

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
7.1	2024/09/28	10857724-00010	Date of first issue: 2022/09/29

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Levamisole (6.5%) / Oxyclozanide (13%) Formulation
Other means of identification	:	COOPERS NILZAN LV ORAL DRENCH (36089)
Supplier's company name, ac Company name of supplier		<b>ess and phone number</b> MSD
Address	:	Kumagaya, Saitama Prefecture, Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

### 2. HAZARDS IDENTIFICATION

GHS classification of chemical product							
Serious eye damage/eye irri- tation	:	Category 1					
Reproductive toxicity	:	Category 2					
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Central nervous system)					

Specific target organ toxicity - repeated exposure	:	Category 2 (Brain, Liver)
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic	:	Category 2

### **GHS** label elements

hazard



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Haza	rd pictograms		
Signa	l word	: Danger	• •
Haza	rd statements	H361d Suspec H371 May caus swallowed. H373 May caus longed or repea	serious eye damage. ted of damaging the unborn child. se damage to organs (Central nervous system) se damage to organs (Brain, Liver) through pro ated exposure. aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not ha and understood P260 Do not bi P264 Wash ski P270 Do not ea P273 Avoid rel	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. ease to the environment. otective gloves/ protective clothing/ eye protec-
		water for sever and easy to do CENTER/ doct	F exposed or concerned: Call a POISON or.
		Storage:	
		P405 Store loc	ked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste
	r <b>hazards which do n</b> known.	ot result in classifica	tion
. COMPC	SITION/INFORMATIC	ON ON INGREDIENTS	3
Subst	ance / Mixture	: Mixture	
Com	oonents		
Chem	nical name	CAS-No.	Concentration (% w/w) ENCS No.



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oxyclozanide	2277-92-1	>= 10 - < 20	9-1297
Silicic acid, aluminum salt	1335-30-4	>= 1 - < 10	1-26
levamisole hydrochloride	16595-80-5	>= 1 - < 10	-
Citric acid	77-92-9	>= 1 - < 10	2-1318
Tetrasodium ethylenediaminetet- raacetate	64-02-8	>= 0.1 - < 1	2-1265

### 4. 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
If inhaled	:	advice. 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 swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	
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).
Notes to physician	:	Treat symptomatically and supportively.

### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media :

Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical



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	Unsuita media	able extinguishing	:	None known.	
	Specific fighting	c hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (I	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.

### 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 pro- tective equipment recommendations (see section 8).
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.
Methods and materials for containment and 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.



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### 7. HANDLING AND STORAGE

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 hygiene and safety
		practice, based on the results of the workplace exposure as-
		Keep container tightly closed.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
Avoidance of contact	:	Oxidizing agents
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.
Storage		
Conditions for safe storage	•	Keep in properly labelled containers.
	•	Store locked up.
		Keep tightly closed.
••••		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con-	Basis
			centration	
			Centration	



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oxyclozanide	2277-92-1	TWA	0.4 mg/m3 (OEB 2)	Internal	
levamisole hydrochloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal	
	Further inform	ation: Skin			
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	
Engineering measures	technologies less quick co All engineerir design and o protect produ Containment are required to	to control airborn nnections). ng controls shoul perated in accord icts, workers, and technologies sui to control at sour d to uncontrolled ices).	controls and manufac ne concentrations (e.g d be implemented by dance with GMP prind d the environment. table for controlling c ce and to prevent mig l areas (e.g., open-fac	g., drip- facility ciples to ompounds gration of	
Personal protective equipment	•	5			
Respiratory protection Filter type Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type				
Material	: Chemical-resistant gloves				
Remarks Eye protection Skin and body 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. Work uniform or laboratory coat. Additional body garments should be used based upon the				
	posable suits	) to avoid expose ate degowning te	eevelets, apron, gaur ed skin surfaces. echniques to remove		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	suspension
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available



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Melt	ing point/freezing point	:	No data available	9
	ng point, initial boiling t and boiling range	:	No data available	
Flam	nmability (solid, gas)	:	Not applicable	
Flam	nmability (liquids)	:	No data available	)
L	er explosion limit and upp Jpper explosion limit / Up- er flammability limit			
	ower explosion limit / ower flammability limit	:	No data available	
Flas	h point	:	No data available	)
Dece	omposition temperature	:	No data available	)
рН		:	No data available	
Eva	poration rate	:	No data available	
Auto	-ignition temperature	:	No data available	
	osity /iscosity, kinematic	:	No data available	
	bility(ies) Vater solubility	:	No data available	
	ition coefficient: n- nol/water	:	Not applicable	
Vap	our pressure	:	No data available	
	sity and / or relative dens Relative density	ity :	No data available	)
C	Density	:	No data available	
Rela	tive vapour density	:	No data available	)
Expl	osive properties	:	Not explosive	
Oxid	lizing properties	:	The substance of	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	9



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	cle characteristics article size	:	Not applicable	
0. STAB	ILITY AND REACTIVITY	1		
Possi tions Cond Incon	nical stability ibility of hazardous reac- litions to avoid npatible materials rdous decomposition		Stable under nor Can react with st None known. Oxidizing agents	trong oxidizing agents.
1. TOXIC		ΓΙΟΙ	N	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity lassified based on availa	ble	information.	
Prod	uct:			
	e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method
Com	ponents:			
охус	lozanide:			
Acute	e oral toxicity	:	LD50 (Rat): 3,519 Target Organs: C	9 mg/kg entral nervous system
	e toxicity (other routes of nistration)	:	LDLo (sheep): 10 Application Route	
	<b>c acid, aluminum salt:</b> e oral toxicity	:		e): > 2,000 mg/kg est Guideline 423 substance or mixture has no acute oral to
Acute	e dermal toxicity	:	LD50 (Rabbit): > Remarks: Based	5,000 mg/kg on data from similar materials

### levamisole hydrochloride:



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Acute	oral toxicity	:	LD50 (Rat): 180	mg/kg
			LD50 (Mouse): 2	223 mg/kg
			LD50 (Rabbit): 4	58 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ta available
Acute	dermal toxicity	:	Remarks: No da	ta available
Citric	acid:			
Acute	oral toxicity	:	LD50 (Mouse): {	5,400 mg/kg
Acute	dermal toxicity	:		000 mg/kg Test Guideline 402 e substance or mixture has no acute derma
Tetras	sodium ethylenediar	ninete	etraacetate:	
Acute	oral toxicity	:	LD50 (Rat): 1,78 Method: OECD	80 mg/kg Test Guideline 401
Acute	inhalation toxicity	:	LC50 (Rat): > 1 Exposure time: ( Test atmosphere Remarks: Based	3 h
	corrosion/irritation	ilable	information.	
Comp	onents:			
oxycl	ozanide:			
Rema	rks	:	Not classified du	e to lack of data.
Silicio	acid, aluminum sal	t:		
Specie		:	Rabbit	
Metho Result		:	OECD Test Guid	
		:	No skin irritation Based on data f	rom similar materials
Rema				
Rema	isole hydrochloride			
Rema	<b>isole hydrochloride</b> rks	:	No data availabl	e
Rema levam	rks	:	No data availabl	e

# SAFETY DATA SHEET



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Resul	t	: No	skin irritation	
	sodium ethylenedia			
Speci Metho		: Rat : OE	CD Test Guid	deline 404
Resul			skin irritation	
Serio	us eye damage/eye	irritation		
Cause	es serious eye damaç	je.		
<u>Comp</u>	oonents:			
oxycl	ozanide:			
Rema	arks	: Not	classified du	e to lack of data.
Silicio	c acid, aluminum sa	lt:		
Speci			cken eye	1 I I A
Metho	bd			nembrane vascularization assay
Resul	t	: Irre	versible effec	ts on the eye
levan	nisole hydrochloride	<b>:</b>		
Rema	urks	: No	data available	e
Citric	acid:			
Speci		: Rat		
Resul		: Irrit	ation to eyes, CD Test Guic	, reversing within 21 days
Metho	Da	: 05	CD Test Guid	Jeline 405
	sodium ethylenedia			
Resul Rema				ts on the eye al or regional regulation.
Resp	iratory or skin sens	tisation		
Skin	sensitisation			
Not cl	assified based on av	ailable infor	mation.	
-	<b>iratory sensitisatio</b> r assified based on av		mation.	
	oonents:			
	ozanide:			
-	sure routes	: Der	mal	
Rema		: Not	classified du	e to lack of data.



ersion .1	Revision Date: 2024/09/28				OS Number: 857724-00010	Date of last issue: 2024/07/06 Date of first issue: 2022/09/29
Test	sure routes ies od	lt: : :	Local lymph nod Skin contact Mouse OECD Test Guid negative			
levar	nisole hydrochloride	•:				
Rema	-	:	No data availabl	e		
Tetra	isodium ethylenedia	minet	etraacetate:			
Test Expo Spec Meth Resu Rema	sure routes ies od It		Maximisation Te Skin contact Guinea pig OECD Test Guio negative Based on data fr			
	n cell mutagenicity lassified based on ava	ailable	information.			
<u>Com</u>	ponents:					
-	lozanide: otoxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)		
				mosomal aberration man lymphocytes		
			Test Type: Mous Result: positive	se Lymphoma		
Geno	otoxicity in vivo	:	Test Type: Micro Species: Mouse Application Rout Result: negative	te: Oral		
			Test Type: unscl Species: Rat Cell type: Liver of Application Rout Result: negative	te: Oral		
Germ	o cell mutagenicity -		Weight of evider	oce does not support classification as		

Germ cell mutagenicity - : Weight of evidence does not support classification as a germ cell mutagen.



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		acid, aluminum salt: xicity in vitro	:	Test Type: Bacter	ial reverse mutation assay (AMES)
	Genolo			Result: negative Test Type: Chrom Result: negative	nosome aberration test in vitro on data from similar materials
	Genoto	xicity in vivo	:	cytogenetic test, o Species: Rat Application Route Result: negative	enicity (in vivo mammalian bone-marrow chromosomal analysis) :: Ingestion on data from similar materials
		sole hydrochloride:			
	Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: Chrom Result: negative	nosome aberration test in vitro
	Citric a	cid:			
	Genoto	xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
				Test Type: in vitro Result: positive	o micronucleus test
				Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
	Genoto	xicity in vivo	:		enicity (in vivo mammalian bone-marrow chromosomal analysis) : Ingestion
	Tetraso	odium ethylenediamii	nete	etraacetate:	
	Genoto	xicity in vitro	:	Result: negative	nosome aberration test in vitro on data from similar materials
	Genoto	xicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD To	: Ingestion



ersion 1	Revision Date: 2024/09/28	SDS Number:Date of last issue: 2024/07/0610857724-00010Date of first issue: 2022/09/29
		Result: negative Remarks: Based on data from similar materials
	nogenicity assified based on ava	lable information
	oonents:	
oxvcl	ozanide:	
Rema		: Not classified due to lack of data.
Silicio	c acid, aluminum sal	:
Speci	es	: Rat
	ation Route	: Ingestion
	sure time	: 104 weeks
Resul		: negative
Rema	ſKS	: Based on data from similar materials
	nisole hydrochloride:	
Speci		: Mouse
	ation Route	: Oral : 2 Years
NOAE		: 80 mg/kg body weight
Rema		: No significant adverse effects were reported
Speci		: Rat
	ation Route	: Oral
NOAE	sure time	: 2 Years : 40 mg/kg body weight
Rema		: No significant adverse effects were reported
Tetra	sodium ethylenedian	ninetetraacetate:
Speci	-	: Rat
Applic	ation Route	: Ingestion
	sure time	: 103 weeks
Resul		: negative
Rema	ſKS	: Based on data from similar materials
Speci	es ation Route	: Mouse : Ingestion
	sure time	: 103 weeks
Resul		: negative
Rema		: Based on data from similar materials
Repro	oductive toxicity	
-	ected of damaging the	unhorn child



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Com	ponents:		
-	<b>lozanide:</b> ts on fertility	Species: Rat, m Application Rou General Toxicity	te: Oral / - Parent: NOAEL: 25 - 35 mg/kg body weight luced body weight, No effects on embryofoetal evelopment
		Species: Rat Application Rou General Toxicity weight	<ul> <li>Parent: LOAEL: 75 - 100 mg/kg body</li> <li>luced body weight, No effects on embryofoetal</li> <li>evelopment</li> </ul>
		Species: Rat Application Rou Early Embryonic weight	-generation reproduction toxicity study te: Oral c Development: LOAEL: 75 - 100 mg/kg body oxicity, No teratogenic effects
		Species: Rat Application Rou General Toxicity weight	-generation reproduction toxicity study te: Oral / - Parent: LOAEL: 80 - 160 mg/kg body oxicity, No teratogenic effects, No effects on
Effec ment	ts on foetal develop-		
		Test Type: Deve Species: Rabbit Application Rou Developmental	



rsion I	Revision Date: 2024/09/28	-	DS Number: 857724-00010	Date of last issue: 2024/07/06 Date of first issue: 2022/09/29
			Result: Fetotoxi	city, Skeletal malformations
Repro sessn	oductive toxicity - As- nent	:	Suspected of da	amaging the unborn child.
Silicio	c acid, aluminum salt:			
	s on foetal develop-	:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials	
levan	nisole hydrochloride:			
	s on fertility	:	Species: Rat Application Rou	e-generation reproduction toxicity study te: Oral ficant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Rou	Toxicity: NOAEL: 20 mg/kg body weight
			Species: Rabbit Application Rou	te: Oral Toxicity: LOAEL: 40 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experime	of adverse effects on development, based ents.
Citric	acid			
	s on foetal develop-	:	Test Type: One Species: Rat Application Rou Result: negative	
Tetra	sodium ethylenediam	inet	etraacetate:	
	s on fertility	:	Test Type: Four Species: Rat Application Rou Result: negative	
Effect ment	s on foetal develop-	:	Test Type: Emb Species: Rat Application Rou	ryo-foetal development te: Ingestion

Symptoms



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

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		Result: negative	
	<b>- single exposure</b> cause damage to orga	ans (Central nervous sys	stem) if swallowed.
-	ponents:		,
	lozanide:		
Expo: Targe	sure routes et Organs ssment	: Oral : Central nervous : May cause dam	
Citric	acid:		
Asses	ssment	: May cause resp	iratory irritation.
STO	- repeated exposur	e	
May o	cause damage to orga	ans (Brain, Liver) throug	h prolonged or repeated exposure.
<u>Com</u>	ponents:		
oxyc	lozanide:		
-	et Organs ssment	: Brain, Liver : May cause dam exposure.	age to organs through prolonged or repeated
levan	nisole hydrochloride	2.	
	et Organs	: Blood, Testis	
	ssment	,	age to organs through prolonged or repeated
Tetra	sodium ethylenedia	minetetraacetate:	
	sure routes	: inhalation (dust/	
	et Organs ssment		ct ce significant health effects in animals at cor ).02 to 0.2 mg/l/6h/d.
Repe	ated dose toxicity		
Com	ponents:		
oxyc	lozanide:		
Speci		: Rat	
NOA		: 9 mg/kg	
LOAE		: 44.5 mg/kg	
	cation Route sure time	: Oral : 3 Months	
	et Organs		een, Adrenal gland
Symr		· Liver effects	

: Liver effects



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Expo	EL EL cation Route sure time et Organs		Dog 5 mg/kg 25 mg/kg Oral 3 Months Brain, Liver blood effects, alt	eration in liver enzymes
Silici	c acid, aluminum salt	:		
Speci NOAE Applio	es EL cation Route sure time		Rat > 100 mg/kg Ingestion 104 Weeks Based on data fr	om similar materials
levan	nisole hydrochloride:			
Expos		:	Rat 2.5 mg/kg Oral 18 Months Testis	
Expos			Dog 20 mg/kg Oral 18 Months Blood	
		:	Dog 40 mg/kg Oral 3 Months	
Citric	acid:			
Speci NOAE LOAE Applic	es EL		Rat 4,000 mg/kg 8,000 mg/kg Ingestion 10 Days	
Tetra	sodium ethylenedian	ninet	etraacetate:	
Speci NOAE Applic	es EL cation Route sure time		Mouse >= 938 mg/kg Ingestion 103 Weeks	om similar materials



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	EL cation Route sure time	:	Rat 0.03 mg/l inhalation (dust/ 4 Weeks Based on data fi	mist/fume) rom similar materials	
Aspiration toxicity Not classified based on available information.					
<u>Com</u>	oonents:				
•	<b>ozanide:</b> pplicable				
Expe	rience with human ex	posi	ure		
<u>Comp</u>	oonents:				
oxycl	ozanide:				
Inges	tion	:	Symptoms: May nervous system	cause, Gastrointestinal disturbance, Central depression	
levan	nisole hydrochloride:				
Inges	-	:	Symptoms: Nau tension	sea, Vomiting, Headache, Dizziness, hypo-	
. ECOL	OGICAL INFORMATIO	N			
Ecoto	oxicity				
<u>Com</u>	oonents:				
Toxic	<b>ozanide:</b> ity to daphnia and other ic invertebrates	r:	Exposure time: 4	magna (Water flea)): 0.69 mg/l 48 h Test Guideline 202	
icity)	ctor (Acute aquatic tox-	:			
M-Factoric	ctor (Chronic aquatic ty)	:	1		

### Ecotoxicology Assessment

Chronic aquatic toxicity : No toxicity at the I	limit of solubility
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### levamisole hydrochloride:



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Toxicit	ty to fish	:	LC50 (Oryzias lat Exposure time: 96 Method: OECD Te	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Citric	acid:			
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 24	agna (Water flea)): 1,535 mg/l I h
Tetras	odium ethylenediami	nete	etraacetate:	
	ty to fish	:		acrochirus (Bluegill sunfish)): 121 mg/l 5 h
	ty to daphnia and other c invertebrates	:	Exposure time: 48 Method: DIN 384	
Toxicit plants	ty to algae/aquatic	:	Exposure time: 72	smus subspicatus (green algae)): 100 mg/l 2 h 67/548/EEC, Annex V, C.3.
Toxicit icity)	ty to fish (Chronic tox-	:	Exposure time: 35 Method: OECD To	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time: 21	nagna (Water flea)): 25 mg/l I d on data from similar materials
Toxicit	ty to microorganisms	:	EC10: > 1,000 mg Exposure time: 30 Method: ISO 8192	) min
Persis	stence and degradabili	ity		
	onents:	-		
oxycle	<b>ozanide:</b> ty in water	:	Hydrolysis: 50 %( Method: OECD To	



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c	Citric a	acid:			
		radability	:	Result: Readily b	iodegradable
-	Jiouog	laddonty	•	Biodegradation:	97 %
				Exposure time: 2	8 d Test Guideline 301B
Г	<b>Fetras</b>	odium ethylenediami	nete	etraacetate:	
E	Biodeg	radability	:	Result: Not readi	
				Biodegradation: Exposure time: 2	
				Method: OECD T	est Guideline 301E
				Remarks: Based	on data from similar materials
E	Bioaco	cumulative potential			
<u>c</u>	Compo	onents:			
c	oxyclo	zanide:			
		n coefficient: n-	:	log Pow: 3.99	
C	octano	l/water		pH: 7 Method: OECD T	est Guideline 107
C	Citric a	acid:			
-		n coefficient: n- I/water	:	log Pow: -1.72	
Г	<b>Fetras</b>	odium ethylenediami	nete	etraacetate:	
E	Bioacc	umulation	:		s macrochirus (Bluegill sunfish) factor (BCF): 1.8
N	Nobilit	ty in soil			
<u>c</u>	Compo	onents:			
c	oxyclo	zanide:			
	•	ution among environ-	:	log Koc: 4.83	
n	mental	compartments		Method: OECD T	est Guideline 106
F	Hazaro	lous to the ozone lay	er		
		plicable			
		adverse effects			
٢	No data	a available			
13. D	ISPOS	SAL CONSIDERATION	IS		
г	Disnos	sal methods			
	-	from residues	:	Dispose of in acc	ordance with local regulations.



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	Contarr	ninated packaging	:	dling site for recyc	should be taken to an approved waste han-		
14. 1	14. TRANSPORT INFORMATION						
	Interna	tional Regulations					
	UNRTE UN nun Proper		:	UN 3082 ENVIRONMENTA N.O.S. (oxyclozanide)	LLY HAZARDOUS SUBSTANCE, LIQUID,		
	Class Packing Labels Enviror	g group Imentally hazardous	:	9 III 9 yes			
	IATA-D UN/ID I Proper		:	UN 3082 Environmentally h (oxyclozanide)	azardous substance, liquid, n.o.s.		
	Class Packing Labels Packing aircraft	g instruction (cargo	:	9 III Miscellaneous 964			
	ger airc	g instruction (passen- raft) mentally hazardous	:	964 yes			
	IMDG-( UN nur Proper	Code	:	N.O.S. (oxyclozanide)	LLY HAZARDOUS SUBSTANCE, LIQUID,		
	Class Packing Labels EmS C Marine		:	9 III 9 F-A, S-F yes			

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### 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



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

ERG Code

### **15. REGULATORY INFORMATION**

### **Related Regulations**

### Fire Service Law

Not applicable to dangerous materials / designated flammables.

: 171

### **Chemical Substance Control Law**

Priority Assessment Chemical Substance

Chemical name	Number
Sodium salt of 2,2',2",2"'-(ethane-1,2-diyldinitrilo)tetraacetic acid	268

### Industrial Safety and Health Law

### Harmful Substances Prohibited from Manufacture

Not applicable

### Harmful Substances Required Permission for Manufacture

Not applicable

### Substances Prevented From Impairment of Health

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)		
Chemical name	Concentration (%)	Remarks
Water-soluble aluminum salts	>=1 - <10	-
levamisole hydrochloride	>=1 - <10	From April 1st, 2025

# Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)	
Chemical name	Remarks
Aluminium and its water-soluble salts	-
levamisole hydrochloride	From April 1st, 2025
	· · · ·

### Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2) Not applicable



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### Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

### Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

### Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

### **Ordinance on Prevention of Organic Solvent Poisoning**

Not applicable

### Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

### **Poisonous and Deleterious Substances Control Law**

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

### **High Pressure Gas Safety Act**

Not applicable

### **Explosive Control Law**

Not applicable

### **Vessel Safety Law**

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

### **Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

### Marine Pollution and Sea Disaster Prevention etc Law

: Noxious liquid substance(Category Z) Bulk transportation

: Classified as marine pollutant Pack transportation

### Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

# Waste Disposal and Public Cleansing Law

Industrial waste



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

### **16. OTHER INFORMATION**

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

### 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 Agen- cy, http://echa.europa.eu/
		· · · ·

Date format : yyyy/mm/dd

### Full text of other abbreviations

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 Sub-



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stances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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