UK REACH Regulations SI 2019/758

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

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.1	28.09.2024	10858482-00009	Date of first issue: 29.09.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Levamisole (6.5%) / Oxyclozanide (13%) Formulation
Other means of identification	:	COOPERS NILZAN LV ORAL DRENCH (36089)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	:	Veterinary product	
Recommended restrictions on use	:	Not applicable	

1.3 Details of the supplier of the safety data sheet

Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
Telephone	:	+1-908-740-4000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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.



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

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.1	28.09.2024	10858482-00009	Date of first issue: 29.09.2022

2.2 Label elements

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

Hazard pictograms	:		
Signal word	:	Danger	•
Hazard statements	:	H318 H361d H371 H373 H411	Causes serious eye damage. Suspected of damaging the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention	:
Precautionary statements	:	P201	Obtain special instructions before use.
Precautionary statements	:		
Precautionary statements	:	P201 P273	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary statements	:	P201 P273 P280 Response:	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. 51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins-
Precautionary statements	:	P201 P273 P280 Response:	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. 51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must 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. Classification	Concentration
--------------------------------------	---------------

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



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

Version 5.1	Revision Date: 28.09.2024	SDS Number: 10858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022	
		EC-No. Index-No. Registration	number	(% w/w)
OXy	vclozanide	2277-92-1 218-904-0	Repr. 2; H361d STOT SE 2; H371 (Central nervous system) STOT RE 2; H373 (Brain, Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
Sili	cic acid, aluminum salt	1335-30-4 215-628-2	Eye Dam. 1; H318	>= 3 - < 10
lev	amisole 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
Cit	ric 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.

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



Versio 5.1	n Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.07.310858482-00009Date of first issue: 29.09.3		
		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.		
lf	swallowed	 If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconse 	vious person.	
4.2 Mo	ost important symptoms	d effects, both acute and delayed		
R	isks	 Causes serious eye damage. Suspected of damaging the unborn child. May cause damage to organs. May cause damage to organs through prolo exposure. 	nged or repeated	
4.3 Inc	lication of any immediat	edical attention and special treatment neede	ed	
	reatment	: Treat symptomatically and supportively.		
SECT	ION 5: Firefighting me	ures		
5 1 Ev	tinguishing media			
	uitable extinguishing medi	: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
	nsuitable extinguishing edia	: None known.		
5.2 Sp	ecial hazards arising fro	he substance or mixture		
S	pecific hazards during fire ghting	: Exposure to combustion products may be a	hazard to health.	
	azardous combustion pro cts	: Carbon oxides Chlorine compounds Nitrogen oxides (NOx)		
5.3 Ac	vice for firefighters			
S	pecial protective equipme r firefighters	: In the event of fire, wear self-contained brea Use personal protective equipment.	thing apparatus.	



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

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.07.2024
5.1		10858482-00009	Date of first issue: 29.09.2022
Specif ods	ic extinguishing meth-	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate contained Clean up remaining materials from spill with suitable absorbent. 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 determine 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.

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



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

Vers 5.1	sion	Revision Date: 28.09.2024		0S Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
Hygiene measures :		:	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. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.		
7.2 (Conditi	ons for safe storage,	incl	uding any incom	patibilities
	•	ements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national
	Advice	e on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents
7.3 \$	Specifi	c end use(s)			
	-	c use(s)	:	No data available	

Specific use(s)

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
Silicic acid, alumi- num salt	1335-30-4	TWA	2 mg/m3 (Aluminium)	GB EH40
levamisole hydro- chloride	16595-80-5	TWA	20 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	200 μg/100 cm²	Internal

Derived No Effect Level (DNEL)

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



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

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.07.2024
5.1		10858482-00009	Date of first issue: 29.09.2022

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)

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.)
	Marine sediment	3.46 mg/kg dry weight (d.w.)
	Soil	33.1 mg/kg dry weight (d.w.)
Silicic acid, aluminum salt	Fresh water	4.1 mg/l
	Freshwater - intermittent	25 mg/l
	Marine water	0.082 mg/l

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 Hand 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	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec-

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



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

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.07.2024
5.1		10858482-00009	Date of first issue: 29.09.2022
Fil	lter type		elines, use respiratory protection. Id conform to BS EN 143 e (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical	un	a onemical properti
Appearance Colour Odour Odour Threshold	:	suspension yellow No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	No data available Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive

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



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

Version 5.1	Revision Date: 28.09.2024	SDS Number: 10858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022	
Oxidizing properties		: The substance or mixture is not classified as oxidizing.		
	information mability (liquids)	: No data availa	able	
Mole	cular weight	: No data availa	able	
Parti	cle size	: Not applicable		

SECTION 10: Stability and reactivity

10.1 Reactivity	
Not classified as a reactivity	ity hazard.
10.2 Chemical stability	
Stable under normal condi	litions.
10.3 Possibility of hazardous	s reactions
Hazardous reactions	: Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: None known.
10.5 Incompatible materials	
Materials to avoid	: Oxidizing agents
10.6 Hazardous decomposition	on products
No hazardous decomposit	tion products are known.
SECTION 11: Toxicologica	al information
·	
11.1 Information on toxicolog	gical effects
Information on likely routes	es of : Inhalation
exposure	Skin contact
	Ingestion

Acute toxicity

Not classified based on available information.

Product:

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

Eye contact

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



rsion	Revision Date: 28.09.2024		DS Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
Com	oonents:			
oxycl	ozanide:			
Acute	oral toxicity	:	LD50 (Rat): 3,519 Target Organs: C) mg/kg entral nervous system
	toxicity (other routes of histration)	:	LDLo (sheep): 10 Application Route	
Silici	c acid, aluminum salt:			
Acute	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
levan	nisole hydrochloride:			
Acute	oral toxicity	:	LD50 (Rat): 180 r	ng/kg
			LD50 (Mouse): 22	23 mg/kg
			LD50 (Rabbit): 45	i8 mg/kg
Acute	inhalation toxicity	:	Remarks: No data	a available
Acute	e dermal toxicity	:	Remarks: No data	a available
Citric	acid:			
Acute	oral toxicity	:	LD50 (Mouse): 5,	400 mg/kg
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 substance or mixture has no acute derma
	corrosion/irritation lassified based on availa	ble	information.	
<u>Com</u>	oonents:			
oxycl	ozanide:			
Rema	arks	:	Not classified due	to lack of data.
Silici	c acid, aluminum salt:			
Speci	es	:	Rabbit	
Metho		:	OECD Test Guide	eline 404

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



sion	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.07.202410858482-00009Date of first issue: 29.09.2022
Resul Rema		No skin irritationBased on data from similar materials
	nisole hydrochloride	
Rema	rks	: No data available
Citric	acid:	
Speci		: Rabbit
Metho Resul		: OECD Test Guideline 404 : No skin irritation
	us eye damage/eye	
	es serious eye damag	е.
<u>Comp</u>	oonents:	
-	ozanide:	
Rema	rks	: Not classified due to lack of data.
Silicio	c acid, aluminum sa	t:
Speci		: Chicken eye
Metho	od	: Chorioallantoic membrane vascularization assay
Resul	t	: Irreversible effects on the eye
levam	nisole hydrochloride	:
Rema	rks	: No data available
Citric	acid:	
Speci		: Rabbit
Metho Resul	-	: OECD Test Guideline 405: Irritation to eyes, reversing within 21 days
Respi	iratory or skin sensi	isation
-	sensitisation	
	assified based on ava	ilable information.
Respi	ratory sensitisation	
Not cl	assified based on ava	ilable information.
<u>Comp</u>	oonents:	
oxycl	ozanide:	
	sure routes	: Dermal
Rema	rks	: Not classified due to lack of data.

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



Version 5.1	Revision Date: 28.09.2024		0S Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
Test ⁻	sure routes les od	:	Local lymph node Skin contact Mouse OECD Test Guide negative	
levan Rema	n isole hydrochloride: arks	:	No data available	
Not c	a cell mutagenicity lassified based on availa ponents:	able	information.	
-	l ozanide: toxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test system: Hun Result: positive	
Geno	toxicity in vivo	:	Test Type: Mouse Result: positive Test Type: Micror Species: Mouse Application Route Result: negative	nucleus test
			-	
Germ sessn	cell mutagenicity- As- nent	:	Weight of evidend cell mutagen.	e does not support classification as a germ
	c acid, aluminum salt: toxicity in vitro	:	Result: negative Test Type: Chrom Result: negative	ial reverse mutation assay (AMES) nosome aberration test in vitro on data from similar materials
Geno	toxicity in vivo	:	Test Type: Mutag	enicity (in vivo mammalian bone-marrow chromosomal analysis)

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



ersion 1	Revision Date: 28.09.2024		OS Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
			Species: Rat Application Rou Result: negative Remarks: Based	
	nisole hydrochloride:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: Chro Result: negative	mosome aberration test in vitro
Citric	acid:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: in vit Result: positive	ro micronucleus test
			Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:		
	nogenicity lassified based on avail	ahla	information	
	oonents:	abic	intornation.	
oxycl	ozanide:			
Rema	arks	:	Not classified du	e to lack of data.
Silici	c acid, aluminum salt:			
Speci		:	Rat	
	cation Route	:	Ingestion	
	sure time It	:	104 weeks negative	
Resul	•	•		rom similar materials
Resul Rema	arks	:	Dased on data h	
Rema	arks nisole hydrochloride:	:	Dased on data i	
Rema levan Speci	n isole hydrochloride: es	:	Mouse	
Rema levan Speci Applic	nisole hydrochloride:	:		

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



Versi 5.1	ion	Revision Date: 28.09.2024		9S Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
F	Remark	(S	:	No significant adv	rerse effects were reported
/ E N		tion Route ire time -	:	Rat Oral 2 Years 40 mg/kg body we No significant adv	eight rerse effects were reported
	-	luctive toxicity ted of damaging the u	nbo	rn child.	
<u>(</u>	Compo	onents:			
	-	zanide: on fertility	:	Species: Rat, mal Application Route General Toxicity -	: Oral Parent: NOAEL: 25 - 35 mg/kg body weight ced body weight, No effects on embryofoetal relopment
				Species: Rat Application Route General Toxicity - weight	Parent: LOAEL: 75 - 100 mg/kg body ced body weight, No effects on embryofoetal relopment
				Species: Rat Application Route Early Embryonic I weight	eneration reproduction toxicity study : Oral Development: LOAEL: 75 - 100 mg/kg body sicity, No teratogenic effects
				Species: Rat Application Route General Toxicity - weight	eneration reproduction toxicity study : Oral Parent: LOAEL: 80 - 160 mg/kg body sicity, No teratogenic effects, No effects on
	Effects ment	on foetal develop-	:		

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



Version 5.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.07.202410858482-00009Date of first issue: 29.09.2022	
		Test Type: Development Species: Rat Application Route: Oral General Toxicity Maternal: LOAEL: 100 mg/kg body we Result: No fetotoxicity, No teratogenic effects	ight
		Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 32 mg/kg body weigh Result: Fetotoxicity, Skeletal malformations	t
	productive toxicity - As- sment	: Suspected of damaging the unborn child.	
Sil	cic acid, aluminum salt:		
Eff me	ects on foetal develop- nt	 Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials 	
	amisole hydrochloride:		
Eff	ects on fertility	: Test Type: Three-generation reproduction toxicity study Species: Rat Application Route: Oral Result: No significant adverse effects were reported	1
Eff me	ects on foetal develop- nt	 Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 20 mg/kg body weigh Result: Fetotoxicity 	t
		Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 40 mg/kg body weight Result: Fetotoxicity	t
	productive toxicity - As- ssment	: Some evidence of adverse effects on development, bas animal experiments.	sed on
Cit	ric acid:		
	ects on foetal develop-	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative	

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



Ver 5.1	sion	Revision Date: 28.09.2024		9S Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
	STOT	- single exposure			
	May ca	ause damage to organs			
	Compo	onents:			
	oxyclo	zanide:			
		ure routes Organs sment	: : :	Oral Central nervous s May cause damag	
	Citric a	acid:			
	Assess		:	May cause respira	atory irritation.
		- repeated exposure ause damage to organs	thr	ough prolonged or	repeated exposure.
	Compo	onents:			
	-	zanide:			
	Target Assess	Organs sment	:	Brain, Liver May cause damag exposure.	ge to organs through prolonged or repeated
	levami	sole hydrochloride:			
	Target Assess	Organs sment	:	Blood, Testis May cause damag exposure.	ge to organs through prolonged or repeated
	Repea	ted dose toxicity			
	Compo	onents:			
	oxyclo	zanide:			
	Specie NOAEI LOAEL Applica Exposi	s _ ation Route ure time Organs		Rat 9 mg/kg 44.5 mg/kg Oral 3 Months Brain, Liver, splee Liver effects	en, Adrenal gland
	Exposi	ation Route ure time Organs		Dog 5 mg/kg 25 mg/kg Oral 3 Months Brain, Liver blood effects, alte	ration in liver enzymes

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



Version 5.1	Revision Date: 28.09.2024	SDS Number: 10858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
Silic	ic acid, aluminum sal	t:	
	EL ication Route osure time	: Rat : > 100 mg/kg : Ingestion : 104 Weeks : Based on data	from similar materials
levar	misole hydrochloride	:	
Spec NOA Appli Expo	cies	: Rat : 2.5 mg/kg : Oral : 18 Months : Testis	
Expo		: Dog : 20 mg/kg : Oral : 18 Months : Blood	
		: Dog : 40 mg/kg : Oral : 3 Months	
Citrie	c acid:		
	EL	: Rat : 4,000 mg/kg : 8,000 mg/kg : Ingestion : 10 Days	
•	ration toxicity classified based on ava	ilable information.	
<u>Com</u>	ponents:		
-	: lozanide: applicable		
Expe	erience with human e	xposure	
<u>Com</u>	ponents:		
oxyc Inges	: lozanide: stion	: Symptoms: Ma nervous systen	y cause, Gastrointestinal disturbance, Central n depression
levar	misole hydrochloride	•	



Version 5.1	Revision Date: 28.09.2024			Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
Inges	tion	:	Symptoms: Nausea tension	a, Vomiting, Headache, Dizziness, hypo-
SECTION	12: Ecological infor	ma	tion	
2.1 Toxic	city			
Com	ponents:			
охус	lozanide:			
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia ma Exposure time: 48 Method: OECD Tes	
M-Fa icity)	ctor (Acute aquatic tox-	:	1	
M-Fa toxici	ctor (Chronic aquatic ty)	:	1	
Silici	c acid, aluminum salt:			
	Disticology Assessment nic aquatic toxicity		No toxicity at the lir	nit of solubility
levan	nisole hydrochloride:			
Toxic	ity to fish	:	LC50 (Oryzias latip Exposure time: 96 Method: OECD Tes	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia ma Exposure time: 48 Method: OECD Te	
Citric	acid:			
	ity to fish	:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): > 100 mg/l h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia ma Exposure time: 24	igna (Water flea)): 1,535 mg/l h
12.2 Persi	istence and degradabil	ity		
Com	ponents:			
	lozanide: lity in water	:	Hydrolysis: 50 %(1 Method: OECD Tes	

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



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

Ver 5.1	sion	Revision Date: 28.09.2024		DS Number: 1858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
	Citric a Biodeg	acid: ıradability	:	Result: Readily b Biodegradation: Exposure time: 24 Method: OECD T	97 %
12.3	3 Bioac	cumulative potential			
	Comp	onents:			
	-	ozanide: on coefficient: n- l/water	:	log Pow: 3.99 pH: 7 Method: OECD T	est Guideline 107
	Citric a Partitic octano	n coefficient: n-	:	log Pow: -1.72	
12.4	4 Mobili	ty in soil			
	Comp	onents:			
	Distrib	zanide: ution among environ- compartments	:	log Koc: 4.83 Method: OECD T	est Guideline 106
12.	5 Result	ts of PBT and vPvB a	sse	ssment	
	<u>Produ</u> Assess		:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6	6 Other	adverse effects			
	<u>Produ</u> Endoci tial	<u>ct:</u> rine disrupting poten-	:	ered to have end	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).
SE	CTION	13: Disposal consid	dera	ations	

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.



Version 5.1	Revision Date: 28.09.2024		DS Number: 0858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022		
Conta	minated packaging	:	discussion with th Do not dispose o Empty containers dling site for recy	ould be assigned by the user, preferably in he waste disposal authorities. f waste into sewer. s should be taken to an approved waste han- rcling or disposal. specified: Dispose of as unused product.		
SECTION	14: Transport infor	mat	tion			
14.1 UN nu	umber					
ADN		:	UN 3082			
ADR		:	UN 3082			
RID		:	UN 3082			
IMDG		:	UN 3082			
ΙΑΤΑ		:	UN 3082			
14.2 UN proper shipping name						
ADN		:	ENVIRONMENT N.O.S. (oxyclozanide)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
ADR		:	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (oxyclozanide)			
RID		:	ENVIRONMENT N.O.S. (oxyclozanide)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
IMDG		:	ENVIRONMENT N.O.S. (oxyclozanide)	ALLY HAZARDOUS SUBSTANCE, LIQUID,		
ΙΑΤΑ		:	Environmentally (oxyclozanide)	hazardous substance, liquid, n.o.s.		
14.3 Trans	port hazard class(es)					
			Class	Subsidiary risks		
ADN		:	9			
ADR		:	9			
RID		:	9			
IMDG		:	9			
ΙΑΤΑ		:	9			
14.4 Packi	ng group					
ADN Packir	ng group	:	ш			

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



Vers 5.1	sion	Revision Date: 28.09.2024		0S Number: 858482-00009	Date of last issue: 06.07.2024 Date of first issue: 29.09.2022
		cation Code Identification Number	:	M6 90 9	
	Hazard Labels Tunnel	g group cation Code Identification Number restriction code	:	III M6 90 9 (-)	
		g group cation Code Identification Number	:	III M6 90 9	
	IMDG Packing Labels EmS Co		:	III 9 F-A, S-F	
	aircraft)	g instruction (cargo) g instruction (LQ)	:	964 Y964 III Miscellaneous	
	Packing ger airc	g instruction (LQ)	:	964 Y964 III Miscellaneous	
14.5	Enviro	nmental hazards			
		mentally hazardous	:	yes	
	ADR Environ	mentally hazardous	:	yes	
	RID Environ	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) Imentally hazardous	:	yes	
	IATA (C Environ	Cargo) Imentally hazardous	:	yes	



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

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.1	28.09.2024	10858482-00009	Date of first issue: 29.09.2022

14.6 Special precautions for user

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

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

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (A	nnex 17)	:	Conditions of restr lowing entries sho Number on list 3	riction for the fol- uld be considered:
UK REACH Candidate list of sub		:	here according to in the regulation, in use/purpose or the restriction. Please tions in correspon- determine whethe	rrespective of their e conditions of the refer to the condi- ding Regulation to
concern (SVHC) for Authorisation The Persistent Organic Pollutants		:	Not applicable	
Regulation (EU) 2019/1021 as ar ain)	mended for Great Brit-			
Regulation (EC) on substances the layer	hat deplete the ozone	:	Not applicable	
UK REACH List of substances su (Annex XIV)	ubject to authorisation	:	Not applicable	
GB Export and import of hazardo Informed Consent (PIC) Regulati		:	Not applicable	
Control of Major Accident Hazard		OMA	AH)	
-	-		Quantity 1	Quantity 2
E2	ENVIRONMENTAL HAZARDS		200 t	500 t

Other regulations:

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

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive



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

VersionRevision Date:SDS Number:Date of last issue: 06.075.128.09.202410858482-00009Date of first issue: 29.09	
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94/33/EC on the protection of young people at work.

 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 inform	mation
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-Statemen	ts
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 exposure if swallowed.
H400	: Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
Full text of other abbre	viations
Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
ADN - European Agreem	nent concerning the International Carriage of Dangerous Goods by Inland

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 -

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



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

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.1	28.09.2024	10858482-00009	Date of first issue: 29.09.2022

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	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the mixtur	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

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

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



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

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
5.1	28.09.2024	10858482-00009	Date of first issue: 29.09.2022

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