

Version 8.1			S Number: /372-00020	Date of last issue: 04.04.2023 Date of first issue: 28.01.2016
Section 1	: Identification			
Produ	uct name	:	Flunixin Liquid	Formulation
Manu	ufacturer or supplier's d	etai	ls	
Comp	pany	:	MSD	
Addre	ess	:	33 Whakatiki S Upper Hutt - N	street - Private Bag 908 ew Zealand
Telep	bhone	:	0800 800 543	
Emer	rgency telephone number	:	0800 764 766 CHEMCALL)	(0800 POISON) 0800 243 622 (0800
E-ma	uil address	:	EHSDATASTE	WARD@msd.com
Reco	ommended use of the ch	em	ical and restric	tions on use
	mmended use rictions on use	:	Veterinary proe Not applicable	duct
Section 2	: Hazard identification			
GHS	Classification			
	e toxicity (Oral)	:	Category 4	
Acute	e toxicity (Inhalation)	:	Category 3	
Serio tation	ous eye damage/eye irri-	:	Category 1	
Repro	oductive toxicity	:	Category 1	
	ific target organ toxicity - ated exposure	:	Category 2 (Ga	astrointestinal tract, Kidney, Blood)
	rdous to the aquatic onment - chronic hazard	:	Category 3	
GHS	label elements			
Haza	rd pictograms	:		$\land \land$

Signal word

: Danger

SAFETY DATA SHEET



Flunixin Liquid Formulation

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Hazaı	rd statements	H331 Toxic if i H360FD May o H373 May cau Kidney, Blood)	serious eye damage.
Precautionary statements		P260 Do not b P264 Wash sk P270 Do not e P271 Use only P273 Avoid re	pecial instructions before use. preathe mist or vapours. sin thoroughly after handling. eat, drink or smoke when using this product. y outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec- pection.
		CENTER/ doc P304 + P340 - and keep com doctor. P305 + P351 - water for seve and easy to do CENTER/ doc	 + P330 IF SWALLOWED: Call a POISON tor if you feel unwell. Rinse mouth. + P311 IF INHALED: Remove person to fresh a fortable for breathing. Call a POISON CENTER + P338 + P310 IF IN EYES: Rinse cautiously wi ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON tor. IF exposed or concerned: Get medical advice/
		Storage: P405 Store loo	cked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do n o known.	ot result in classifica	ation

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
L-Menthol	2216-51-5	>= 10 -< 20
2-Pyrrolidone	616-45-5	>= 10 -< 20
1-deoxy-1-(methylamino)-D-glucitol 2-[2-	42461-84-7	>= 3 -< 10
methyl-3-(perfluoromethyl)anilino]nicotinate		



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tion 4: First-aid measures	
General advice	 In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medica advice.
If inhaled	 If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	 In case of contact, immediately flush skin with soap and plent 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 wate 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 and effects, both acute and delayed	 Harmful if swallowed. Causes serious eye damage. Toxic if inhaled. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated 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).
Notes to physician	: Treat symptomatically and supportively.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Fluorine compounds Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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	ial protective equipment efighters	:	Remove undar so. Evacuate area In the event of	ay to cool unopened containers. maged containers from fire area if it is safe to de fire, wear self-contained breathing apparatus. protective equipment.
Section 6	: Accidental release me	eas	ures	
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe ha	protective equipment. ndling advice (see section 7) and personal pro- ent recommendations (see section 8).
Envir	onmental precautions	:	Prevent further Prevent spread barriers). Retain and dis	to the environment. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or oi pose of contaminated wash water. es should be advised if significant spillages cained.
	Methods and materials for containment and cleaning up		Soak up with inert absorbent material. For large spills, provide dyking or other appropriate con ment to keep material from spreading. If dyked materia be pumped, store recovered material in appropriate con Clean up remaining materials from spill with suitable ab bent. Local or national regulations may apply to releases and posal of this material, as well as those materials and ite employed in the cleanup of releases. You will need to of mine which regulations are applicable. Sections 13 and 15 of this SDS provide information reg certain local or national requirements.	
Section 7	: Handling and storage	•		
Local	Technical measures Local/Total ventilation Advice on safe handling		CONTROLS/P If sufficient ver ventilation. Do not get on s	

Do not get in eyes. Wash skin thoroughly after handling.

Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

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.



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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. 				
Cond	itions for safe storage	Store locked up Keep tightly close				
Mate	rials to avoid		ance with the particular national regulations. h the following product types:			

Section 8: Exposure controls/personal protection

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
1-deoxy-1-(methylamino)-D- glucitol 2-[2-methyl-3- (perfluorome- thyl)anilino]nicotinate	42461-84-7	TWA	40 µg/m3 (OEB 3)	Internal
	Further information: Skin			
		Wipe limit	400 µg/100 cm ²	Internal

Components with workplace control parameters

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 con- tainment devices). Minimize open handling.
Personal protective equipment	

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo-
		sure assessment demonstrates exposures outside the rec-
		ommended guidelines, use respiratory protection.
Filter type	:	Combined particulates and organic vapour type
Hand protection		



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М	aterial	: Chemical-res	istant gloves	
Remarks Eye protection		If the work en mists or aero Wear a faces	ble gloving. glasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a lirect contact to the face with dusts, mists, or	
Skin and body protection		Additional bo task being pe posable suits Use appropria	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 contaminated clothing.	

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	red
Odour	:	amine-like
Odour Threshold	:	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
Flammability (liquids)	:	No data available
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



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De	ensity	:	No data available	9
So	blubility(ies) Water solubility	:	No data available	9
	artition coefficient: n- tanol/water	:	Not applicable	
	ito-ignition temperature	:	No data available	9
De	ecomposition temperature	:	No data available	9
Vi	scosity Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	Not explosive	
O	kidizing properties	:	The substance o	r mixture is not classified as oxidizing.
M	plecular weight	:	No data available	9
Pa	article size	:	Not applicable	

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

Exposure routes	: Inhalation Skin contact Ingestion Eye contact	
Acute toxicity Harmful if swallowed. Toxic if inhaled.		
Product:		
Acute oral toxicity	: Acute toxicity estimate: 638.55 mg/kg Method: Calculation method	
Acute inhalation toxicity	: Acute toxicity estimate: 0.6145 mg/l Exposure time: 4 h	



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			Test atmospher Method: Calcula	
Comp	oonents:			
L-Mer	nthol:			
Acute	inhalation toxicity	:	LC50 (Rat): 5.22 Exposure time: Test atmospher Method: OECD	4 h
Acute	dermal toxicity	:	LD50 (Rabbit): : Method: OECD	> 5,000 mg/kg Test Guideline 402
2-Pyr	rolidone:			
Acute	oral toxicity	:		,000 mg/kg Test Guideline 401 ne substance or mixture has no acute oral to
Acute	dermal toxicity	:		> 2,000 mg/kg Test Guideline 402 le substance or mixture has no acute derma
1-deo	xy-1-(methylamino)-D	-glu	citol 2-[2-methy	-3-(perfluoromethyl)anilino]nicotinate:
	oral toxicity	:	LD50 (Rat): 53	
			LD50 (Mouse):	176 - 249 mg/kg
			LD50 (Guinea p	ig): 488.3 mg/kg
			LD50 (Monkey)	300 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): < 0 Exposure time: Test atmospher	4 h
	toxicity (other routes of istration)	:	LD50 (Rat): 59.4 Application Rou	4 - 185.3 mg/kg te: Intraperitoneal
				164 - 363 mg/kg te: Intraperitoneal
<u>Skin</u>	corrosion/irritation			

Components:

L-Menthol:



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Me	ecies ethod esult	: Rabbit : OECD Test G : Skin irritation	uideline 404
2-1	Pyrrolidone:		
	ecies	: Rabbit	
	ethod esult	: OECD Test G : No skin irritation	
		-D-glucitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
	ecies esult	: Rabbit : Mild skin irritat	ion
	rious eye damage/eye		
	uses serious eye damag	je.	
	omponents:		
	Menthol:	Datati	
	ecies esult	: Rabbit : Irritation to eye	es, reversing within 7 days
Me	ethod	: OECD Test G	
2-1	Pyrrolidone:		
	ecies esult	: Rabbit	es, reversing within 7 days
Re	suit	. Initation to eye	es, reversing within 7 days
			yl-3-(perfluoromethyl)anilino]nicotinate:
	ecies sult	: Rabbit	ects on the eye
	Jun		
Re	spiratory or skin sensi	tisation	
	in sensitisation at classified based on ava	ailable information.	
Re	spiratory sensitisation		
	t classified based on ava		
<u>Cc</u>	omponents:		
L-I	Menthol:		
	st Type		ode assay (LLNA)
	posure routes ecies	: Skin contact : Mouse	
Me	ethod	: OECD Test G	uideline 429
Re	esult	: negative	



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2-Pyr	rolidone:		
Test 7	Гуре	: Local lymp	h node assay (LLNA)
	sure routes	: Skin contac	
Speci		: Mouse	
Metho	bd	: OECD Tes	t Guideline 429
Resu		: negative	
Rema	arks	: Based on c	lata from similar materials
1-dec	oxy-1-(methylamino)-D-glucitol 2-[2-m	ethyl-3-(perfluoromethyl)anilino]nicotinate:
Test 7	Гуре	: Maximisati	on Test
	sure routes	: Dermal	
Speci	es	: Guinea pig	
Asses	ssment	: Does not c	ause skin sensitisation.
Resul	lt	: negative	
Chro	nic toxicity		
	cell mutagenicity lassified based on av	vailable information.	
<u>Com</u>	oonents:		
L-Me	nthol:		
Geno	toxicity in vitro	: Test Type:	Chromosome aberration test in vitro
		Result: neg	
		Remarks: E	Based on data from similar materials
Geno	toxicity in vivo		Mammalian erythrocyte micronucleus test (in vivo
		cytogenetic	
		Species: M	Route: Intraperitoneal injection
			ECD Test Guideline 474
		Result: neg	
			Based on data from similar materials
2-Pyr	rolidone:		
-	toxicity in vitro	: Test Type:	Bacterial reverse mutation assay (AMES)
Conto		Result: neg	
			In vitro mammalian cell gene mutation test
			ECD Test Guideline 476
		Result: neg Remarks: E	ative Based on data from similar materials
		Test Type:	Chromosome aberration test in vitro
			ECD Test Guideline 473
Geno	toxicity in vivo		Mammalian erythrocyte micronucleus test (in vivo
		cytogenetic	cassay)



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			Route: Intraperitoneal injection CD Test Guideline 474 ative
1-deo	xy-1-(methylamino)	-D-glucitol 2-[2-me	ethyl-3-(perfluoromethyl)anilino]nicotinate:
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			n vitro assay n: mouse lymphoma cells tive
			Chromosomal aberration n: Chinese hamster ovary cells tive
			n vitro assay n: Escherichia coli tive
Geno	toxicity in vivo	: Test Type: Species: Me Application Result: neg	Route: Oral
	cell mutagenicity - ssment	: Weight of e cell mutage	vidence does not support classification as a ger n.
Carci	nogenicity		
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
L-Mei	nthol:		
	cation Route sure time od t	: negative	Guideline 453 ata from similar materials
2-Pvr	rolidone:		
Speci Applic Expos Resul	es cation Route sure time t	: Mouse : Ingestion : 18 month(s : negative	
Remarks : Based on data from similar materials			

Species

: Rat



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Expos LOAE Resul Targe	lt et Organs	: oral (feed) : 104 w : 2 mg/kg body : negative : Gastrointestin	nal tract
Rema	arks	: Significant to	kicity observed in testing
Expos NOAE Resu	cation Route sure time EL It of Organs	 Mouse oral (feed) 97 w 0.6 mg/kg bod negative Gastrointestin Significant tox 	
Repro	oductive toxicity		
	damage fertility. May da	mage the unborn cl	nild.
	ponents:		
	nthol: ts on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion ive
2-Pyr	rolidone:		
Effect	ts on fertility	Species: Rat Application Re Result: positiv	ne-generation reproduction toxicity study oute: Ingestion /e sed on data from similar materials
Effect ment	ts on foetal develop-	Species: Rat	nbryo-foetal development oute: Ingestion /e
Repro sessn	oductive toxicity - As- nent	ity, based on	e of adverse effects on sexual function and fer animal experiments., Clear evidence of advers velopment, based on animal experiments.
1-dec	oxy-1-(methylamino)-E	-glucitol 2-[2-meth	nyl-3-(perfluoromethyl)anilino]nicotinate:
	ts on fertility	: Test Type: Tv Species: Rat Application Re General Toxic Symptoms: N	vo-generation reproduction toxicity study oute: Oral city - Parent: LOAEL: 1 - 1.5 mg/kg body weigh o foetal abnormalities fects on fertility and early embryonic develop-



1	Revision Date: 30.09.2023	SDS Number: 437372-00020	Date of last issue: 04.04.2023 Date of first issue: 28.01.2016
Effec ment	ts on foetal develop-	Embryo-foetal Result: Embryo	
		Species: Rabb Application Ro General Toxici Embryo-foetal Result: Embryo	
STO	Γ - single exposure		
	lassified based on ava	ilable information.	
Not c			
	ponents:		
Com	ponents:		yl-3-(perfluoromethyl)anilino]nicotinate:
<u>Com</u> 1-deo	ponents:	D-glucitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate: piratory irritation.
Com 1-dec Asse STO	ponents: oxy-1-(methylamino)- ssment F - repeated exposure	D-glucitol 2-[2-meth) : May cause res	
Com 1-dec Asse STO May o peate	ponents: oxy-1-(methylamino)- ssment F - repeated exposur e cause damage to orga	D-glucitol 2-[2-meth) : May cause res	piratory irritation.
Com 1-dec Asse STO May of peate Com	ponents: pxy-1-(methylamino)- ssment F - repeated exposur cause damage to orga ed exposure. ponents:	D-glucitol 2-[2-meth) : May cause res e ns (Gastrointestinal tr	piratory irritation.

Repeated dose toxicity

Components:

L-Menthol:	
Species:NOAEL:Application Route:Exposure time:Method:Remarks:	Mouse 1,250 mg/kg Ingestion 91 Days OECD Test Guideline 408 Based on data from similar materials
2-Pyrrolidone:Species:NOAEL:Application Route:	Rat 207 mg/kg Ingestion



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Expos	sure time	: 3 Months	
Metho		: OECD Test Gu	ideline 408
1-deo	oxy-1-(methylamino)	-D-glucitol 2-[2-methy	/l-3-(perfluoromethyl)anilino]nicotinate
Expos	EL	: Rat : 2 mg/kg : < 4 mg/kg : Oral : 6 w : Gastrointestina	I tract
Expos		: Rat : 1 mg/kg : Oral : 1 y : Gastrointestina	ıl tract, Kidney
Expos		: Monkey : 15 mg/kg : Oral : 90 d : Gastrointestina	ıl tract, Blood
	EL cation Route sure time	: Rabbit : 80 mg/kg : Dermal : 21 d : Severe irritatio	n
Expos	L cation Route sure time t Organs	: Dog : 11 mg/kg : Oral : 9 d : Gastrointestina : Vomiting	I tract

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:

Inhalation	: Symptoms: respiratory tract irritation
Skin contact	: Symptoms: Skin irritation
Eye contact	: Symptoms: Severe irritation
Ingestion	: Symptoms: Gastrointestinal disturbance, bleeding, hyperten- sion, Kidney disorders



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Section 12: Ecological information

Ecotoxicity				
Components:				
L-Menthol:				
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 15.6 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 26.6 mg/l Exposure time: 48 h Method: Directive 67/548/EEC, Annex V, C.2.		
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 21.4 mg/l Exposure time: 72 h Method: Directive 67/548/EEC, Annex V, C.3.		
		NOEC (Desmodesmus subspicatus (green algae)): 9.65 mg/l Exposure time: 72 h Method: Directive 67/548/EEC, Annex V, C.3.		
Toxicity to microorganisms	:	EC50: 237 mg/l Exposure time: 96 h Test Type: Respiration inhibition of activated sludge Method: OECD Test Guideline 209		
2-Pyrrolidone:				
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 4,600 - 10,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h		
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l Exposure time: 72 h		
		EC10 (Desmodesmus subspicatus (green algae)): 22.2 mg/l Exposure time: 72 h		
Toxicity to microorganisms	:	EC50: > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209		
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:				
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 28 mg/l Exposure time: 96 h Method: FDA 4.11		



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			LC50 (Oncorhy Exposure time: Method: FDA 4	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time: Method: FDA 4	
Toxic plants	ity to algae/aquatic S	:	NOEC (Microcy Exposure time: Method: FDA 4	
			NOEC (Selena Exposure time:	strum capricornutum (green algae)): 96 mg 12 d
Persi	stence and degradabil	ity		
Com	ponents:			
-	nthol:			
Biode	gradability	:	Biodegradation Exposure time:	
2-Pyr	rolidone:			
-	egradability	:		biodegradable. d on data from similar materials
1-dec	oxy-1-(methylamino)-D-	glu	citol 2-[2-methy	rl-3-(perfluoromethyl)anilino]nicotinate:
Stabil	lity in water	:	Hydrolysis: 0 %	o(28 d)
Bioad	ccumulative potential			
Com	ponents:			
L-Me	nthol:			
Bioac	cumulation	:	Bioconcentratic Exposure time: Method: OECD	nus carpio (Carp) on factor (BCF): 0.5 - 15 6 Weeks Test Guideline 305 od on data from similar materials
	ion coefficient: n- ol/water	:	log Pow: 3.15	
2-Pyr	rolidone:			
	ion coefficient: n- ol/water	:	log Pow: -0.71 Method: OECD	Test Guideline 107



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1-deo	xy-1-(methylamino)	-D-glucitol 2-[2-methy	yl-3-(perfluoromethyl)anilino]nicotinate:
	on coefficient: n- ol/water	: log Pow: 1.34	
Mobil	ity in soil		
Comp	oonents:		
1-deo	oxy-1-(methylamino)	-D-glucitol 2-[2-methy	yl-3-(perfluoromethyl)anilino]nicotinate:
	oution among environ al compartments	- : log Koc: 1.92	
Other	adverse effects		
No da	ita available		
ection 13	3: Disposal conside	rations	
Dispo	osal methods		
Waste	e from residues		e of waste into sewer. accordance with local regulations.
Conta	minated packaging	: Empty containe dling site for re	ers should be taken to an approved waste han cycling or disposal. e specified: Dispose of as unused product.
action 1	4: Transport informa	tion	

International Regulations

UNRTDG UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number Proper shipping name Class	:	Not applicable Not applicable Not applicable



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Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable for product as supplied.

National Regulations

NZS 5433		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Not applicable

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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	:	30.09.2023
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/



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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 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.

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