

Versio 5.0	on	Revision Date: 06.07.2024		S Number: 144-00021	Date of last issue: 06.04.2024 Date of first issue: 28.10.2016	
	FION 1 : Product	IDENTIFICATION name	:	Flunixin Liquid (w	vith Alcohol) Formulation	
N	Manufa	cturer or supplier's o	detai	ls		
	Company		:	Intervet Australia Pty Limited (trading as MSD Animal Health)		
ļ	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia		
٢	Telephone		:	1 800 033 461		
E	Emergency telephone number		r :	Poisons Information Centre: Phone 13 11 26		
E	E-mail address :		:	EHSDATASTEWARD@msd.com		
F	Recommended use of the chem		ical and restriction	ons on use		
			Veterinary product Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	:	Category 3
Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 2
Serious eye damage/eye irri- tation	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Gastrointestinal tract, Kidney, Blood)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H318 Causes serious eye damage.



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		H372 Causes	inhaled. damage fertility. May damage the unborn child. damage to organs (Gastrointestinal tract, Kidney h prolonged or repeated exposure.		
Precautionary statements		P202 Do not I and understoo P210 Keep av and other igni P233 Keep co P241 Use exp ment. P242 Use nor P243 Take ac P260 Do not I P264 Wash s P270 Do not o P271 Use onl P280 Wear pot	 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been rea and understood. P210 Keep away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. P233 Keep container tightly closed. P241 Use explosion-proof electrical/ ventilating/ lighting equip 		
		CENTER/ doo P303 + P361 Iy all contamir P304 + P340 and keep com POISON CEN P305 + P351 water for seve and easy to d CENTER/ doo	+ P338 + P310 IF IN EYES: Rinse cautiously wit eral minutes. Remove contact lenses, if present o. Continue rinsing. Immediately call a POISON		
		Storage:	Store in a well-ventilated place. Keep cool. cked up.		
		Disposal: P501 Dispose disposal plant	e of contents/ container to an approved waste		

Vapours may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance / Mixture : Mixture

Components		
Chemical name	CAS-No.	Concentration (% w/w)
2-Pyrrolidone	616-45-5	>= 30 -< 60
Benzyl alcohol	100-51-6	>= 10 -< 30
1-deoxy-1-(methylamino)-D-glucitol 2-[2- methyl-3-(perfluoromethyl)anilino]nicotinate	42461-84-7	>= 10 -< 20
L-Menthol	2216-51-5	>= 10 -< 25
Propan-2-ol	67-63-0	< 10

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately.
		When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air.
		If not breathing, give artificial respiration.
		If breathing is difficult, give oxygen.
In case of skin contact	:	Get medical attention immediately. In case of contact, immediately flush skin with soap and plenty
	•	of water.
		Remove contaminated clothing and shoes.
		Get medical attention.
		Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	•	In case of contact, immediately flush eyes with plenty of water
	•	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	•	Harmful if swallowed.
and effects, both acute and	•	Causes serious eye damage.
delayed		Fatal if inhaled.
-		May damage fertility. May damage the unborn child.
		Causes damage to organs through prolonged or repeated
Droto stien of first siders		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. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



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Unsui media	table extinguishing	:	High volume wa	ater jet
	fic hazards during fire-	:	fire. Flash back pos Vapours may fo	blid water stream as it may scatter and spread sible over considerable distance. form explosive mixtures with air. mbustion products may be a hazard to health.
Hazar ucts	dous combustion prod-	:	Carbon oxides Fluorine compo Nitrogen oxides	
Speci ods	fic extinguishing meth-	:	cumstances an Use water spra	ing measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. naged containers from fire area if it is safe to c
for fire	al protective equipment efighters nem Code	:	In the event of	fire, wear self-contained breathing apparatus. rotective equipment.
ECTION	6. ACCIDENTAL RELE	ASI	E MEASURES	
tive e	nal precautions, protec- quipment and emer- procedures	:	Only trained per Remove all sour Follow safe har	onnel to safe areas. ersonnel should re-enter the area. urces of ignition. ndling advice (see section 7) and personal pro ent recommendations (see section 8).
Enviro	onmental precautions	:	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ling over a wide area (e.g. by containment or o pose of contaminated wash water. es should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	:	Soak up with in Suppress (know spray jet. For large spills, ment to keep m be pumped, sto Clean up remain bent. Local or national posal of this ma employed in the mine which reg	cols should be used. ert absorbent material. ck down) gases/vapours/mists with a water provide dyking or other appropriate contain- naterial from spreading. If dyked material can be recovered material in appropriate containe ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding



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certain local or national requirements.

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
		Use explosion-proof electrical, ventilating and lighting equip- ment.
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 Non-sparking tools should be used.
		Keep container tightly closed.
		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
		When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
		The effective operation of a facility should include review of
		engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up.
		Keep tightly closed.
		Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.
Materials to avoid	:	Keep away from heat and sources of ignition. Do not store with the following product types:
		Self-reactive substances and mixtures Organic peroxides Oxidizing agents
		Flammable gases Pyrophoric liquids
		Pyrophoric solids Self-heating substances and mixtures Poisonous gases
		Explosives

SECTION 7. HANDLING AND STORAGE



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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 inform	ation: Skin		
		Wipe limit	400 µg/100 cm ²	Internal
Propan-2-ol	67-63-0	STEL	500 ppm 1,230 mg/m3	AU OEL
		TWA	400 ppm 983 mg/m3	AU OEL
		TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentra-	
				time	tion	
Propan-2-ol	67-63-0	Acetone	Urine	End of	40 mg/l	ACGIH
				shift at		BEI
				end of		
				work-		
11				week		

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.
	Use explosion-proof electrical, ventilating and lighting equip- ment.
Personal protective equipment	
Respiratory protection :	If adequate local exhaust ventilation is not available or expo-

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



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Hand	protection						
Ma	aterial	:	Chemical-resistar	nt gloves			
Remarks		:	Consider double gloving. Take note that the product is flam- mable, which may impact the selection of hand protection.				
	protection and body protection	:	Wear safety glass If the work environ mists or aerosols, Wear a faceshield potential for direct aerosols. Work uniform or la	ses with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. d or other full face protection if there is a t contact to the face with dusts, mists, or aboratory coat.			
			Additional body g task being perform posable suits) to a	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, dis- avoid exposed skin surfaces. degowning techniques to remove potentially			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	mint-like
Odour Threshold	:	No data available
рН	:	8.0
Melting point/freezing point	:	< -20 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	43.33 °C
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



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Relativ	ve vapour density	:	No data available	e
Relativ	ve density	:	No data available	e
Densi	ty	:	1.05 g/cm ³	
	ility(ies) ater solubility	:	No data available	e
	on coefficient: n-	:	Not applicable	
	ol/water gnition temperature	:	No data available	e
Decor	nposition temperature	:	No data available	e
Viscos Vis	sity scosity, kinematic	:	No data available	e
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data available	e
Partic Partic	le characteristics le 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. Flammable liquid and vapour. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	::	Heat, flames and sparks. 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.	

Fatal if inhaled.



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<u>Produ</u>	uct:			
Acute	oral toxicity	:	Acute toxicity e Method: Calcul	stimate: 306.94 mg/kg ation method
Acute	inhalation toxicity	:	Acute toxicity e Exposure time: Test atmosphe Method: Calcul	re: dust/mist
Comp	oonents:			
2-Pyr	rolidone:			
	oral toxicity	:		2,000 mg/kg 9 Test Guideline 401 he substance or mixture has no acute oral to
Acute	dermal toxicity	:		 > 2,000 mg/kg Test Guideline 402 he substance or mixture has no acute derma
Benz	yl alcohol:			
Acute	oral toxicity	:	LD50 (Rat): 1,6	320 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmosphe Method: OECD	4 h
 1 doo	yy 1 (mothylomino) D	مان	aital 2 [2 math	/l-3-(perfluoromethyl)anilino]nicotinate:
	oral toxicity	igiu :	LD50 (Rat): 53	
			LD50 (Mouse):	176 - 249 mg/kg
			LD50 (Guinea	pig): 488.3 mg/kg
			LD50 (Monkey)): 300 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): < 0 Exposure time: Test atmosphe	4 h
	toxicity (other routes of histration)	:		.4 - 185.3 mg/kg ute: Intraperitoneal
			LD50 (Mouse):	164 - 363 mg/kg

L-Menthol:

SAFETY DATA SHEET



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Acute	inhalation toxicity		
Acute	e dermal toxicity		bbit): > 5,000 mg/kg DECD Test Guideline 402
Propa	an-2-ol:		
Acute	oral toxicity	: LD50 (Ra	t): > 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Ra Exposure Test atmo	
Acute	e dermal toxicity	: LD50 (Ra	bbit): > 5,000 mg/kg
Skin (corrosion/irritation		
Not cl	assified based on ava	ilable informatior	ı.
<u>Comp</u>	ponents:		
	rolidone:		
Speci Metho Resul	bd	: Rabbit : OECD Te : No skin in	st Guideline 404 ritation
Benz	yl alcohol:		
Speci Metho Resul	bd	: Rabbit : OECD Te : No skin iri	st Guideline 404 ritation
1-deo).).).).).).).).).).).).).)	D-glucitol 2-[2-n	nethyl-3-(perfluoromethyl)anilino]nicotin
Speci	es	: Rabbit	
Resul	lt	: Mild skin i	rritation
L-Mei	nthol:		
Speci		: Rabbit	
Metho			st Guideline 404
Resul	I	: Skin irritat	lon
D	an-2-ol:		
Propa		Dabbit	
Speci Resul	es	: Rabbit : No skin iri	

Causes serious eye damage.



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<u>Com</u>	ponents:		
2-Pvr	rolidone:		
Speci		: Rabbit	
Resu			es, reversing within 7 days
Benz	yl alcohol:		
Speci		: Rabbit	
Resu			es, reversing within 21 days
Metho	bd	: OECD Test Gu	Jideline 405
			yl-3-(perfluoromethyl)anilino]nicotinat
Speci Resu		: Rabbit	ects on the eye
III IN COU			รอเอ ปท แทร ธังธ
	nthol:		
Speci Resu		: Rabbit	e reversing within 7 days
Metho		: OECD Test Gu	es, reversing within 7 days udeline 405
	an-2-ol:	Data	
Speci Resu		: Rabbit	es, reversing within 21 days
-	iratory or skin sens	itisation	
	sensitisation	- ilah la infansa stian	
	lassified based on av		
-	iratory sensitisation		
	lassified based on av	ailable information.	
<u>Com</u>	ponents:		
	rolidone:		
Test			ode assay (LLNA)
Expos	sure routes ies	: Skin contact : Mouse	
Metho		: OECD Test Gu	uideline 429
Resu		: negative	
Rema	arks	: Based on data	from similar materials
Benz	yl alcohol:		
Test		: Maximisation 7	Test
	sure routes	: Skin contact	
Speci Metho		: Guinea pig : OECD Test Gu	uideline 406
Resu		: negative	
	-		
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Test Expos Speci	Type sure routes ies ssment	: Maximisation T : Dermal : Guinea pig	r I-3-(perfluoromethyl)anilino]nicotinate est e skin sensitisation.
Test			de assay (LLNA)
Expos Speci Metho Resu	bc	: Skin contact : Mouse : OECD Test Gu : negative	ideline 429
	an-2-ol:		
Test Expos Speci Metho Resu	sure routes ies od	 Buehler Test Skin contact Guinea pig OECD Test Gu negative 	ideline 406
Chro	nic toxicity		
	cell mutagenicity		
	lassified based on av ponents:	ailable information.	
	rolidone:		
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
		Method: OECD Result: negative	tro mammalian cell gene mutation test Test Guideline 476 e d on data from similar materials
			omosome aberration test in vitro Test Guideline 473 e
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rou	e ite: Intraperitoneal injection Test Guideline 474

Benzyl alcohol: Genotoxicity in vitro

vitro : Test Type: Bacterial reverse mutation assay (AMES)



rsion)	Revision Date: 06.07.2024		lumber: 4-00021	Date of last issue: 06.04.2024 Date of first issue: 28.10.2016
П		Re	sult: negativ	/e
Geno	toxicity in vivo	cyt Sp Ap	ogenetic as ecies: Mous	e ute: Intraperitoneal injection
1-deo	oxy-1-(methylamino)	D-glucito	l 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
	toxicity in vitro	: Te		cterial reverse mutation assay (AMES)
		Те	st Type: in v st system: r sult: positiv	nouse lymphoma cells
		Те		romosomal aberration Chinese hamster ovary cells e
		Те	st Type: in v st system: E sult: positiv	scherichia coli
Geno	toxicity in vivo	Sp Ap	st Type: Mid ecies: Mous plication Ro sult: negativ	ute: Oral
	cell mutagenicity - ssment		eight of evid I mutagen.	ence does not support classification as a gerr
L-Mei	nthol:			
Geno	toxicity in vitro	Re	sult: negativ	romosome aberration test in vitro /e ed on data from similar materials
Geno	toxicity in vivo	cyt Sp Ap Me Re	ogenetic as ecies: Mous plication Rc thod: OECI sult: negativ	se ute: Intraperitoneal injection D Test Guideline 474
Propa	an-2-ol:			
	toxicity in vitro		st Type: Ba sult: negativ	cterial reverse mutation assay (AMES) /e
11		Те	st Type: In v	vitro mammalian cell gene mutation test



sion	Revision Date: 06.07.2024	SDS Number:Date of last issue: 06.04.2024954144-00021Date of first issue: 28.10.2016
		Result: negative
Genotoxicity in vivo		: Test Type: Mammalian erythrocyte micronucleus test (in viv cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative
	i nogenicity lassified based on av	vailable information
	ponents:	
2-Pyr	rolidone:	
	cation Route sure time It	 Mouse Ingestion 18 month(s) negative Based on data from similar materials
Benz	yl alcohol:	
	cation Route sure time od	 Mouse Ingestion 103 weeks OECD Test Guideline 451 negative
1-dec	oxy-1-(methylamino))-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Expos LOAE Resu	cation Route sure time EL It et Organs	 Rat oral (feed) 104 w 2 mg/kg body weight negative Gastrointestinal tract Significant toxicity observed in testing
Expos NOAE Resu	cation Route sure time EL It ot Organs	 Mouse oral (feed) 97 w 0.6 mg/kg body weight negative Gastrointestinal tract Significant toxicity observed in testing
L-Me	nthol:	
	cation Route sure time od	 Mouse Ingestion 103 weeks OECD Test Guideline 453 negative



Remark	ks	:			
Species			Based on data f	from similar materials	
Species	1-2-ol:				
			Rat		
Applica	ation Route	:	inhalation (vapo	our)	
	ure time	:	104 weeks		
Method Result	1	:	OECD Test Gui negative	deline 451	
Reproc	ductive toxicity				
-	amage fertility. May da	amaq	e the unborn chil	d.	
-	onents:				
2-Pyrro	olidone:				
Effects	on fertility	:		-generation reproduction toxicity study	
			Species: Rat		
			Application Rou Result: positive		
				d on data from similar materials	
	on foetal develop-	:		pryo-foetal development	
ment			Species: Rat Application Rou	ite: Indestion	
			Result: positive	ite. Ingestion	
Reproductive toxicity - As- sessment		:	Clear evidence of adverse effects on sexual function and ity, based on animal experiments., Clear evidence of adve effects on development, based on animal experiments.		
Benzyl	alcohol:				
Effects	on fertility	:	Test Type: Fert	ility/early embryonic development	
			Species: Rat		
			Application Rou		
			Result: negative Remarks: Base	e d on data from similar materials	
	on foetal develop-	:		pryo-foetal development	
ment			Species: Mouse Application Rou		
			Result: negative		
II 1-deox	v-1-(methylamino)-[D-alu	citol 2-[2-methv	I-3-(perfluoromethyl)anilino]nicotinate:	
	on fertility	:	Test Type: Two	-generation reproduction toxicity study	
11			Species: Rat		
			Application Rou	ite: Oral y - Parent: LOAEL: 1 - 1.5 mg/kg body weigł	
				foetal abnormalities	
				cts on fertility and early embryonic develop-	
II			ment were dete	cted.	
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Effect ment	s on foetal develop-	S A O E R	mbryo-foetal t esult: Embryo	
		S A C E R	pecies: Rabbi pplication Rou General Toxicit mbryo-foetal t cesult: Embryo	
L-Mer	nthol:			
	s on foetal develop-	S	est Type: Emb pecies: Rat pplication Rou esult: negative	
Bronz	2-ol:			
	an-2-ol: s on fertility	S A	est Type: Two pecies: Rat pplication Rou esult: negative	
Effect ment	s on foetal develop-	S	est Type: Emb pecies: Rat pplication Rou esult: negative	
	- single exposure assified based on avai	lable inf	ormation.	
<u>Comp</u>	oonents:			
1-deo	xy-1-(methylamino)-l	D-glucit	ol 2-[2-methy	I-3-(perfluoromethyl)anilino]nicotinate:
Asses		-		piratory irritation.
Propa Asses	an-2-ol: ssment	: N	lay cause drov	vsiness or dizziness.

STOT - repeated exposure

Causes damage to organs (Gastrointestinal tract, Kidney, Blood) through prolonged or repeated exposure.



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Com			
	<u>oonents:</u>)yy-1-(methylamino)	-D-alucital 2-[2-methy	yl-3-(perfluoromethyl)anilino]nicotinate
Targe	et Organs	: Gastrointestina	al tract, Kidney, Blood
Asses	ssment	: Causes damaç exposure.	ge to organs through prolonged or repeate
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
2-Pyr	rolidone:		
Speci		: Rat	
NOAE		: 207 mg/kg	
Applic	cation Route sure time	: Ingestion : 3 Months	
Metho		: OECD Test Gu	iideline 408
Benz	yl alcohol:		
Speci		: Rat	
NOAE	L Cation Route	: 1.072 mg/l : inhalation (dus	t/mist/fume)
Expos	sure time	: 28 Days	(mistrume)
Metho		: OECD Test Gu	ideline 412
1-dec	oxy-1-(methylamino)	-D-glucitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
Speci		: Rat	
NOAE LOAE		: 2 mg/kg	
-	cation Route	: < 4 mg/kg : Oral	
Expos	sure time	: 6 w	
	et Organs	: Gastrointestina	al tract
Speci	es	: Rat	
NOAE		: 1 mg/kg	
Expos	cation Route sure time	: Oral : 1 y	
Targe	et Organs	: Gastrointestina	al tract, Kidney
Speci NOAE		: Monkey : 15 mg/kg	
	cation Route	: Oral	
Expos	sure time	: 90 d	
Targe	et Organs	: Gastrointestina	al tract, Blood
Speci		: Rabbit	
LOAE		: 80 mg/kg	
Applic	cation Route sure time	: Dermal : 21 d	

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Speci		:	Dog	
LOAE		:	11 mg/kg	
	cation Route	:	Oral	
	sure time	:	9 d	
Targe Symp	et Organs htoms	:	Gastrointestina Vomiting	al tract
		•	vorming	
	nthol:			
Speci		:	Mouse	
NOAE		:	1,250 mg/kg	
	cation Route	:	Ingestion	
⊏xpos Metho	sure time	:	91 Days OECD Test G	uideline 408
Rema		:		from similar materials
Reine		·	Daseu un uala	
	an-2-ol:			
Speci		:	Rat	
NOAE		:	12.5 mg/l	
	cation Route	:	inhalation (vap	oour)
Applic Expos	sure time	:	104 Weeks	
Expos Aspir	sure time ration toxicity lassified based on availa	: able		
Expos Aspir Not cl	sure time		information.	
Aspir Not cl	sure time ration toxicity lassified based on availa		information.	
Aspir Not cl Expe Comp 1-dec	sure time ration toxicity lassified based on availa rience with human exp ponents: pxy-1-(methylamino)-D	oosi	information. ure acitol 2-[2-meth	yl-3-(perfluoromethyl)anilino]nicotinate:
Aspir Not cl Expe Comp 1-dec	sure time ration toxicity lassified based on availa rience with human exp <u>ponents:</u> pxy-1-(methylamino)-D ation	oosi	information. ure icitol 2-[2-meth Symptoms: res	spiratory tract irritation
Aspir Not cl Expe Comp 1-dec Skin c	sure time ration toxicity lassified based on availa rience with human exp <u>ponents:</u> pxy-1-(methylamino)-D ation contact	oosi	information. ure icitol 2-[2-meth Symptoms: res Symptoms: Sk	spiratory tract irritation in irritation
Aspir Not cl Expe Comp 1-dec Skin c Eye c	sure time ration toxicity lassified based on availa rience with human exp <u>ponents:</u> pxy-1-(methylamino)-D ation contact contact	oosi	information. ure citol 2-[2-meth Symptoms: res Symptoms: Sk Symptoms: Se	spiratory tract irritation in irritation evere irritation
Aspir Not cl Expe Comp 1-dec Skin c	sure time ration toxicity lassified based on availa rience with human exp <u>ponents:</u> pxy-1-(methylamino)-D ation contact contact	oosi	information. ure citol 2-[2-meth Symptoms: res Symptoms: Sk Symptoms: Se Symptoms: Ga	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten
Aspir Not cl Expe Comp 1-dec Inhala Skin c Eye c Inges	sure time ration toxicity lassified based on availa rience with human exp <u>ponents:</u> pxy-1-(methylamino)-D ation contact contact	-glu : :	information. ure scitol 2-[2-meth Symptoms: res Symptoms: Sk Symptoms: Se Symptoms: Ga sion, Kidney d	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten
Aspir Not cl Expe Comp 1-dec Skin c Eye c Inges	sure time ration toxicity lassified based on availa rience with human exp ponents: pxy-1-(methylamino)-D ation contact contact tion	-glu : :	information. ure scitol 2-[2-meth Symptoms: res Symptoms: Sk Symptoms: Se Symptoms: Ga sion, Kidney d	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten
Aspir Not cl Expe Com Inhala Skin c Eye c Inges CTION Ecoto	sure time ration toxicity lassified based on availa rience with human exp <u>ponents:</u> pxy-1-(methylamino)-D ation contact contact tion 12. ECOLOGICAL INF	-glu : :	information. ure scitol 2-[2-meth Symptoms: res Symptoms: Sk Symptoms: Se Symptoms: Ga sion, Kidney d	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten
Aspir Not cl Expe Com 1-dec Inhala Skin c Eye c Inges CTION Ecoto Com	sure time ration toxicity lassified based on availa rience with human exp ponents: pay-1-(methylamino)-D ation contact contact tion 12. ECOLOGICAL INF paicity ponents:	-glu : :	information. ure scitol 2-[2-meth Symptoms: res Symptoms: Sk Symptoms: Se Symptoms: Ga sion, Kidney d	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten
Aspir Not cl Exper Comp 1-dec Inhala Skin c Eye c Inges CTION Ecoto 2-Pyr	sure time ration toxicity lassified based on availa rience with human exp ponents: poyy-1-(methylamino)-D ation contact contact tion 12. ECOLOGICAL INF poxicity	-glu : :	information. ure ncitol 2-[2-meth Symptoms: res Symptoms: Se Symptoms: Ga sion, Kidney d MATION LC50 (Danio res	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten isorders erio (zebra fish)): > 4,600 - 10,000 mg/l
Aspir Not cl Exper Comp 1-dec Inhala Skin c Eye c Inges CTION Ecoto 2-Pyr	sure time ration toxicity lassified based on availa rience with human exp ponents: poxy-1-(methylamino)-D ation contact tion 12. ECOLOGICAL INF ponents: ponents: ponents:	-glu : :	information. ure notitol 2-[2-meth Symptoms: res Symptoms: Se Symptoms: Ga sion, Kidney d MATION LC50 (Danio re Exposure time	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten isorders erio (zebra fish)): > 4,600 - 10,000 mg/l
Aspir Not cl Expe Com 1-dec Inhala Skin c Eye c Inges CTION Ecoto 2-Pyr Toxic	sure time ration toxicity lassified based on availa rience with human exp ponents: poyy-1-(methylamino)-D ation contact contact tion 12. ECOLOGICAL INF ponents: rolidone: ity to fish ity to daphnia and other	-glu : : ORM	information. ure acitol 2-[2-meth Symptoms: res Symptoms: Se Symptoms: Ga sion, Kidney d MATION LC50 (Danio re Exposure time Method: OECI EC50 (Daphni	erio (zebra fish)): > 4,600 - 10,000 mg/l : 96 h D Test Guideline 203 a magna (Water flea)): > 500 mg/l
Expose Aspir Not cl Exper Comp Inhala Skin c Eye c Inges CTION Ecoto 2-Pyr Toxici aquat	sure time ration toxicity lassified based on availa rience with human exp ponents: pxy-1-(methylamino)-D ation contact contact tion 12. ECOLOGICAL INF pxicity ponents: rolidone: ity to fish ity to daphnia and other ic invertebrates	-glu : : ORM	information. ure acitol 2-[2-meth Symptoms: res Symptoms: Se Symptoms: Ga sion, Kidney d MATION LC50 (Danio re Exposure time Method: OECI EC50 (Daphni Exposure time	erio (zebra fish)): > 4,600 - 10,000 mg/l : 96 h D Test Guideline 203 a magna (Water flea)): > 500 mg/l : 48 h
Expose Aspir Not cl Exper Comp Inhala Skin c Eye c Inges CTION Ecoto 2-Pyr Toxici aquat	sure time ration toxicity lassified based on availa rience with human exp ponents: poxy-1-(methylamino)-D ation contact tion 12. ECOLOGICAL INF pxicity ponents: rolidone: ity to daphnia and other ic invertebrates ity to algae/aquatic	-glu : : ORM	information. ure acitol 2-[2-meth Symptoms: res Symptoms: Se Symptoms: Ga sion, Kidney d MATION LC50 (Danio re Exposure time Method: OECI EC50 (Daphni Exposure time	spiratory tract irritation in irritation evere irritation astrointestinal disturbance, bleeding, hyperten isorders erio (zebra fish)): > 4,600 - 10,000 mg/l : 96 h D Test Guideline 203 a magna (Water flea)): > 500 mg/l : 48 h odesmus subspicatus (green algae)): > 500 m



rsion)	Revision Date: 06.07.2024	-	9S Number: 4144-00021	Date of last issue: 06.04.2024 Date of first issue: 28.10.2016
			EC10 (Desmodes Exposure time: 7	smus subspicatus (green algae)): 22.2 mg/l 2 h
Toxicit	y to microorganisms	:	EC50: > 1,000 m Exposure time: 3 Method: OECD T	
Benzy	l alcohol:			
	y to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 460 mg/l 6 h
	y to daphnia and other c invertebrates	:	Exposure time: 4	nagna (Water flea)): 230 mg/l 8 h rest Guideline 202
Toxicit plants	y to algae/aquatic	:	mg/l Exposure time: 7	chneriella subcapitata (green algae)): 770 2 h rest Guideline 201
			mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 310 2 h est Guideline 201
	y to daphnia and other c invertebrates (Chron- ity)		Exposure time: 2	magna (Water flea)): 51 mg/l 1 d rest Guideline 211
	xy-1-(methylamino)-D- y to fish	glu :		3-(perfluoromethyl)anilino]nicotinate: nacrochirus (Bluegill sunfish)): 28 mg/l
			Exposure time: 9 Method: FDA 4.1	6 h
			LC50 (Oncorhynd Exposure time: 9 Method: FDA 4.1	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia n Exposure time: 4 Method: FDA 4.0	
Toxicit plants	y to algae/aquatic	:	NOEC (Microcyst Exposure time: 13 Method: FDA 4.0	
11			NOEC (Selenastr	um capricornutum (green algae)): 96 mg/l



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L-Men	thol:			
Toxicit	y to fish	:	Exposure time: 9	o (zebra fish)): 15.6 mg/l 96 h e 67/548/EEC, Annex V, C.1.
	y to daphnia and other c invertebrates	:	Exposure time: 4	magna (Water flea)): 26.6 mg/l l8 h e 67/548/EEC, Annex V, C.2.
Toxicit plants	y to algae/aquatic	:	Exposure time: 7	esmus subspicatus (green algae)): 21.4 mg 72 h e 67/548/EEC, Annex V, C.3.
			Exposure time: 7	esmus subspicatus (green algae)): 9.65 m 72 h e 67/548/EEC, Annex V, C.3.
Toxicit	y to microorganisms	:	•••	96 h iration inhibition of activated sludge Test Guideline 209
Propa	n-2-ol:			
Toxicit	y to fish	:	LC50 (Pimephal Exposure time: S	es promelas (fathead minnow)): 9,640 mg/ 96 h
	y to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time: 2	magna (Water flea)): > 10,000 mg/l 24 h
Toxicit	y to microorganisms	:	EC50 (Pseudom Exposure time: 1	onas putida): > 1,050 mg/l 6 h
Persis	tence and degradabil	ity		
<u>Comp</u>	onents:			
2-Pyrr	olidone:			
Biodeg	gradability	:	Result: Readily to Remarks: Basec	piodegradable. I on data from similar materials
Benzy	l alcohol:			
Biodeg	gradability	:	Result: Readily t Biodegradation: Exposure time: 1	92 - 96 %
1-deox	xy-1-(methylamino)-D⋅	glu	citol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
	ty in water	:	Hydrolysis: 0 %(



ersion 0	Revision Date: 06.07.2024		OS Number: 4144-00021	Date of last issue: 06.04.2024 Date of first issue: 28.10.2016
Biodeç	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD	64 %
Propa	n-2-ol:			
	gradability	:	Result: rapidly d	egradable
BOD/C	COD	:	BOD: 1,19 (BOD COD: 2,23 BOD/COD: 53 %	
Bioaco	cumulative potential			
<u>Comp</u>	onents:			
2-Pvrr	olidone:			
Partitic	on coefficient: n- I/water	:	log Pow: -0.71 Method: OECD	Test Guideline 107
Benzy	l alcohol:			
-	on coefficient: n-	:	log Pow: 1.05	
1-deox	ky-1-(methylamino)-D	-glu	citol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
Partitic octano	on coefficient: n- I/water	:	log Pow: 1.34	
L-Men	thol:			
Bioaco	cumulation	:	Exposure time: 6 Method: OECD	n factor (BCF): 0.5 - 15
	on coefficient: n- l/water	:	log Pow: 3.15	
Propa	n-2-ol:			
Partitic octano	on coefficient: n- l/water	:	log Pow: 0.05	
Mobili	ty in soil			
<u>Comp</u>	onents:			
1-deox	xy-1-(methylamino)-D	-glu	citol 2-[2-methyl	-3-(perfluoromethyl)anilino]nicotinate:
Distrib	ution among environ- l compartments	-		
	adverse effects a available			



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han-
		dling site for recycling or disposal.
		Empty containers retain residue and can be dangerous.
		Do not pressurize, cut, weld, braze, solder, drill, grind, or ex-
		pose such containers to heat, flame, sparks, or other sources
		of ignition. They may explode and cause injury and/or death.
		If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally hazardous	:	UN 1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol) 3 III 3 no
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 1993 Flammable liquid, n.o.s. (Propan-2-ol) 3 III Flammable Liquids 366 355
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	:	UN 1993 FLAMMABLE LIQUID, N.O.S. (Propan-2-ol) 3 III 3 F-E, <u>S-E</u> no

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

Not applicable for product as supplied.

National Regulations



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Class Packii Labels Hazch Enviro	r shipping name ng group	 UN 1993 FLAMMABLE LI (Propan-2-ol) 3 III 3 •3Y no	IQUID, N.O.S.

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (PoisonsNo poison schedule number allocated (Please use the original
publication to check for specific uses, specific conditions or
threshold limits that might apply for this chemical)

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Prohibition/Licensing Requirements

There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date	:	06.07.2024
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/

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

Date format

dd.mm.yyyy

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Full text of other abbreviations

ACGIH ACGIH BEI AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) Australia. Workplace Exposure Standards for Airborne Con- taminants.
ACGIH / TWA ACGIH / STEL AU OEL / TWA	:	8-hour, time-weighted average Short-term exposure limit Exposure standard - time weighted average
AU OEL / STEL		Exposure standard - short term exposure limit

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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