

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
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## **SECTION 1:** Identification of the substance/mixture and of the company/undertaking

	Product identifier Trade name	:	Oxfendazole / Oxyclozanide Formulation
	Relevant identified uses of th Use of the Sub- stance/Mixture	es :	ubstance or mixture and uses advised against Veterinary medicine
	Recommended restrictions on use	:	Not applicable
1.3 C	Details of the supplier of the s	saf	ety data sheet
	Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
	Telephone	:	+1-908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

### **1.4 Emergency telephone number**

+1-908-423-6000

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.
Specific target organ toxicity - single ex- posure, Category 2	H371: May cause damage to organs.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

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#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:		¥2
Signal word	:	Danger	•
Hazard statements	:	H360FD H371 H373 H410	May damage fertility. May damage the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	<b>Prevention</b> P201 P260 P273 P280 <b>Response:</b> P308 + P31	Obtain special instructions before use. Do not breathe dust. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		P391	Collect spillage.

Hazardous components which must be listed on the label:

oxyclozanide

oxfendazole

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**

#### 3.2 Mixtures

#### Components

EC-No. Index-No. Registration number	Chemical name	Index-No.	Classification	Concentration (% w/w)
--------------------------------------------	---------------	-----------	----------------	--------------------------

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oxyclo	ozanide	2277-92-1 218-904-0	Repr. 2; H361d >= 30 - < STOT SE 2; H371 (Central nervous system) STOT RE 2; H373 (Brain, Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	: 50
	dazole	53716-50-0 258-714-5	Repr. 1B; H360FD >= 20 - < STOT RE 2; H373 (Liver, Testis) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ———— M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	: 25
	ances with a workpla			
Starch	n, oxidized	65996-62-5	>= 10 - <	: 20

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice	vice immediately.	u feel unwell, seek medical ad- all cases of doubt seek medical
Protection of first-aiders	First Aid responders should pa and use the recommended pe when the potential for exposur	rsonal protective equipment
If inhaled	If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	In case of contact, immediately of water. Remove contaminated clothing	y flush skin with soap and plenty g and shoes.



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		Get medical atte Wash clothing b Thoroughly clea	
In cas	e of eye contact	: If in eyes, rinse Get medical atte	well with water. ention if irritation develops and persists.
lf swa	llowed	Get medical atte Rinse mouth the	O NOT induce vomiting. ention. oroughly with water. thing by mouth to an unconscious person.
4.2 Most i	mportant symptoms a	and effects, both acu	ite and delayed
Risks		May cause dam	rtility. May damage the unborn child. hage to organs. hage to organs through prolonged or repeated
		the skin.	st can cause mechanical irritation or drying of the the eyes can lead to mechanical irritation.
4.3 Indica	tion of any immediate	e medical attention a	nd special treatment needed
Treat	ment	: Treat symptoma	atically and supportively.

# **SECTION 5: Firefighting measures**

<b>5.1 Extinguishing media</b> Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	n the	e substance or mixture
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



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5.3 Advid	e for firefighters			
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Specific extinguishing meth- ods		:	cumstances and to Use water spray to	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

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).
6.3 Methods and material for con	tainment 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).

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.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Technical measures

Static electricity may accumulate and ignite suspended dust causing an explosion.

Provide adequate precautions, such as electrical grounding

:

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Local/Total Advice on sa Hygiene me	afe handling	<ul> <li>If sufficient ventilation</li> <li>Do not ge Do not bree Do not sw Avoid con Wash skir Handle in practice, b sessment Keep con Minimize Keep con Keep awa Take prece Do not ea Take care environme</li> <li>If exposur flushing sy place. Wh nated clot The effect engineerin appropriation</li> </ul>	and bonding, or inert atmospheres. If sufficient ventilation is unavailable, use with local exhaust ventilation. 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 as- sessment 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 environment. 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 contami- nated 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	
7.2 Conditions f	or safe storage,	including any	incompatibilities	
Requiremen areas and c	nts for storage ontainers	: Keep in properly labelled containers. Store locked u tightly closed. Store in accordance with the particula regulations.		
Advice on c	ommon storage	Strong ox		
7.3 Specific end	use(s)			
Specific use		: No data a	vailable	

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# **Occupational Exposure Limits**

dust of any kind

#### 10 mg/m3 Value type (Form of exposure): TWA (Inhalable)

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Basis: GB EH40

4 mg/m3

Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form of exposure)	Control parameters	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 cm²	Internal		
Starch, oxidized	65996-62-5	TWA (inhalable dust)	10 mg/m3	GB EH40		
	Further information: Capable of causing occupational asthma.					
	STEL (inhalable dust)		30 mg/m3	GB EH40		
	Further information: Capable of causing occupational asthma.					

### 8.2 Exposure controls

### 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

:	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.	
:	Chemical-resistant gloves	
:	Consider double gloving. 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.	
:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143 Particulates type (P)	
	: : : : : : : : : : : : : : : : : : : :	



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## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder white to off-white, light cream, cream No data available 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, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	0.88 g/cm <sup>3</sup>
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	No data available Not applicable No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

#### 9.2 Other information

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Flam	mability (liquids)	: Not applicable	
Moleo	cular weight	: No data availa	ble

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

azardous reactions	:	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
conditions to avoid		
conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
ncompatible materials		
laterials to avoid	:	Oxidizing agents
	conditions to avoid onditions to avoid ncompatible materials	conditions to avoid onditions to avoid : ncompatible materials

# **10.6 Hazardous decomposition products**

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

<b>11.1 Information on toxicological</b> Information on likely routes of exposure		
Acute toxicity		
Not classified based on availa	ble	information.
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
<b>oxfendazole:</b> Acute oral toxicity	:	LD50 (Rat): > 6,000 mg/kg
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			4.000 "
		LD50 (Dog):	
		LD50 (sheep	): 250 mg/kg
-	corrosion/irritation		
	lassified based on ava	ailable information.	
	oonents:		
oxyci Rema	l <b>ozanide:</b> arks	: Not classified	due to lack of data.
	idazole:	. Dobbit	
Speci Resul		: Rabbit : No skin irrita	tion
Not cl	us eye damage/eye lassified based on ava		
	<u>oonents:</u>		
oxyci Rema	l <b>ozanide:</b> arks	: Not classified	d due to lack of data.
oxfen	idazole:		
Speci Resul		: Rabbit : No eye irritat	ion
Resp	iratory or skin sensi	tisation	
	sensitisation lassified based on ava	ailable information.	
-	iratory sensitisation assified based on ava		
	oonents:		
	ozanide:		
-	sure routes	: Dermal : Not classified	d due to lack of data.
	<b>cell mutagenicity</b> assified based on ava	ailable information.	
	oonents:		
	ozanide:		
-	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		10 /	22

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			Toot Type: Chro	macamal charaction
				mosomal aberration Iman lymphocytes
			Test Type: Mou Result: positive	se Lymphoma
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Application Rou	te: Oral
			Result: negative	
			Species: Rat	heduled DNA synthesis assay
			Cell type: Liver of Application Rou Result: negative	te: Oral
Germ sessn	cell mutagenicity- As- nent	:	Weight of evider cell mutagen.	nce does not support classification as a germ
oxfen	dazole:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	vo : Test Type: Mutagenicity (in vivo mamm cytogenetic test, chromosomal analysis Species: Mouse Application Route: Oral Result: positive		
Carci	nogenicity			
Not cl	assified based on availa	able	information.	
<u>Comp</u>	oonents:			
-	ozanide:			
Rema	ırks	:	Not classified du	ue to lack of data.
oxfen	dazole:			
Speci		:	Rat	
	cation Route	:		
Expos	sure time	÷	: 1 Years : No adverse effects	
	t Organs	:	Liver	
Speci		:	Rat	
Applic	ation Route	:	: Oral	
Expos Symp	sure time	: 2 Years : No adverse effects		
			UNU AUVEISE EILE	

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Targe	et Organs	: Liver	
May	<b>oductive toxicity</b> damage fertility. May da <b>ponents:</b>	amage the unborn ch	ild.
	lozanide:		
-	ts on fertility	Species: Rat, Application Ro General Toxic	ity - Parent: NOAEL: 25 - 35 mg/kg body weight educed body weight, No effects on embryofoetal development
		Species: Rat Application Ro General Toxic weight	ity - Parent: LOAEL: 75 - 100 mg/kg body educed body weight, No effects on embryofoetal development
		Species: Rat Application Ro Early Embryor weight	o-generation reproduction toxicity study oute: Oral hic Development: LOAEL: 75 - 100 mg/kg body otoxicity, No teratogenic effects
		Species: Rat Application Ro General Toxic weight	e-generation reproduction toxicity study oute: Oral ity - Parent: LOAEL: 80 - 160 mg/kg body otoxicity, No teratogenic effects, No effects on
Effec ment	ts on foetal develop-		
		Test Type: De	velopment

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Repro sessr	oductive toxicity - As- nent	: Suspected of	damaging the unborn child.
oxfer	ndazole:		
Effec	Effects on fertility		ertility/early embryonic development , male oute: Oral .EL: 17 mg/kg body weight is: Testes is on fertility
		Species: Rat Application R Fertility: NOA Target Orgar	EL: 0.9 mg/kg body weight
			use oute: Oral ingle Treatment: 1 Months .EL: 750 mg/kg body weight is: Testes
Effec ment	ts on foetal develop-	Species: Rat Application R Development	mbryo-foetal development oute: Oral al Toxicity: NOAEL: 10 mg/kg body weight ve, Fetal effects
		Species: Rat Development	mbryo-foetal development al Toxicity: NOAEL: 10 mg/kg body weight ve, Embryo-foetal toxicity
		Species: Mou Application R Development	
		Species: Rab Application R	



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Repro sessr	oductive toxicity - As- nent	:	ity, based on anir	f adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments.
	- single exposure			
May o	cause damage to organ	IS.		
<u>Com</u>	ponents:			
oxyc	lozanide:			
Targe	sure routes et Organs ssment	:	Oral Central nervous s May cause dama	
	<b>- repeated exposure</b> cause damage to organ	is thre	ough prolonged or	repeated exposure.
Com	ponents:			
oxyc	lozanide:			
	et Organs ssment	:	Brain, Liver May cause dama exposure.	ge to organs through prolonged or repeated
oxfer	ndazole:			
Targe	sure routes et Organs ssment		Oral Liver, Testis May cause dama exposure.	ge to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	oonents:			
oxyc	lozanide:			
Speci NOAI LOAE Applic Expos	es EL EL cation Route sure time et Organs	:	Rat 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, splee Liver effects	en, Adrenal gland
Expo	EL EL cation Route sure time et Organs	:	Dog 5 mg/kg 25 mg/kg Oral 3 Months Brain, Liver blood effects, alte	eration in liver enzymes

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oxfe	ndazole:		
Expo		: Rat : 11 mg/kg : Oral : 2 Weeks : Blood, Liver, Te	estis
Expo		: Rat : 3.8 mg/kg : Oral : 3 Months : Liver, Testis	
Expo		: Mouse : 750 mg/kg : Oral : 1 Months : Liver	
Expo		: Mouse : 37.5 mg/kg : Oral : 3 Months : Liver	
	EL ication Route osure time	: Dog : 6 mg/kg : Oral : 1 Months : No significant a	dverse effects were reported
Expo		: Dog : 11 mg/kg : Oral : 2 Weeks : Lymph nodes, t	thymus gland
Expo		: Dog : 13.5 mg/kg : Oral : 12 Months : Liver	
Spec NOA Appl		: Rat : 22,500 mg/kg : Ingestion : 90 Days	

# Aspiration toxicity

Not classified based on available information.

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<u>Com</u>	ponents:		
oxycl	lozanide:		
Not a	pplicable		
•	rience with human e	exposure	
<u>Com</u> j	ponents:	exposure	
<u>Com</u> j		exposure	

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

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
M-Factor (Acute aquatic tox- icity)	:	1
M-Factor (Chronic aquatic toxicity)	:	1
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
M-Factor (Acute aquatic tox- icity)	:	10

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а		v to daphnia and other invertebrates (Chron- ity)		Exposure time: 2 <sup>°</sup> Species: Daphnia	
	M-Fact	or (Chronic aquatic )	:	1	
12.2 F	Persis	tence and degradabil	ity		
<u>C</u>	Compo	onents:			
o	oxyclo	zanide:			
S	Stability	y in water	:	Hydrolysis: 50 %( Method: OECD T	(156 d) est Guideline 111
o	oxfend	azole:			
S	Stability	y in water	:	Hydrolysis: < 5 %	b(4 d)
12.3 E	Bioaco	umulative potential			
<u>c</u>	Compo	onents:			
F	-	<b>zanide:</b> n coefficient: n- /water	:	log Pow: 3.99 pH: 7 Method: OECD T	est Guideline 107
F	<b>exfend</b> Partition Partinol	n coefficient: n-	:	log Pow: 1.95	
12.4 N	Mobilit	y in soil			
<u>C</u>	Compo	onents:			
C	Distribu	zanide: ition among environ- compartments	:		est Guideline 106
D	Distribu	azole: Ition among environ- compartments	:	log Koc: 3.2	
12.5 F	Result	s of PBT and vPvB a	sse	ssment	
<u>P</u>	Produc	<u>&gt;t:</u>			
Δ	∖ssess	ment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of

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#### 12.6 Other adverse effects

### Product:

Endocrine disrupting poten- tial	:	This substance/mixture does not contain components consid- ered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).
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### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>Do not dispose of waste into sewer.</li> </ul>
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**

### 14.1 UN number

ADN	: UN 3077
ADR	: UN 3077
RID	: UN 3077
IMDG	: UN 3077
ΙΑΤΑ	: UN 3077
14.2 UN proper shipping	name
ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxfendazole, oxyclozanide)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxfendazole, oxyclozanide)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxfendazole, oxyclozanide)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (oxfendazole, oxyclozanide)
ΙΑΤΑ	: Environmentally hazardous substance, solid, n.o.s. (oxfendazole, oxyclozanide)

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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14.3 Trans	sport hazard class(es)		
		Class	Subsidiary risks
ADN		: 9	
ADR		: 9	
RID		: 9	
IMDG	i	: 9	
ΙΑΤΑ		: 9	
4.4 Pack	ing group		
<b>ADN</b> Packi Class	ng group ification Code rd Identification Number	: III : M7 : 90 : 9	
Class Hazaı Label	ng group ification Code rd Identification Number s el restriction code	: III : M7 : 90 : 9 : (-)	
Class	ng group ification Code rd Identification Number s	: III : M7 : 90 : 9	
<b>IMDG</b> Packi Label EmS	ng group s	: III : 9 : F-A, S-F	
<b>IATA</b> Packi aircra	<b>(Cargo)</b> ng instruction (cargo ft)	: 956	
	ng instruction (LQ) ng group s	: Y956 : III : Miscellaneous	
Packi ger ai	(Passenger) ng instruction (passen- rcraft)	: 956	
Packi	ng instruction (LQ) ng group	: Y956 : III : Miscellaneous	
4.5 Envir	onmental hazards		
<b>ADN</b> Enviro <b>ADR</b>	onmentally hazardous	: yes	

# According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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Enviro	onmentally hazardous	: yes	
<b>RID</b> Environmentally hazardous		: yes	
IMDG Marine pollutant		: yes	
IATA (Passenger) Environmentally hazardous		: yes	
	(Cargo) onmentally hazardous	: yes	

### 14.6 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.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks

: Not applicable for product as supplied.

# **SECTION 15: Regulatory information**

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (A	Annex 17)	:	Not applicable	
UK REACH Candidate list of sub concern (SVHC) for Authorisatio	, ,	:	Not applicable	
The Persistent Organic Pollutan Regulation (EU) 2019/1021 as a ain)	ts Regulations (retained	:	Not applicable	
Regulation (EC) on substances	that deplete the ozone	:	Not applicable	
UK REACH List of substances s (Annex XIV)	ubject to authorisation	:	Not applicable	
GB Export and import of hazard Informed Consent (PIC) Regulat		:	Not applicable	
Control of Major Accident Hazar	ds Regulations 2015 (CC	OMA	.H)	
			Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS		100 t	200 t

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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The c AICS	• •	roduct are reported : not determine	<b>d in the following inventories:</b> ed		
DSL		: not determine	ed		
IECS	с	: not determine	ed		
15.2 Cher	nical safety assessm	ent			
A Chemica	al Safety Assessment	has not been carried	l out.		
SECTION	N 16: Other informa	tion			
Other	r information		changes have been made to the previous version ed in the body of this document by two vertical		
Full t	ext of H-Statements				
H360			fertility. May damage the unborn child.		
H371	H361d H371		<ul> <li>Suspected of damaging the unborn child.</li> <li>May cause damage to organs if swallowed.</li> </ul>		
H373		: May cause d	: May cause damage to organs through prolonged or repeated		
H400		· Very toxic to	aquatic life		
H410			<ul><li>Very toxic to aquatic life.</li><li>Very toxic to aquatic life with long lasting effects.</li></ul>		
Full t	ext of other abbrevia	tions			
Aqua	tic Acute	: Short-term (a	icute) aquatic hazard		
•	tic Chronic		: Long-term (chronic) aquatic hazard		
Repr. STOT		: Reproductive	e toxicity et organ toxicity - repeated exposure		
STO			et organ toxicity - repeated exposure		
GB E			EL - Workplace Exposure Limits		
	H40 / TWA		posure limit (8-hour TWA reference period)		
	H40 / STEL		xposure limit (15-minute reference period)		
Wate Road ing of tion ( of the Europ assoc cy So socia	rways; ADR - Agreer ; AIIC - Australian Inv f Materials; bw - Body EC) No 1272/2008; C e German Institute for bean Chemicals Agen- ciated with x% response chedule; ENCS - Exist ted with x% growth ra	nent concerning the entory of Industrial C weight; CLP - Class MR - Carcinogen, M Standardisation; DS cy; EC-Number - Eu se; ELx - Loading ra ng and New Chemi ate response; GHS	ernational Carriage of Dangerous Goods by Inland e International Carriage of Dangerous Goods by Chemicals; ASTM - American Society for the Test- sification Labelling Packaging Regulation; Regula- lutagen or Reproductive Toxicant; DIN - Standard SL - Domestic Substances List (Canada); ECHA - uropean Community number; ECx - Concentration te associated with x% response; EmS - Emergen- cal Substances (Japan); ErCx - Concentration as- - Globally Harmonized System; GLP - Good La- 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 popula-



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tion; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

#### **Further information**

compile the Safety Data Sheet

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Classification of the mixture:		Classification procedure:
Repr. 1B	H360FD	Calculation method
STOT SE 2	H371	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.

### GB / EN