

Ver 5.0	sion	Revision Date: 06.07.2024		DS Number: 857726-00008	Date of last issue: 16.05.2024 Date of first issue: 29.09.2022			
SE	SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1		t identifier						
	Trade I	name	:	Levamisole (6.5%	b) / Oxyclozanide (13%) Formulation			
	Other r	means of identification	:	COOPERS NILZ	AN LV ORAL DRENCH (36089)			
1.2	Relevar	nt identified uses of t	he s	substance or mixt	ure and uses advised against			
	Use of	the Sub- /Mixture	:		_			
	Recom on use	mended restrictions	:	Not applicable				
1.3	Details	of the supplier of the	saf	ety data sheet				
	Compa	••	:	MSD				
	Compe	y	•	20 Spartan Road 1619 Spartan, So	buth Africa			
	Teleph	one	:	+27119239300				
		address of person sible for the SDS	:	EHSDATASTEW	ARD@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)

Serious eye damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 2 Specific target organ toxicity - repeated exposure, Category 2 Long-term (chronic) aquatic hazard, Category 2 H318: Causes serious eye damage. H361d: Suspected of damaging the unborn child. H371: May cause damage to organs.

H373: May cause damage to organs through prolonged or repeated exposure. H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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ł	Hazard	pictograms	:		E E
5	Signal	word	: [	Danger	
ŀ	Hazard	statements	H H F r	H361d Suspected H371 May cause H373 May cause repeated exposure	rious eye damage. of damaging the unborn child. damage to organs. damage to organs through prolonged or juatic life with long lasting effects.
F	Precau	tionary statements	F	P273 Avoid relea	cial instructions before use. ase to the environment. active gloves/ protective clothing/ eye protec- n.
			F v F F	with water for seve sent and easy to de POISON CENTER	exposed or concerned: Call a POISON
ŀ	Hazard	ous components whic	h mu	st be listed on the	label:

oxyclozanide Silicic acid, aluminum salt levamisole hydrochloride

### 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.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
oxyclozanide	2277-92-1 218-904-0	Repr. 2; H361d STOT SE 2; H371 (Central nervous system) STOT RE 2; H373	>= 10 - < 20



ersion .0	Revision Date: 06.07.2024	SDS Number: 10857726-00008	Date of last issue: 16.05.2024 Date of first issue: 29.09.2022	
			(Brain, Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	0 10
Silicic	acid, aluminum salt	1335-30-4 215-628-2	Eye Dam. 1; H318	>= 3 - < 10
levam	isole hydrochloride	16595-80-5 240-654-6	Acute Tox. 3; H301 Repr. 2; H361d STOT RE 2; H373 (Blood, Testis) Aquatic Chronic 3; H412	>= 3 - < 10
Citric	acid	77-92-9 201-069-1 607-750-00	Eye Irrit. 2; H319 STOT SE 3; H335 -3	>= 1 - < 10

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice :	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders :	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
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 :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.



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If swallowed		<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>				
4.2 Most i	mportant symptoms a	nd e	effects, both acu	te and delayed		
Risks		:	May cause dam	maging the unborn child.		
<b>4.3 Indica</b> Treat	-	meo :		nd special treatment needed trically and supportively.		
SECTION	I 5: Firefighting meas	sur	es			
5 1 Extino	uishing media					
-	ble extinguishing media	:	Water spray Alcohol-resistan Carbon dioxide Dry chemical			
Unsui media	itable extinguishing a	:	None known.			
5.2 Specia	al hazards arising from	the	e substance or m	nixture		
Speci fightir	fic hazards during fire-	:	Exposure to con	nbustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides Chlorine compo Nitrogen oxides			
5.3 Advice	e for firefighters					
Speci	al protective equipment efighters	:		re, wear self-contained breathing apparatus. otective equipment.		
Speci ods	fic extinguishing meth-	:	cumstances and Use water spray	ng measures that are appropriate to local cir- I the surrounding environment. I to cool unopened containers. aged containers from fire area if it is safe to d		



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### **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 protective 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. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. 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	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section	
Local/Total ventilation	Use only with adequate ventilation.	
Advice on safe handling	Do not breathe mist or vapours.	
	Do not swallow.	
	Do not get in eyes.	
	Avoid prolonged or repeated contact with skin.	
	Wash skin thoroughly after handling.	
	Handle in accordance with good industrial hygi	ene and safety
	practice, based on the results of the workplace	exposure as-
	sessment	
	Keep container tightly closed.	
	Do not eat, drink or smoke when using this pro	duct.



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Hygiene measures		:	<ul> <li>Take care to prevent spills, waste and minimize release to the environment.</li> <li>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.</li> <li>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.</li> </ul>			
7.2 Conditi	ons for safe storage,	inc	luding any incom	patibilities		
	ements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national		
Advice	on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents		
-	<b>c end use(s)</b> c use(s)	:	No data available			

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

### 8.1 Control parameters

### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
oxyclozanide	2277-92-1	TWA	0.4 mg/m3 (OEB 2)	Internal
levamisole hydro- chloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Silicic acid, aluminum salt	Workers	Ingestion	Long-term systemic effects	3 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Citric acid	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	34,6 mg/kg dry weight (d.w.)



0,082 mg/l

### Levamisole (6.5%) / Oxyclozanide (13%) Formulation

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		Marine sedime	nt	3,46 mg/kg dry weight (d.w.)
		Soil		33,1 mg/kg dry weight (d.w.)
Silic	cic acid, aluminum salt	Fresh water		4,1 mg/l
		Freshwater - in	termittent	25 mg/l

Marine water

#### 8.2 Exposure controls

#### **Engineering measures**

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

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

Eye/face protection	:	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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	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.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type (P)
т шет туре	•	r articulates type (r)

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

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

Appearance	: suspension
Colour	: yellow
Odour	: No data available
Odour Threshold	: No data available
рН	: No data available



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	Melting	point/freezing point	:	No data available	)
		oiling point and boiling	:	No data available	9
	range Flash p	oint	:	No data available	9
	Evapor	ation rate	:	No data available	)
	Flamma	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	)
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available	2
	Density	,	:	No data available	2
	Partition octanol	er solubility n coefficient: n- /water	:	No data available Not applicable	
	-	nition temperature	:	No data available	
		position temperature	:	No data available	)
	Viscosi Visc	ty osity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
9.2	Other in	formation			
	Flamma	ability (liquids)	:	No data available	)
	Molecu	lar weight	:	No data available	9
	Particle	size	:	Not applicable	

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Not classified as a reactivity hazard.



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10.2 Cher	nical stability			
Stabl	e under normal condition	s.		
10.3 Poss	bility of hazardous rea	octio	ons	
Haza	rdous reactions	:	Can react with st	trong oxidizing agents.
10.4 Cond	ditions to avoid			
Cond	litions to avoid	:	None known.	
10.5 Incoi	mpatible materials			
Mate	rials to avoid	:	Oxidizing agents	
10.6 Haza	rdous decomposition p	oroc	lucts	
	azardous decomposition			
SECTION	N 11: Toxicological in	for	mation	
	-			
	mation on toxicologica			
	nation on likely routes of	:	Inhalation Skin contact	
expos	Suic		Ingestion	
			Eye contact	
	<b>e toxicity</b> lassified based on availa	hlo	information	
		DIE		
Prod	e oral toxicity	:	Acute toxicity esti	mate: > 2.000 mg/kg
Acuit	oral toxicity	•	Method: Calculati	
Com	ponents:			
oxvc	lozanide:			
-	e oral toxicity	:	LD50 (Rat): 3.519	
				entral nervous system
	e toxicity (other routes of nistration)	:	LDLo (sheep): 10 Application Route	
dami	notrationy			
Silici	c acid, aluminum salt:			
Acute	e oral toxicity	:	LD50 (Rat, femal	e): > 2.000 mg/kg
			Method: OECD T Assessment: The icity	est Guideline 423 substance or mixture has no acute oral tox-
Acute	e dermal toxicity	:	LD50 (Rabbit): >	
	-		Remarks: Based	on data from similar materials
	ningle hydroghleride.			

### levamisole hydrochloride:



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Acute	oral toxicity	: LD50 (Rat): 180 mg/kg	
		LD50 (Mouse): 223 mg/kg	
		LD50 (Rabbit): 458 mg/kg	
Acute	inhalation toxicity	: Remarks: No data available	
Acute	dermal toxicity	: Remarks: No data available	
Citric	acid:		
Acute	oral toxicity	: LD50 (Mouse): 5.400 mg/kg	
Acute	dermal toxicity	<ul> <li>LD50 (Rat): &gt; 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute der toxicity</li> </ul>	
-	corrosion/irritation		
	assified based on ava	able information.	
<u>Comp</u>	oonents:		
-	ozanide:		
Rema	rks	: Not classified due to lack of data.	
Silicio	c acid, aluminum sal		
Specie		: Rabbit	
Metho Result		: OECD Test Guideline 404 : No skin irritation	
Rema		: Based on data from similar materials	
rtonia			
	isole hydrochloride:		
Rema	rks	: No data available	
Citric	acid:		
Specie		: Rabbit	
Metho	-	: OECD Test Guideline 404	
Result	τ	: No skin irritation	
Serio	us eye damage/eye i	itation	
Cause	es serious eye damage		
Comp	oonents:		
oxycl	ozanide:		
-		: Not classified due to lack of data.	



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Specie Metho		:	Chicken eye Chorioallantoic r	nembrane vascularization assay
Result	t	:	Irreversible effect	ets on the eye
levam	isole hydrochloride	<b>:</b> :		
Rema	rks	:	No data available	e
Citric	acid:			
Specie	es	:	Rabbit	
Metho	d	:	OECD Test Guid	deline 405
Result	t	:	Irritation to eyes,	, reversing within 21 days
Respi	ratory or skin sensi	itisatio	on	
	sensitisation			
Not cla	assified based on ava	ailable	information.	
-	ratory sensitisation			
Not cla	assified based on ava	ailable	information.	
<u>Comp</u>	onents:			
-	ozanide:			
Expos Rema	ure routes rks	:	Dermal Not classified du	e to lack of data.
Silicio	acid, aluminum sa	lt:		
Test T		:	Local lymph nod	e assav (LLNA)
	ure routes	÷	Skin contact	
Specie		:	Mouse	
Metho		:	OECD Test Guid	deline 429
Result	t	:	negative	
levam	isole hydrochloride	<b>:</b>		
Rema	rks	:	No data available	e
Germ	cell mutagenicity			
	assified based on ava	ailable	information.	
<u>Comp</u>	onents:			
oxycle	ozanide:			
-	oxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Chro Test system: Hu	mosomal aberration man lymphocytes



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				Test Type: Mouse Result: positive	e Lymphoma
	Genoto	oxicity in vivo	:	Test Type: Micron Species: Mouse Application Route Result: negative	
				Test Type: unscho Species: Rat Cell type: Liver ce Application Route Result: negative	
	Germ o sessme	cell mutagenicity- As- ent	:	Weight of evidenc cell mutagen.	e does not support classification as a germ
	Silicic	acid, aluminum salt:			
		oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Result: negative	osome aberration test in vitro
	Genoto	oxicity in vivo	:	cytogenetic test, c Species: Rat Application Route Result: negative	enicity (in vivo mammalian bone-marrow chromosomal analysis) : Ingestion on data from similar materials
	10.000				
		sole hydrochloride: oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Chrom Result: negative	osome aberration test in vitro
	Citric a	acid:			
		oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: in vitro Result: positive	micronucleus test
				Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
	Genoto	oxicity in vivo	:		enicity (in vivo mammalian bone-marrow chromosomal analysis)



ersion 0	Revision Date: 06.07.2024	SDS Number: 10857726-00008	Date of last issue: 16.05.2024 Date of first issue: 29.09.2022
		Species: Rat Application Ro Result: negativ	
	<b>nogenicity</b> lassified based on av	ailable information.	
Com	oonents:		
oxycl	lozanide:		
Rema	arks	: Not classified of	lue to lack of data.
Silici	c acid, aluminum sa	alt:	
Speci	es	: Rat	
	cation Route	: Ingestion	
	sure time	: 104 weeks	
Resu	lt	: negative	
Rema	arks	: Based on data	from similar materials
levan	nisole hydrochlorid	e:	
Speci	es	: Mouse	
Applic	cation Route	: Oral	
	sure time	: 2 Years	
NÓAE		: 80 mg/kg body	
Rema	arks	: No significant a	adverse effects were reported
Speci	es	: Rat	
Applic	cation Route	: Oral	
	sure time	: 2 Years	
NOAE		: 40 mg/kg body	
Rema	arks	: No significant a	adverse effects were reported
Repro	oductive toxicity		
	ected of damaging th	e unborn child.	
	oonents:		
-	lozanide:		
Effect	ts on fertility	Species: Rat, r	p-generation reproduction toxicity study nale and female
			ute: Oral ty - Parent: NOAEL: 25 - 35 mg/kg body weig duced body weight, No effects on embryofoe
		and postnatal o Result: No effe	development
		Species: Rat	p-generation reproduction toxicity study
			ute: Oral ty - Parent: LOAEL: 75 - 100 mg/kg body
		weight	duced body weight, No effects on embryofoe



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		and postnatal de Result: No effect:	
		Species: Rat Application Route Early Embryonic weight	generation reproduction toxicity study e: Oral Development: LOAEL: 75 - 100 mg/kg body xicity, No teratogenic effects
		Species: Rat Application Route General Toxicity weight	generation reproduction toxicity study e: Oral - Parent: LOAEL: 80 - 160 mg/kg body xicity, No teratogenic effects, No effects on
Effects ment	Effects on foetal develop- ment		
Reprod sessme	luctive toxicity - As- ent	: Suspected of dar	maging the unborn child.
	acid, aluminum salt: on foetal develop-	Species: Rat Application Route Result: negative	yo-foetal development e: Ingestion on data from similar materials
	sole hydrochloride:		
Effects	on fertility	Species: Rat Application Route	e-generation reproduction toxicity study e: Oral icant adverse effects were reported
Effects	on foetal develop-	: Test Type: Embr	yo-foetal development



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ment		Species: Rat Application Ro Developmenta Result: Fetoto	al Toxicity: NOAEL: 20 mg/kg body weight
		Species: Rabb Application Ro	oute: Oral al Toxicity: LOAEL: 40 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	: Some evidence animal experir	e of adverse effects on development, based o nents.
Citric	c acid:		
	ts on foetal develop-	: Test Type: Or Species: Rat Application Ro Result: negati	
	<b>Γ - single exposure</b> cause damage to orgar	IS.	
Com	ponents:		
охус	lozanide:		
Targe	sure routes et Organs ssment	: Oral : Central nervou : May cause da	us system mage to organs.
Citric	c acid:		
Asse	ssment	: May cause res	spiratory irritation.
STO	Γ - repeated exposure		
			l or repeated exposure.
Com	ponents:		
охус	lozanide:		
	et Organs ssment	<ul><li>Brain, Liver</li><li>May cause da exposure.</li></ul>	mage to organs through prolonged or repeate
levar	nisole hydrochloride:		
	et Organs	: Blood, Testis	



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	Repeated dose toxicity							
	Components:							
	Specie		:	Rat				
	NOAEL LOAEL		:	9 mg/kg 44,5 mg/kg				
		ation Route ure time	:	Oral 3 Months				
	Target	Organs	:	Brain, Liver, splee	en, Adrenal gland			
	Sympto	oms	:	Liver effects				
	Specie NOAEL		:	Dog 5 mg/kg				
	LOAEL		÷	5 mg/kg 25 mg/kg				
		ation Route	:	Oral				
		ure time Organs	:	3 Months Brain, Liver				
	Sympto		:		ration in liver enzymes			
	Silicic	acid, aluminum salt:						
	Specie		:	Rat				
	NOAEL	- ation Route	:	> 100 mg/kg Ingestion				
		ure time		104 Weeks				
	Remar	ks	:	Based on data fro	m similar materials			
		sole hydrochloride:						
	Specie: NOAEL		:	Rat 2,5 mg/kg				
		- ation Route	÷	Oral				
	Exposu	ure time	:	18 Months				
	Target	Organs	:	Testis				
	Specie LOAEL		:	Dog 20 mg/kg				
		- ation Route	÷	20 mg/kg Oral				
	Exposu	ure time	:	18 Months				
	Target	Organs	:	Blood				
	Specie: LOAEL	S	:	Dog 40 mg/kg				
		- ation Route	÷	Oral				
		ure time	:	3 Months				
	Citric a	acid:						
	Specie		:	Rat				
	NOAEL LOAEL		:	4.000 mg/kg 8.000 mg/kg				
		- ation Route	÷	Ingestion				
		ure time	:	10 Days				



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-	ation toxicity assified based on ava	ilable information	
	oonents:		
	ozanide:		
-	pplicable		
-	rience with human e	xposure	
	ozanide:		
Inges		: Symptoms: May nervous system	cause, Gastrointestinal disturbance, Central depression
levan	nisole hydrochloride	:	
Inges	tion	: Symptoms: Nau tension	sea, Vomiting, Headache, Dizziness, hypo-
ECTION	I 12: Ecological inf	ormation	

### 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
Silicic acid, aluminum salt:		
Ecotoxicology Assessment Chronic aquatic toxicity	:	No toxicity at the limit of solubility
levamisole hydrochloride:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 37,3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 64 mg/l Exposure time: 48 h Method: OECD Test Guideline 202



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Cit	ric acid:					
Toxicity to fish		:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): > 100 mg/l 6 h		
	kicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.535 mg/l Exposure time: 24 h			
12.2 Pe	rsistence and degradabi	lity				
	mponents:	•				
	clozanide:					
	bility in water	:	Hydrolysis: 50 % Method: OECD T	(156 d) est Guideline 111		
Cit	ric acid:					
Bic	degradability	:	Biodegradation: Exposure time: 2	97 %		
12 3 Bi	paccumulative potential					
	-					
	mponents:					
Pa	<b>yclozanide:</b> rtition coefficient: n- anol/water	:	log Pow: 3,99 pH: 7 Method: OECD T	est Guideline 107		
Cit	ric acid:					
Pa	rtition coefficient: n- anol/water	:	log Pow: -1,72			
12.4 Mo	bility in soil					
<u>Co</u>	mponents:					
Dis	<b>yclozanide:</b> tribution among environ- ntal compartments	:	log Koc: 4,83 Method: OECD T	est Guideline 106		
12.5 Re	12.5 Results of PBT and vPvB assessment					
Product:						
Assessment		:	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.			



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12.6 Othe	12.6 Other adverse effects				

### Product:

Endocrine disrupting poten- tial	:	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
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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	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **SECTION 14:** Transport information

#### 14.1 UN number

ADN	: UN 3082
ADR	: UN 3082
RID	: UN 3082
IMDG	: UN 3082
ΙΑΤΑ	: UN 3082
14.2 UN proper shipping name	
ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxyclozanide)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxyclozanide)
RID	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxyclozanide)
IMDG	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxyclozanide)
ΙΑΤΑ	: Environmentally hazardous substance, liquid, n.o.s. (oxyclozanide)

### SAFETY DATA SHEET



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14.3 Tra	14.3 Transport hazard class(es)						
		Class	Subsidiary risks				
AD	N	: 9	-				
AD	R	: 9					
RIC	)	: 9					
IME	DG	: 9					
ΙΑΤ	A	: 9					
14.4 Pa	cking group						
Cla	cking group ssification Code zard Identification Number	: III : M6 : 90 : 9					
Cla Haz Lab	<b>R</b> cking group ssification Code zard Identification Number pels nnel restriction code	: III : M6 : 90 : 9 : (-)					
Cla	cking group ssification Code zard Identification Number	: III : M6 : 90 : 9					
Lab	<b>DG</b> cking group bels S Code	: III : 9 : F-A, S-F					
Pac	<b>A (Cargo)</b> cking instruction (cargo	: 964					
Pac	craft) cking instruction (LQ) cking group pels	: Y964 : III : Miscellaneous					
Pac	A (Passenger) cking instruction (passen- aircraft)	: 964					
Pac	cking instruction (LQ) cking group	: Y964 : III : Miscellaneous					
14.5 En	vironmental hazards						
<b>AD</b> Env	<b>N</b> /ironmentally hazardous	: yes					
<b>AD</b> Env	<b>R</b> vironmentally hazardous	: yes					



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<b>RID</b> Environmentally hazardous		:	yes	
IMDG Marine pol IATA (Pas		:	yes	

#### IATA (Cargo)

Environmentally hazardous : yes

#### 14.6 Special precautions for user

Environmentally hazardous

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

: yes

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

#### The components of this product are reported in the following inventories:

AICS	•	not determined
DSL	:	not determined
IECSC	:	not determined

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

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

#### Full text of H-Statements

H301 :	Toxic if swallowed.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H335 :	May cause respiratory irritation.
H361d :	Suspected of damaging the unborn child.
H371 :	May cause damage to organs if swallowed.
H373 :	May cause damage to organs through prolonged or repeated
	exposure.
H373 :	May cause damage to organs through prolonged or repeated



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H400 H410 H412		:	exposure if swallowed. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.				
Full text of other abbreviations							
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Repr. STOT RE STOT SE			Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Serious eye damage Eye irritation Reproductive toxicity Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure				

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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: 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; 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

Sources of key data used to : compile the Safety Data Sheet

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



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Class	sification of the mixt	Classification procedure:	
Eye Dam. 1		H318	Calculation method
Repr. 2		H361d	Calculation method
STOT SE 2		H371	Calculation method
STOT RE 2		H373	Calculation method
Aquatic Chronic 2		H411	Calculation method

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

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.

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