

Flunixin Liquid Formulation

Commission Regulation (EU) 2020/878

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
6.13	28.09.2024	493850-00026	Date of first issue: 28.01.2016

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

1.1	Product identifier		
	Trade name	:	Flunixin Liquid Formulation
	Other means of identification	:	FINADYNE TRANSDERMAL (A11281)
1.2	Relevant identified uses of th	e s	ubstance 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	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	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)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 3	H331: Toxic if inhaled.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Long-term (chronic) aquatic hazard, Cat- egory 3	H412: Harmful to aquatic life with long lasting effects.
Labal damanta	

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Hazard pictograms :			
Signa	l word	: Danger	•
Hazar	Hazard statements :		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. Harmful to aquatic life with long lasting effects.
Preca	utionary statements	: Prevent	on:
		P201 P273 P280	Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Respon	se:
		P304 + F	2340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.
		P305 + F P308 + F	 P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

2-Pyrrolidone

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

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
L-Menthol	2216-51-5 218-690-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 	>= 10 - < 20
2-Pyrrolidone	616-45-5 210-483-1	Eye Irrit. 2; H319 Repr. 1B; H360FD 	>= 10 - < 20
1-deoxy-1-(methylamino)-D- glucitol 2-[2-methyl-3- (perfluoromethyl)anilino]nicotinate	42461-84-7 255-836-0	Acute Tox. 3; H301 Acute Tox. 2; H330 Eye Dam. 1; H318 STOT SE 3; H335 STOT RE 1; H372 (Gastrointestinal tract, Kidney, Blood) Aquatic Chronic 2; H411	>= 3 - < 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.



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			U	give artificial respiration. ricult, give oxygen. ntion.
In ca	se of skin contact	:	of water. Remove contami Get medical atter Wash clothing be	
In ca	se of eye contact	:	for at least 15 mi If easy to do, rem	t, immediately flush eyes with plenty of water nutes. nove contact lens, if worn. ntion immediately.
lf swa	allowed	:	Get medical atter Rinse mouth thor	NOT induce vomiting. ntion. roughly with water. ing by mouth to an unconscious person.
4.2 Most i	important symptoms a	nd e	effects, both acut	e and delayed
Risks		:	Harmful if swallor Causes serious e Toxic if inhaled.	wed. eye damage.
				ility. May damage the unborn child. ge to organs through prolonged or repeated
4.3 Indica	tion of any immediate	med	dical attention an	d special treatment needed
	ment	:		ically and supportively.
SECTION	N 5: Firefighting meas	sur	es	
5 1 Extind	guishing media			
	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
5.2 Specia	al hazards arising from	the	e substance or m	xture
-	ific hazards during fire-	:		bustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Fluorine compou	nds



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			Nitrogen oxides (NOx)
Speci for fire	e for firefighters al protective equipment efighters fic extinguishing meth-	:	Use personal pro Use extinguishing cumstances and Use water spray	e, wear self-contained breathing apparatus. tective equipment. g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. uged 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. Local authorities should be advised if significant spillages cannot be contained.
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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis-
		posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		cal measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
	Local/1	Total ventilation	If sufficient ventila ventilation.	ation is unavailable, use with local exhaust			
Advice on safe handling		Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. 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- 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		flushing systems place. When usin nated clothing be The effective ope engineering contr appropriate dego	ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the				
7.2	Conditi	ons for safe storage,	uding any incom	patibilities			
	•	ements for storage and containers	tightly closed. Ke	labelled containers. Store locked up. Keep ep in a cool, well-ventilated place. Store in the particular national regulations.			
	Advice	on common storage	Strong oxidizing	stances and mixtures			
7.3	Specific	c end use(s)					
	Spacifi		No data available				

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1-deoxy-1- (methylamino)-D- glucitol 2-[2-	42461-84-7	TWA	40 μg/m3 (OEB 3)	Internal



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	yl-3- uorome- anilino]nicotina					
		Further inform	ation: Skin			
			Wipe limit	400 µg/10)0 cm ²	Internal

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
2-Pyrrolidone	Workers	Inhalation	Long-term systemic effects	57.8 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	277 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	17.1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	167 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	5.2 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	33.3 mg/kg bw/day
L-Menthol	Workers	Inhalation	Long-term systemic effects	132 mg/m3
	Workers	Skin contact	Long-term systemic effects	19 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1.7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	9.4 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	9.4 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Decanoic acid, mixed diesters with octanoic acid and propylene glycol	Soil	0.2638 mg/kg
2-Pyrrolidone	Fresh water	0.5 mg/l
	Freshwater - intermittent	0.5 mg/l
	Marine water	0.05 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.4205 mg/kg dry

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



28.9 µg/l

48.4 µg/l

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						weight (d.w.)	
				Soil		0.0612 mg/kg dry weight (d.w.)	
	L-Ment	hol		Fresh water		15.6 μg/l	
				Marine water		1.56 µg/l	
				Intermittent us	se/release	156 µg/l	
			Sewage treat	ment plant	2.37 mg/l		
			Fresh water s	ediment	289 µg/l		

Marine sediment

Soil

8.2 Exposure controls

Engineering measures

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

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection :		Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.	
Hand protection			
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, dis- posable 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- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 14387	
Filter type	:	Combined particulates and organic vapour type (A-P)	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
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Colour

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Odour		:	amine-like	
	Odour 7	Threshold	:	No data available	
	Melting	point/freezing point	:	No data available	
	Initial bo range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	
	Auto-igi	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	pН		:	No data available	,
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
	Relative	e density	:	No data available	•
	Density	,	:	No data available	
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	

9.2 Other information



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Explo	sives	:	Not explosive	
Oxidizing properties		:	The substance of	or mixture is not classified as oxidizing.
Evap	oration rate	:	No data availabl	e
Moleo	cular weight	:	No data availabl	e

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid	:	None known.
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10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

	ormation on likely routes of osure	:	Inhalation Skin contact Ingestion Eye contact
Acı	ute toxicity		
	mful if swallowed.		
IOX	tic if inhaled.		
Pro	duct:		
Αсι	ite oral toxicity	:	Acute toxicity estimate: 638.55 mg/kg Method: Calculation method
Αсι	ite inhalation toxicity	:	Acute toxicity estimate: 0.6145 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method



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Comp	oonents:			
L-Mer	nthol:			
Acute	inhalation toxicity	:	LC50 (Rat): 5.28 Exposure time: 4 Test atmosphere Method: OECD	h
Acute	dermal toxicity	:	LD50 (Rabbit): > Method: OECD	5,000 mg/kg Test Guideline 402
2-Pyr	rolidone:			
Acute	oral toxicity	:		000 mg/kg Fest Guideline 401 e substance or mixture has no acute oral to
Acute	dermal toxicity	:		2,000 mg/kg Fest Guideline 402 e substance or mixture has no acute derma
	,	glu		3-(perfluoromethyl)anilino]nicotinate:
Acute	oral toxicity	•	LD50 (Rat): 53 -	
			LD50 (Mouse): 1	76 - 249 mg/kg
			LD50 (Guinea pi	g): 488.3 mg/kg
			LD50 (Monkey):	300 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): < 0.9 Exposure time: 4 Test atmosphere	h
	toxicity (other routes of istration)	:	LD50 (Rat): 59.4 Application Rout	- 185.3 mg/kg e: Intraperitoneal
			LD50 (Mouse): 1 Application Rout	64 - 363 mg/kg e: Intraperitoneal
	corrosion/irritation			
Notel	assified based on availa	hla	information	

L-Menthol:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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2-Pyr	rolidone:		
Speci		: Rabbit	
Metho	bd	: OECD Test Gu	ideline 404
Resul	lt	: No skin irritatio	n
1-deo	oxy-1-(methylamino)	-D-glucitol 2-[2-methy	/I-3-(perfluoromethyl)anilino]nicotinate:
Speci		: Rabbit	
Resul	lt	: Mild skin irritati	on
Serio	us eye damage/eye	irritation	
Cause	es serious eye damag	je.	
<u>Comp</u>	ponents:		
	nthol:	_	
Speci Mothe		: Rabbit : OECD Test Gu	ideline 405
Metho Resul			ideline 405 s, reversing within 7 days
1000		. Initiation to eye	s, recording watting a days
-	rolidone:		
Speci	es	: Rabbit	
Resul	lt		s, reversing within 7 days /I-3-(perfluoromethyl)anilino]nicotinate:
Resul	lt oxy-1-(methylamino) es	-D-glucitol 2-[2-methy Rabbit	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-dec Speci Resul	lt oxy-1-(methylamino) es It	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-dec Speci Resul Resp	t oxy-1-(methylamino) es It iratory or skin sensi	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-dec Speci Resul Resp Skin	lt es lt iratory or skin sensi sensitisation	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-deo Speci Resul Resp Skin s Not cl	It oxy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on ava	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-deo Speci Resul Resp Skin s Not cl Resp	lt es lt iratory or skin sensi sensitisation	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information.	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-deo Speci Resul Resp Skin = Not cl Not cl	It exy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information.	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-deo Speci Resul Resp Skin = Not cl Resp Not cl Comp	It exy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information.	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-deo Speci Resul Resp Skin s Not cl Resp Not cl Comp L-Mei Test	It exy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on avail iratory sensitisation lassified based on avail conents: nthol: Type	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information. ailable information.	yl-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-dec Speci Resul Resul Skin s Not cl Resp Not cl Comp L-Mei Test T Expos	It es iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava conents: nthol: Type sure routes	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information. ailable information. : Local lymph no : Skin contact	/I-3-(perfluoromethyl)anilino]nicotinate:
Resul 1-deo Speci Resul Resul Skin s Not cl Resp Not cl Comp L-Men Test T Expos Speci	It exy-1-(methylamino) es it iratory or skin sensi sensitisation lassified based on avain iratory sensitisation lassified based on avain conents: nthol: Type sure routes es	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information. ailable information. : Local lymph no : Skin contact : Mouse	/I-3-(perfluoromethyl)anilino]nicotinate: ects on the eye
Resul 1-dec Speci Resul Resul Skin s Not cl Resp Not cl Comp L-Mei Test T Expos	It exy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava conents: nthol: Type sure routes es od	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information. ailable information. : Local lymph no : Skin contact	/I-3-(perfluoromethyl)anilino]nicotinate: ects on the eye
Resul 1-deo Speci Resul Resul Skin s Not cl Resul Comp L-Mei Test T Expos Speci Metho Resul	It es iratory or skin sensi sensitisation lassified based on avain iratory sensitisation lassified based on avain conents: nthol: Type sure routes es od It	-D-glucitol 2-[2-methy : Rabbit : Irreversible effect itisation ailable information. ailable information. : Local lymph no : Skin contact : Mouse : OECD Test Gu	/I-3-(perfluoromethyl)anilino]nicotinate: ects on the eye
Resul 1-deo Speci Resul Resp Skin s Not cl Resp Not cl Comp L-Mei Test Expos Speci Metho Resul	It es iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava iratory sensitisation lassified based on ava conents: nthol: Type sure routes es od It rolidone:	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe itisation ailable information. ailable information. : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative	/I-3-(perfluoromethyl)anilino]nicotinate: ects on the eye ode assay (LLNA) ideline 429
Resul 1-deo Speci Resul Resp Skin s Not cl Resp Not cl Comp L-Mei Test T Expos Speci Metho Resul 2-Pyr Test T	It oxy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava conents: nthol: Type sure routes es od It rolidone: Type	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information. ailable information. : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative : Local lymph no	/I-3-(perfluoromethyl)anilino]nicotinate: ects on the eye
Resul 1-deo Speci Resul Resp Skin s Not cl Resp Not cl Comp L-Mei Test T Expos Speci Metho Resul 2-Pyr Test T Expos	It pxy-1-(methylamino) es It iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents: nthol: Type sure routes es pd It rolidone: Type sure routes	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe itisation ailable information. ailable information. : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative	/I-3-(perfluoromethyl)anilino]nicotinate: ects on the eye ode assay (LLNA) ideline 429
Resul 1-deo Speci Resul Resp Skin s Not cl Resp Not cl Comp L-Mei Test T Expos Speci Metho Resul 2-Pyr Test T	It es iratory or skin sensi sensitisation lassified based on avain iratory sensitisation lassified based on avain iratory sensitisation iratory s	-D-glucitol 2-[2-methy : Rabbit : Irreversible effe tisation ailable information. ailable information. : Local lymph no : Skin contact : Mouse : OECD Test Gu : negative : Local lymph no : Skin contact	yl-3-(perfluoromethyl)anilino]nicotinate: ects on the eye ode assay (LLNA) nideline 429



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Rema	arks	: Based on d	ata from similar materials
1-dec	oxy-1-(methylamino)	-D-glucitol 2-[2-me	ethyl-3-(perfluoromethyl)anilino]nicotinate:
Test	Tvpe	: Maximisatio	on Test
	sure routes	: Dermal	
Speci	es	: Guinea pig	
	ssment		ause skin sensitisation.
Resul	lt	: negative	
	cell mutagenicity		
Not cl	lassified based on av	ailable information.	
<u>Comp</u>	oonents:		
-	nthol:		
Geno	toxicity in vitro		Chromosome aberration test in vitro
		Result: neg Remarks: E	ative based on data from similar materials
Geno	toxicity in vivo	cytogenetic	
			Route: Intraperitoneal injection
			CD Test Guideline 474
		Result: neg	
		Remarks: E	ased on data from similar materials
2-Pyr	rolidone:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			In vitro mammalian cell gene mutation test CD Test Guideline 476
		Result: neg	
		Remarks: E	ased on data from similar materials
			Chromosome aberration test in vitro
		Method: OE Result: neg	CD Test Guideline 473 ative
Geno	toxicity in vivo		Mammalian erythrocyte micronucleus test (in vivo
		cytogenetic Species: M	
			Route: Intraperitoneal injection
			CD Test Guideline 474
		-	
			ethyl-3-(perfluoromethyl)anilino]nicotinate:
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES)
		Result. neg	auve

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ersion 13	Revision Date: 28.09.2024	SDS Number: 493850-00026	Date of last issue: 06.04.2024 Date of first issue: 28.01.2016
		Test Type: in v	itro assav
			nouse lymphoma cells
			omosomal aberration hinese hamster ovary cells
		Test Type: in v Test system: E Result: positive	scherichia coli
Geno	toxicity in vivo	: Test Type: Mic	
		Species: Mous Application Ro Result: negativ	ute: Oral
Germ sessr	cell mutagenicity- As- nent	: Weight of evide cell mutagen.	ence does not support classification as a gerr
Carci	nogenicity		
	lassified based on availa	able information.	
<u>Com</u>	oonents:		
L-Me	nthol:		
Speci		: Mouse	
	cation Route	: Ingestion	
•	sure time	: 103 weeks	idalina 452
Metho Resu		: OECD Test Gu : negative	
Rema		5	from similar materials
2-Pyr	rolidone:		
Speci	es	: Mouse	
Applio	cation Route	: Ingestion	
	sure time	: 18 month(s)	
Resu		: negative	
Rema	arks	: Based on data	from similar materials
1-dec	oxy-1-(methylamino)-D	-glucitol 2-[2-methy	/l-3-(perfluoromethyl)anilino]nicotinate:
Speci		: Rat	
	cation Route	: oral (feed)	
	sure time	: 104 w	
LOAE		: 2 mg/kg body v	veight
Resu		: negative	L torong the
	et Organs	: Gastrointestina	
Rema	aiks	. Significant toxic	city observed in testing
0			
Speci	es	: Mouse	

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Expos NOAE Resul	t t Organs		oral (feed) 97 w 0.6 mg/kg body w negative Gastrointestinal to Significant toxicity	-
-	oductive toxicity lamage fertility. May da	mag	e the unborn child.	
<u>Comp</u>	oonents:			
L-Mer Effect ment	nthol: s on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development :: Ingestion
2-Pyr	rolidone:			
-	s on fertility	:	Species: Rat Application Route Result: positive	eneration reproduction toxicity study : Ingestion on data from similar materials
Effect: ment	s on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: positive	vo-foetal development : Ingestion
Repro sessm	ductive toxicity - As- nent	:	ity, based on anir	adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments.
1-deo	xy-1-(methylamino)-D)-alu	citol 2-[2-methyl-	3-(perfluoromethyl)anilino]nicotinate:
	s on fertility	:	Test Type: Two-g Species: Rat Application Route General Toxicity Symptoms: No fo	eneration reproduction toxicity study : Oral · Parent: LOAEL: 1 - 1.5 mg/kg body weight etal abnormalities s on fertility and early embryonic develop-
Effect: ment	s on foetal develop-	:	Embryo-foetal tox Result: Embryoto	

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		Species: Rabbit Application Rou General Toxicity Embryo-foetal to Result: Embryot	
	Γ - single exposure lassified based on ava	ailable information.	
Com	ponents:		
	oxy-1-(methylamino) ssment	-D-glucitol 2-[2-methyl : May cause resp	I-3-(perfluoromethyl)anilino]nicotinate: iratory irritation.
	F - repeated exposur cause damage to orga	e ans through prolonged c	or repeated exposure.
Com	ponents:		
1-dec	oxy-1-(methylamino)	-D-glucitol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
	et Organs ssment		tract, Kidney, Blood to organs through prolonged or repeated
	ated dose toxicity		
	ponents:		
	nthol:	Mauaa	
Spec NOAI		: Mouse : 1,250 mg/kg	
-	cation Route	: Ingestion	
Expo	sure time	: 91 Days	
Meth		: OECD Test Gui	
Rema	arks	: Based on data f	rom similar materials
2-Pvr	rolidone:		
Spec		: Rat	
NOA		: 207 mg/kg	
	cation Route	: Ingestion	
	sure time	: 3 Months	
Meth	od	: OECD Test Gui	deline 408
1-dec	oxy-1-(methylamino)	-D-glucitol 2-[2-methy	-3-(perfluoromethyl)anilino]nicotinate:
Spec	,	: Rat	
NOAI	EL	: 2 mg/kg	
LOAE		: < 4 mg/kg	
	cation Route	: Oral	
Expo	sure time	: 6 w	

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Targe	et Organs	:	Gastrointestinal tr	act
Expo			Rat 1 mg/kg Oral 1 y Gastrointestinal tr	act, Kidney
Expo		:	15 mg/kg Oral	act, Blood
	EL cation Route sure time	:	Rabbit 80 mg/kg Dermal 21 d Severe irritation	
Expo	EL cation Route sure time et Organs	:	Dog 11 mg/kg Oral 9 d Gastrointestinal tr Vomiting	act

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

12.1 Toxicity

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		EC50 (Daphnia magna (Water flea)): 26.6 mg/l
aquatic invertebrates	•	Exposure time: 48 h
		Method: Directive 67/548/EEC, Annex V, C.2.
Toxicity to algae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): 21.4 mg/l
plants		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
plano		
		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-	glu	citol 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 (Oncorhync Exposure time: 96 Method: FDA 4.1	
		y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08	nagna (Water flea)): 15 mg/l 8 h 8
	Toxicit <u>y</u> plants	y to algae/aquatic	:	: NOEC (Microcystis aeruginosa (blue-green algae)): 9 Exposure time: 13 d Method: FDA 4.01	
				NOEC (Selenastr Exposure time: 12	um capricornutum (green algae)): 96 mg/l 2 d
12.2	Persis	tence and degradabil	lity		
	Compo	onents:			
	L-Men	thol:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: (Exposure time: 28 Method: OECD T	64 %
	2-Pvrr	olidone:			
	-	radability	:	Result: Readily bi Remarks: Based	iodegradable. on data from similar materials
	1-deox	xy-1-(methylamino)-D⋅	-glu	citol 2-[2-methyl-3	3-(perfluoromethyl)anilino]nicotinate:
	Stabilit	y in water	:	Hydrolysis: 0 %(2	28 d)
12.3	Bioaco	cumulative potential			
	Compo	onents:			
	L-Men	thol:			
	Bioacc	umulation	:	Method: OECD T	
	Partitio octano	n coefficient: n- I/water	:	log Pow: 3.15	
	2-Pyrre	olidone:			
	Partitio octano	n coefficient: n- l/water	:	log Pow: -0.71 Method: OECD T	est Guideline 107

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



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	ion coefficient: n- ol/water	:	log Pow: 1.34		
12.4 Mob	lity in soil				
<u>Com</u>	ponents:				
1-deo	oxy-1-(methylamino)-D	-glu	icitol 2-[2-methyl-	3-(perfluoromethyl)anilino]nicotinate:	
	bution among environ- al compartments	:	log Koc: 1.92		
12.5 Resu	Ilts of PBT and vPvB a	sse	ssment		
Prod	uct:				
Asse	ssment	:	: This substance/mixture contains no components cons to be either persistent, bioaccumulative and toxic (PB very persistent and very bioaccumulative (vPvB) at lev 0.1% or higher.		
12.6 Endo	ocrine disrupting prop	ertie	es		
Prod	uct:				
Asse	ssment	:	 The substance/mixture does not contain components correct to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/60 levels of 0.1% or higher. 		
	r adverse effects ata available				
SECTION	SECTION 13: Disposal considerations				
	te treatment methods				
Produ		:	According to the are not product s Waste codes sho discussion with th Do not dispose o	cordance with local regulations. European Waste Catalogue, Waste Codes pecific, but application specific. build be assigned by the user, preferably in ne waste disposal authorities. f waste into sewer.	
Cont	aminated nackaging	•	Empty containers	should be taken to an approved waste han-	

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good

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IMDO	3	: Not regulated as a dangerous good	
IATA		: Not regulated as a dangerous good	
14.2 UN p	roper shipping name		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDO	2	: Not regulated as a dangerous good	
IATA		: Not regulated as a dangerous good	
	sport hazard class(es)	. Not regulated as a dangerous good	
		N	
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDO		: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.4 Pack	ting group		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDO	3	: Not regulated as a dangerous good	
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good	
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good	
	ronmental hazards egulated as a dangerou	s good	
-	ial precautions for us pplicable	r	
14.7 Marit	time transport in bulk	according to IMO instruments	
Rema	arks	: Not applicable for product as supplied.	

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

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				here according to in the regulation, use/purpose or t restriction. Pleas tions in correspondetermine wheth	mixture(s) are listed o their appearance , irrespective of their he conditions of the se refer to the condi- onding Regulation to her an entry is appli- ing on the market or
	ACH - Candidate List of ncern for Authorisation (A	Substances of Very High Article 59).	:	Not applicable	
	gulation (EC) on substar	nces that deplete the ozo	ne :	Not applicable	
Re		on persistent organic po	llu- :	Not applicable	
Reg me	gulation (EU) No 649/20	12 of the European Parlia erning the export and imp		Not applicable	
RE	0	s subject to authorisation	:	Not applicable	
Sev	/eso III: Directive 2012/1	8/EU of the European Pa		t and of the Counc	cil on the control of
		5 5		Quantity 1	Quantity 2

		Quantity 1	Quantity 2
H2	ACUTE TOXIC	50 t	200 t

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

H301	: Toxic if swallowed.
H315	: Causes skin irritation.

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H318 H319 H330 H335 H360F H372	D		Causes damage t exposure.	ye irritation. atory irritation. lity. May damage the unborn child. o organs through prolonged or repeated
H411			·	fe with long lasting effects.
Full te	xt of other abbreviat	ons		
Acute		:	Acute toxicity	
Aquatic Chronic Eye Dam.		:	Long-term (chroni Serious eye dama	, i
Eye Irr Repr. Skin Iri STOT STOT	it. rit. RE	 Eye irritation Reproductive toxicity Skin irritation Specific target organ toxicity - repeated exposu Specific target organ toxicity - single exposure 		city gan toxicity - repeated exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response: GHS - Globally Harmonized System: GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information



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	ces of key data used to bile the Safety Data bt		l data, data from raw material SDSs, OECD arch results and European Chemicals Agen- iropa.eu/
Clas	sification of the mixtur	e:	Classification procedure:
Acute	e Tox. 4	H302	Calculation method
Acute	e Tox. 3	H331	Calculation method
Eye I	Dam. 1	H318	Calculation method
Repr	. 1B	H360FD	Calculation method
STO	T RE 2	H373	Calculation method
Aqua	itic Chronic 3	H412	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.

IE / EN