

Version	Revision Date:	SDS Number:	Date of last issue: 16.05.2024
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Section 1: Identification

Product identifier		Levamisole (6.5%) / Oxyclozanide (13%) Formulation			
Other means of identifica- tion	:	COOPERS NILZAN LV ORAL DRENCH (36089)			
Recommended use of the cl	nem	ical and restrictions on use			
Recommended use Restrictions on use		Veterinary product Not applicable			
Manufacturer or supplier's c	Manufacturer or supplier's details				
Company	:	MSD			
Address	:	50 Tuas West Drive Singapore - Singapore 638408			
Telephone	:	+1-908-740-4000			
Emergency telephone number	r:	65 6697 2111 (24/7/365)			
E-mail address	:	EHSDATASTEWARD@msd.com			

Section 2: Hazard identification

Classification of the substance or mixture

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)
Long-term (chronic) aquatic hazard	:	Category 2

GHS Label elements, including precautionary statements



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	rd pictograms		
Signa	al word	: Danger	
Haza	rd statements	H361d Suspect H371 May caus swallowed. H373 May caus longed or repea	erious eye damage. eed 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 br P264 Wash ski P270 Do not ea P273 Avoid rele P280 Wear pro	pecial instructions before use. andle until all safety precautions have been rea d. eathe mist or vapours. In thoroughly after handling. at, drink or smoke when using this product. ease to the environment. tective gloves/ protective clothing/ eye protec- ction/ hearing protection.
		water for sever and easy to do. CENTER/ docto	exposed or concerned: Call a POISON
		Storage:	
		P405 Store locl	ked up.
		Disposal: P501 Dispose o disposal plant.	of contents/ container to an approved waste
	r hazards which do n known.	ot result in classificat	ion
	: Composition/inform	nation on ingredients	
section 3		-	
Subs	tance / Mixture ponents	: Mixture	



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oxyclozanide	2277-92-1	>= 10 -< 20
Silicic acid, aluminum salt	1335-30-4	>= 3 -< 10
levamisole hydrochloride	16595-80-5	>= 3 -< 10
Citric acid	77-92-9	>= 1 -< 10

Section 4: First-aid measures

Description of necessary	first-aid measures
General advice	 In the case of accident or if you feel unwell, seek medical a vice immediately. When symptoms persist or in all cases of doubt seek medic advice.
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and ple 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 wa for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
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	s and effects, both acute and delayed
Risks	 Causes serious eye damage. Suspected of damaging the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeat exposure.
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).
Indication of any immedia	te medical attention and special treatment needed
Treatment	: Treat symptomatically and supportively.

Suitable extinguishing media : Water spray	
	Icohol-resistant foam arbon dioxide (CO2)



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	Unsuita media	able extinguishing	:	None known.	
	Specia	I hazards arising from	n th	e substance or m	ixture
	Specifi fighting	c hazards during fire-	:	Exposure to com	pustion products may be a hazard to health.
	Hazardous combustion prod- ucts		:	Carbon oxides Chlorine compour Nitrogen oxides (I	
	Specia	I protective actions for	or fi	ire-fighters	
	for firef	protective equipment ighters c extinguishing meth-	:	Use personal pro Use extinguishing cumstances and t Use water spray t	e, wear self-contained breathing apparatus. tective equipment. 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

	quipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. 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 contain Methods for cleaning up :	nent 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.

mine which regulations are applicable.

certain local or national requirements.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter-

Sections 13 and 15 of this SDS provide information regarding



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Section 7: Handling and storage

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 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- sessment
	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.
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.
Conditions for safe storage, in	cluding any incompatibilities
Conditions for safe storage :	Keep in properly labelled containers.
	Store locked up.
	Keep tightly closed.
Motoriale to evoid	Store in accordance with the particular national regulations.
Materials to avoid :	Do not store with the following product types:
	Strong oxidizing agents

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
oxyclozanide	2277-92-1	TWA	0.4 mg/m3 (OEB 2)	Internal



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Silicic acid, aluminum salt	13	335-30-4	PEL (long term)	2 mg/m3 (Aluminium)	SG OEL		
levamisole hydrochloride		6595-80-5	TWA	20 µg/m3 (OEB 3)	Internal		
	Fι	urther informa	ation: Skin				
			Wipe limit	200 µg/100 cm ²	Internal		
Appropriate engineering control measures	te A d C a tr ta	echnologies t ess quick cor Il engineerin esign and op rotect produc containment re required to	to control airbor inections). g controls shou berated in accor cts, workers, an technologies su to control at sou to uncontrolled ces).	controls and manufac ne concentrations (e. ld be implemented by dance with GMP prin d the environment. itable for controlling c rce and to prevent mi d areas (e.g., open-fa	g., drip- facility ciples to compounds gration of		
Individual protection measu				e equipment (PPE)			
Eye/face protection	lf m V p	the work en hists or aeros Vear a faces	vironment or ac sols, wear the a nield or other fu	e shields or goggles. tivity involves dusty c ppropriate goggles. Il face protection if the the face with dusts, m	ere is a		
Skin protection	: V A ta	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially					
				echniques to remove	potentially		
Respiratory protection	c : If s	ontaminated adequate lo ure assessm	clothing. cal exhaust ver ent demonstrat	tilation is not availabl es exposures outside	e or expo-		
Filter type	c : If s o	ontaminated adequate lo ure assessm	clothing. cal exhaust ver ent demonstrat uidelines, use re	Itilation is not availabl	e or expo-		
Respiratory protection Filter type Hand protection Material	c : If s o : P	ontaminated adequate lo ure assessm mmended gu	clothing. cal exhaust ver ent demonstrat uidelines, use re pe	tilation is not availabl es exposures outside	e or expo-		

Section 9: Physical and chemical properties

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

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



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Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

Section 11: Toxicological information

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity		Acute toxicity estimate: > 2,000 mg/kg	
		Method: Calculation method	

Components:

oxyclozanide:

Acute oral toxicity	:	LD50 (Rat): 3,519 mg/kg Target Organs: Central nervous system
Acute toxicity (other routes of administration)	:	LDLo (sheep): 10 mg/kg Application Route: Intravenous
Silicic acid, aluminum salt:		
Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials
levamisole hydrochloride:		
Acute oral toxicity	:	LD50 (Rat): 180 mg/kg
		LD50 (Mouse): 223 mg/kg



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			LD50 (Rabbit): 4	58 ma/ka	
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	:	 LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute de toxicity 		
-	corrosion/irritation assified based on availa	ble	information.		
<u>Comp</u>	ponents:				
oxycl	ozanide:				
Rema	arks	:	Not classified du	e to lack of data.	
Silici	c acid, aluminum salt:				
Speci		:	Rabbit		
Metho Resul		:	OECD Test Guid No skin irritation	leiine 404	
Rema		:		om similar materials	
levan	nisole hydrochloride:				
Rema	urks	:	No data available	9	
Citric	acid:				
Speci		:	Rabbit		
Metho Resul		:	OECD Test Guid No skin irritation	leline 404	
Resu	l	•	NO SKIN IMIALION		
	us eye damage/eye irri es serious eye damage.	itati	on		
<u>Comp</u>	ponents:				
oxycl	ozanide:				
Rema	arks	:	Not classified du	e to lack of data.	
Silici	c acid, aluminum salt:				
Speci	es	:	Chicken eye		

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Meth	od	:	Chorioallantoic r	membrane vascularization assay
Resu	lt	:	Irreversible effect	cts on the eye
levar	nisole hydrochloride	e:		
Rema	-	:	No data availabl	le
Citric	c acid:			
Spec		:	Rabbit	
Resu Meth		:	OECD Test Gui	, reversing within 21 days deline 405
Resp	biratory or skin sens	itisatio	on	
-	sensitisation	ailahla	information	
			inionnation.	
-	biratory sensitisation classified based on available		information.	
<u>Com</u>	ponents:			
охус	lozanide:			
Expo Rema	sure routes arks	:	Dermal Not classified du	ue to lack of data.
	c acid, aluminum sa	lt:		
Test		:	Local lymph noc	le assay (LLNA)
Expo Spec	sure routes ies	:	Skin contact Mouse	
Meth		:	OECD Test Gui	deline 429
Resu	lt	:	negative	
levar	nisole hydrochloride	e :		
Rema	arks	:	No data availabl	e
	n cell mutagenicity			
Not c	lassified based on available	ailable	information.	
<u>Com</u>	ponents:			
охус	lozanide:			
Genc	otoxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
				mosomal aberration Iman lymphocytes

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		Test Type: N Result: posit	<i>l</i> ouse Lymphoma ive
Genotoxicity in vivo			/licronucleus test use Route: Oral
		Test Type: u Species: Ra Cell type: Liv Application F Result: nega	ver cells Route: Oral
	cell mutagenicity - sment	: Weight of ev cell mutager	ridence does not support classification as a gerr n.
Silicio	c acid, aluminum sa	t:	
Genotoxicity in vitro		: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Result: nega	Chromosome aberration test in vitro ative ased on data from similar materials
Geno	toxicity in vivo	cytogenetic Species: Ra Application F Result: nega	Route: Ingestion
levan	nisole hydrochloride	:	
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: 0 Result: nega	Chromosome aberration test in vitro
Citric	acid:		
	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: ir Result: posit	n vitro micronucleus test ive
		Test Type: E Result: nega	Bacterial reverse mutation assay (AMES)



rsion)	Revision Date: 06.07.2024	SDS Number:Date of last issue: 16.05.202410857712-00008Date of first issue: 29.09.2022
Genot	oxicity in vivo	: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion
		Result: negative
	nogenicity	
	assified based on ava	lable information.
	onents:	
oxycl Rema	ozanide: rks	: Not classified due to lack of data.
Rema		
Silicio	acid, aluminum sal	::
Specie	es	: Rat
Applic	ation Route	: Ingestion
	sure time	: 104 weeks
Result		: negative
Rema	rks	: Based on data from similar materials
levam	isole hydrochloride	
Specie	es	: Mouse
	ation Route	: Oral
	sure time	: 2 Years
NOAE		: 80 mg/kg body weight
Rema	rks	: No significant adverse effects were reported
Specie	es	: Rat
	ation Route	: Oral
	sure time	: 2 Years
NOAE		: 40 mg/kg body weight
Rema	rks	: No significant adverse effects were reported
Repro	oductive toxicity	
	ected of damaging the	unborn child.
<u>Comp</u>	onents:	
-	ozanide:	
Effects	s on fertility	 Test Type: Two-generation reproduction toxicity study Species: Rat, male and female Application Route: Oral General Toxicity - Parent: NOAEL: 25 - 35 mg/kg body weig Symptoms: Reduced body weight, No effects on embryofoet and postnatal development Result: No effects on fertility



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			Species: Rat Application Route	eneration reproduction toxicity study e: Oral - Parent: LOAEL: 75 - 100 mg/kg body
			weight	ced body weight, No effects on embryofoeta /elopment
			Species: Rat Application Route Early Embryonic weight	eneration reproduction toxicity study e: Oral Development: LOAEL: 75 - 100 mg/kg body kicity, No teratogenic effects
			Species: Rat Application Route General Toxicity - weight	eneration reproduction toxicity study e: Oral - Parent: LOAEL: 80 - 160 mg/kg body kicity, No teratogenic effects, No effects on
Effects ment	on foetal develop-	:		
Reproc	luctive toxicity - As- ent	:	Suspected of dan	naging the unborn child.
Silicic	acid, aluminum salt:			
	on foetal develop-	:	Species: Rat Application Route Result: negative	vo-foetal development e: Ingestion on data from similar materials

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levam	nisole hydrochloride	:		
Effect	s on fertility	:	Species: Rat Application Rou	ee-generation reproduction toxicity study ite: Oral ificant adverse effects were reported
Effect ment	s on foetal develop-	:	Species: Rat Application Rou	Toxicity: NOAEL: 20 mg/kg body weight
			Species: Rabbi Application Rou	ite: Oral Toxicity: LOAEL: 40 mg/kg body weight
Repro sessm	oductive toxicity - As- nent	:	Some evidence animal experim	of adverse effects on development, based ents.
Citric	acid:			
Effect ment	s on foetal develop-	:	Test Type: One Species: Rat Application Rou Result: negative	
стот	- single exposure			
May c	ause damage to orga	ns (Ce	entral nervous sy	stem) if swallowed.
Comp	oonents:			
-	ozanide:		o .	
	sure routes t Organs	:	Oral Central nervous	system
•	ssment	:	May cause dam	5
Citric	acid:			
Asses	ssment	:	May cause resp	piratory irritation.
стот	- repeated exposure	e		
			ain, Liver) throug	h prolonged or repeated exposure.
May c			ain, Liver) throug	gh prolonged or repeated exposure.
May c <u>Comp</u> oxycl	ause damage to orga		ain, Liver) throug Brain, Liver	gh prolonged or repeated exposure.



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Asses	sment	: May cause damage to organs through prolonged or repeated exposure.
levam	isole hydrochloride:	
	t Organs sment	 Blood, Testis May cause damage to organs through prolonged or repeated exposure.
Repea	ated dose toxicity	
<u>Comp</u>	onents:	
oxycl	ozanide:	
Specie		: Rat
NOAE LOAE		: 9 mg/kg
	∟ ation Route	: 44.5 mg/kg : Oral
	sure time	: 3 Months
	t Organs	: Brain, Liver, spleen, Adrenal gland
Symp	toms	: Liver effects
Specie		: Dog
NOAE		: 5 mg/kg
LOAE	L ation Route	: 25 mg/kg : Oral
	sure time	: 3 Months
	t Organs	: Brain, Liver
Sympt		: blood effects, alteration in liver enzymes
Silicio	: acid, aluminum sal	t:
Specie		: Rat
NOAE	E	: > 100 mg/kg
	ation Route	: Ingestion
Expos Rema	sure time	: 104 Weeks : Based on data from similar materials
Rema	IKS	. Based on data from similar materials
levam	isole hydrochloride:	:
Specie		: Rat
NOAE		: 2.5 mg/kg
	ation Route sure time	: Oral : 18 Months
	t Organs	: Testis
Specie	es	: Dog
LOAE		: 20 mg/kg
Applic	ation Route	: Oral
	sure time	: 18 Months
	t Organs	: Blood



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Speci	es	: Dog	
LÕAE	E	: 40 mg/kg	
	cation Route sure time	: Oral : 3 Months	
Citric	acid:		
Speci		: Rat	
NOAE LOAE		: 4,000 mg/kg : 8,000 mg/kg	
Applic	cation Route	: Ingestion	2
Expos	sure time	: 10 Days	
-	ation toxicity assified based on ava	ilable information.	
<u>Com</u>	oonents:		
oxycl	ozanide:		
Not a	pplicable		
Expe	rience with human e	xposure	
<u>Comp</u>	oonents:		
oxycl	ozanide:		
Inges	tion		May cause, Gastrointestinal disturbance, Centra stem depression
levan	nisole hydrochloride	:	
Inges	tion	: Symptoms: tension	Nausea, Vomiting, Headache, Dizziness, hypo-
Section 12	2: Ecological information	ation	
Toxic	ity		
<u>Com</u>	oonents:		
oxycl	ozanide:		

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) M-Factor (Chronic aquatic toxicity)	:	



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Sili	cic acid, aluminum salt:			
Eco	otoxicology Assessment			
	onic aquatic toxicity	:	No toxicity at the	e limit of solubility
leva	amisole hydrochloride:			
Тох	icity to fish	:	Exposure time:	atipes (Japanese medaka)): 37.3 mg/l 96 h Test Guideline 203
	icity to daphnia and other atic invertebrates	:	Exposure time:	magna (Water flea)): 64 mg/l 48 h Test Guideline 202
Citr	ric acid:			
Тох	icity to fish	:	LC50 (Pimephal Exposure time: 9	es promelas (fathead minnow)): > 100 m 96 h
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia Exposure time: 2	magna (Water flea)): 1,535 mg/l 24 h
Per	sistence and degradabili	ty		
Cor	nponents:			
оху	clozanide:			
Sta	bility in water	:	Hydrolysis: 50 % Method: OECD	6(156 d) Test Guideline 111
Citr	ric acid:			
Bio	degradability	:	Result: Readily Biodegradation: Exposure time: 2 Method: OECD	97 %
Bio	accumulative potential			
<u>Cor</u>	nponents:			
оху	clozanide:			
	tition coefficient: n- anol/water	:	log Pow: 3.99 pH: 7 Method: OECD	Test Guideline 107
Citr	ric acid:			
	tition coefficient: n- anol/water	:	log Pow: -1.72	



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Mobil	lity in soil		
<u>Comp</u>	oonents:		
oxycl	ozanide:		
	oution among environ- al compartments	: log Koc: 4.83 Method: OECD	Test Guideline 106
	r adverse effects ata available		
ection 13	3: Disposal considerat	ions	
Dispo	osal methods		
•	e from residues	Dispose of in a	of waste into sewer. ccordance with local regulations.
Conta	aminated packaging	dling site for red	ers should be taken to an approved waste har cycling or disposal. specified: Dispose of as unused product.
Interr	national Regulations		
	FDG umber	: UN 3082	
-	oper shipping name		TALLY HAZARDOUS SUBSTANCE, LIQUID
	port hazard class(es)	: 9	
Label	ng group s	: III : 9	
	onmental hazards	: yes	
IATA			
UN/IE UN pr) No. oper shipping name	: UN 3082 : Environmentall (oxyclozanide)	y hazardous substance, liquid, n.o.s.
Trans	port hazard class(es)	: 9	
	ng group	: III Missellenseus	
Label Packi aircra	ng instruction (cargo	: Miscellaneous : 964	
Packi ger ai	ng instruction (passen- rcraft)	: 964	
Enviro	onmentally hazardous	: yes	
	-Code		
	umber er shipping name	: UN 3082 : ENVIRONMEN	TALLY HAZARDOUS SUBSTANCE, LIQUID
Fiohe		N.O.S.	TALLI HAZANDOOD JODD TANGE, LIQUIL



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		(oxyclozanide)
Transport hazard class(es)	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

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

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

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

Environmental Protection and Management Act and	:	Not applicable	
Environmental Protection and Management (Hazard-			
ous Substances) Regulations			

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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

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

Section 16: Other information

Revision Date	:	06.07.2024
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/

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

Date format

dd.mm.yyyy

:



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Full text of other abbreviations

SG OEL

Singapore. Workplace Safety and Health (General Provisions) Regulations - First Schedule Permissible Exposure Limits of Toxic Substances.

SG OEL / PEL (long term) : Permissible Exposure Level (PEL) Long Term

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

SG / EN