Oxycl	ozanide:		
Remar	rks	: Not classified	due to lack of data.
oxfen	dazole:		
Specie	es	: Rat	
•	ation Route	: Oral	
	ure time	: 1 Years	
Sympt		: No adverse ef	fects.
Target	t Organs	: Liver	
Specie		: Rat	
	ation Route	: Oral	
	ure time	: 2 Years	fo oto
Sympt	oms t Organs	: No adverse ef : Liver	tects.
May da	ductive toxicity amage fertility. May onents:	damage the unborn ch	nild.
-	ozanide:	T a (T a a T	a second to a second setting to the test of the
Effects	s on fertility		o-generation reproduction toxicity study male and female
		Application Ro	
			ity Parent: NOAEL: 25 - 35 mg/kg body weigh
		General Loxic	
		Symptoms: Re	educed body weight, No effects on embryofeta
		Symptoms: Re and postnatal	educed body weight, No effects on embryofeta
		Symptoms: Re and postnatal Result: No effe Test Type: Tw	educed body weight, No effects on embryofeta development.
		Symptoms: Re and postnatal Result: No eff Test Type: Tw Species: Rat	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro	educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study pute: Oral
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic	educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study oute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development.
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study oute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development.
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility.
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro	educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro Early Embryon	educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro Early Embryon weight	educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro Early Embryon weight Result: No fete	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral nic Development: LOAEL: 75 - 100 mg/kg bod btoxicity., No teratogenic effects.
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro Early Embryon weight Result: No fete Test Type: Or	educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility. vo-generation reproduction toxicity study bute: Oral hic Development: LOAEL: 75 - 100 mg/kg bod
		Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro General Toxic Symptoms: Re and postnatal Result: No effe Test Type: Tw Species: Rat Application Ro Early Embryon weight Result: No fete	educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral ity Parent: LOAEL: 75 - 100 mg/kg body weig educed body weight, No effects on embryofet development. ects on fertility. ro-generation reproduction toxicity study bute: Oral hic Development: LOAEL: 75 - 100 mg/kg bod otoxicity., No teratogenic effects. ne-generation reproduction toxicity study

SAFETY DATA SHEET according to the Hazardous Products Regulations



Versi 2.2	on	Revision Date: 09/28/2024	-	9S Number: 42504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
					Parent: LOAEL: 80 - 160 mg/kg body weight cicity., No teratogenic effects., No effects on
E	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. 	
	Reproductive toxicity - As- sessment		:	Suspected of dam	naging the unborn child.
Ċ	oxfend	azole:			
	oxfendazole: Effects on fertility		:	Species: Rat, mal Application Route	: Oral 17 mg/kg body weight estes
				Species: Rat Application Route	0.9 mg/kg body weight ver
					: Oral e Treatment: 1 Months 750 mg/kg body weight estes
E	Effects	on fetal development	:	Species: Rat Application Route	oxicity: NOAEL: 10 mg/kg body weight



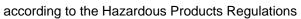
according to the Hazardous Products Regulations

Oxfendazole / Oxyclozanide Formulation

ersion 2	Revision Date: 09/28/2024		9S Number: 42504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
			Species: Rat Developmental	ryo-fetal development Toxicity: NOAEL: 10 mg/kg body weight Embryo-fetal toxicity.
			Species: Mouse Application Rou Developmental	
			Species: Rabbit Application Rou	ryo-fetal development te: Oral Toxicity: NOAEL: 0.625 mg/kg body weigh
Repro sessm	oductive toxicity - As- nent	:	fertility, based o	of adverse effects on sexual function and n animal experiments., Clear evidence of on development, based on animal
Magn	esium stearate:			
Effect	s on fertility	:	reproduction/dev Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422
Effect	s on fetal development	:	Species: Rat Application Rou Result: negative	-
STOT	-single exposure			
-	ause damage to organs	5 (Ce	entral nervous sys	stem) if swallowed.
	<u>oonents:</u>			
-	lozanide:	_	Oral	
Targe	es of exposure et Organs esment	:	Oral Central nervous May cause dam	
стот	-repeated exposure			
		s (Li	ver, Testis, Brain)	through prolonged or repeated exposure.
Comp	oonents:			
	lozanide:			

Oxyclozanide: Target Organs

: Brain, Liver





ersion .2	Revision Date: 09/28/2024	SDS Number:Date of last issue: 09/30/20237942504-00008Date of first issue: 03/19/2021
Asses	sment	: May cause damage to organs through prolonged or repeated exposure.
oxfen	dazole:	
Route	s of exposure	: Oral
	t Organs	: Liver, Testis
Asses	sment	: May cause damage to organs through prolonged or repeate exposure.
Repe	ated dose toxicity	
<u>Comp</u>	oonents:	
Oxyc	ozanide:	
Speci		: Rat
NOAE		: 9 mg/kg
LOAE		: 44.5 mg/kg
	ation Route	: Oral : 3 Months
	t Organs	: Brain, Liver, spleen, Adrenal gland
Symp		: Liver effects
Speci		: Dog
NOAE		: 5 mg/kg
LOAE		: 25 mg/kg
	ation Route	: Oral : 3 Months
	t Organs	: Brain, Liver
Symp		: blood effects, alteration in liver enzymes
oxfen	dazole:	
Speci	es	: Rat
NOAE		: 11 mg/kg
	ation Route	: Oral
	sure time	2 Weeks
Targe	t Organs	: Blood, Liver, Testis
Speci		: Rat
NOAE		: 3.8 mg/kg
	ation Route	: Oral
	sure time	: 3 Months
Targe	t Organs	: Liver, Testis
Speci		: Mouse
NOAE		: 750 mg/kg
	ation Route	: Oral
	sure time t Organs	: 1 Months : Liver
Speci		: Mouse
NOAE		: 37.5 mg/kg
Applic	ation Route	: Oral



according to the Hazardous Products Regulations

Vers 2.2	sion	Revision Date: 09/28/2024	-	OS Number: 42504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
		ure time Organs	:	3 Months Liver	
		- ition Route ure time	::	Dog 6 mg/kg Oral 1 Months No significant adv	rerse effects were reported
	Exposu		:	Dog 11 mg/kg Oral 2 Weeks Lymph nodes, thy	mus gland
	Exposu		:	Dog 13.5 mg/kg Oral 12 Months Liver	
	Specie NOAEL Applica		:	Rat 22,500 mg/kg Ingestion 90 Days	
	Specie NOAEL Applica	- ation Route ure time	:	Rat > 100 mg/kg Ingestion 90 Days Based on data fro	m similar materials
	-	tion toxicity ssified based on availa	able	information.	
	Compo	onents:			
	•	ozanide: olicable			
	Experi	ence with human exp	osi	ire	
	<u>Compo</u>	onents:			
	Oxyclc Ingestic	ozanide: on	:	Symptoms: May c nervous system d	cause, Gastrointestinal disturbance, Central epression

according to the Hazardous Products Regulations



Oxfendazole / Oxyclozanide Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
2.2	09/28/2024	7942504-00008	Date of first issue: 03/19/2021

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:		
Oxyclozanide: Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.69 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
oxfendazole:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 2.7 mg/l Exposure time: 96 h
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 2.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.059 mg/l Exposure time: 48 h Method: OECD 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
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.023 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Magnesium stearate:		
Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h Method: DIN 38412 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 47 h Test substance: Water Accommodated Fraction Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h

SAFETY DATA SHEET according to the Hazardous Products Regulations



Version 2.2	Revision Date: 09/28/2024		DS Number: 142504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
			Method: OECD T	Water Accommodated Fraction est Guideline 201 on data from similar materials limit of solubility.
			mg/l Exposure time: 7 Test substance: \ Method: OECD T	kirchneriella subcapitata (green algae)): > 1 2 h Water Accommodated Fraction est Guideline 201 on data from similar materials
Toxic	Toxicity to microorganisms		Exposure time: 10 Test substance: \	onas putida): > 100 mg/l 6 h Nater Accommodated Fraction on data from similar materials
Persi	stence and degradabi	lity		
Com	ponents:			
-	lozanide: lity in water	:	J J	(156 d) est Guideline 111
	ndazole: lity in water	:	Hydrolysis: < 5 %	o(4 d)
Magn	nesium stearate:			
Biode	egradability	:	Result: Not biode Remarks: Based	gradable on data from similar materials
Bioad	ccumulative potential			
Com	ponents:			
Partit	l ozanide: ion coefficient: n- ol/water	:	log Pow: 3.99 pH: 7 Method: OECD T	est Guideline 107
Partit	n dazole: ion coefficient: n- ol/water	:	log Pow: 1.95	
Partit	nesium stearate: ion coefficient: n- ol/water	:	log Pow: > 4	

according to the Hazardous Products Regulations



Oxfendazole / Oxyclozanide Formulation

Versior 2.2	n Revision Date: 09/28/2024	SDS Number: 7942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021	
M	obility in soil			
<u>Cc</u>	omponents:			
Di	xyclozanide: stribution among environ- ental compartments	5	Test Guideline 106	
Di	t fendazole: stribution among environ- ental compartments	: log Koc: 3.2		
•	t her adverse effects o data available			
SECTI	ON 13. DISPOSAL CONSI	DERATIONS		
Di	sposal 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

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxfendazole, oxyclozanide)
Class		9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	-
Environmentally hazardous	·	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (oxfendazole, Oxyclozanide)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,



according to the Hazardous Products Regulations

Oxfendazole / Oxyclozanide Formulation

Version 2.2	Revision Date: 09/28/2024	SDS Number: 7942504-00008	Date of last issue: 09/30/2023 Date of first issue: 03/19/2021
Class Packing group Labels EmS Code Marine pollutant Transport in bulk accord Not applicable for product		: 9 : III : 9 : F-A, S-F : yes ing to Annex II of M.	, Oxyclozanide) ARPOL 73/78 and the IBC Code
Dome	estic regulation		
	umber er shipping name	N.O.S.	ENTALLY HAZARDOUS SUBSTANCE, SOLID,
Label ERG	ng group s	: 9 : III : 9 : 171	e, Oxyclozanide) cole, Oxyclozanide)

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:						
AICS	:	not determined				
DSL	:	not determined				
IECSC	:	not determined				

SECTION 16. OTHER INFORMATION

Full text of other abbreviati		
ACGIH	USA. ACGIH Threshold Limit Values (TLV)	
CA AB OEL	Canada. Alberta, Occupational Health and Safety Code 2: OEL)	(table
CA BC OEL	Canada. British Columbia OEL	
CA ON OEL	Ontario Table of Occupational Exposure Limits made un the Occupational Health and Safety Act.	nder
CA QC OEL	Québec. Regulation respecting occupational health and ty, Schedule 1, Part 1: Permissible exposure values for borne contaminants	
ACGIH / TWA	8-hour, time-weighted average	



Oxfendazole / Oxyclozanide Formulation

Version	Revision Date:	-	S Number:	Date of last issue: 09/30/2023
2.2	09/28/2024		12504-00008	Date of first issue: 03/19/2021
CA BC CA ON	OEL / TWA OEL / TWA OEL / TWA OEL / TWAEV	:		

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

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/
Revision Date	:	09/28/2024

	•	00/20/2021
Date format	:	mm/dd/yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

according to the Hazardous Products Regulations



Oxfendazole / Oxyclozanide Formulation

Version Revision Date: 2.2 09/28/2024 SDS Number: 7942504-00008 Date of last issue: 09/30/2023 Date of first issue: 03/19/2021

CA / Z8