



Version 3.1	Revision Date: 2023/09/30		S Number:)8634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
1. PRODU	CT AND COMPANY ID	ENT	IFICATION	
Produ	ict name	:	Flunixin Injection	Formulation
Manu	facturer or supplier's c	leta	ils	
Comp	pany	:	MSD	
Addre	ess	:		venue ersey U.S.A. 07065
Telep	hone	:	908-740-4000	
Emer	gency telephone number	r:	1-908-423-6000	
E-mai	il address	:	EHSDATASTEW	/ARD@msd.com
Reco	mmended use of the cl	nem	ical and restriction	ons on use
	mmended use ictions on use	:	Veterinary produ Not applicable	ict

2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 3
Serious eye damage/eye irri- tation	:	Category 1
Specific target organ toxicity - repeated exposure	:	Category 2 (Gastrointestinal tract, Kidney, Blood)
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H318 Causes serious eye damage. H331 Toxic if inhaled. H373 May cause damage to organs (Gastrointestinal tract, Kidney, Blood) through prolonged or repeated exposure.





Version 3.1	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
Preca	autionary statements	P264 Wash sk P270 Do not e P271 Use only	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. e protection/ face protection.
		CENTER/ doct P304 + P340 + and keep comf doctor. P305 + P351 + water for sever and easy to do CENTER/ doct	 P330 IF SWALLOWED: Call a POISON for if you feel unwell. Rinse mouth. P311 IF INHALED: Remove person to fresh air fortable for breathing. Call a POISON CENTER/ P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON for. ical advice/ attention if you feel unwell.
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
	r hazards which do n known.	ot result in classifica	tion

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
1-deoxy-1-(methylamino)-D-glucitol 2-[2-	42461-84-7	>= 3 -< 10
methyl-3-(perfluoromethyl)anilino]nicotinate		
Phenol	108-95-2	>= 0.25 -< 1
2,2'-Iminodiethanol	111-42-2	< 1
Sodium hydroxymethanesulphinate	6035-47-8	< 1

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 advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.



Versior 3.1	n Revision Date: 2023/09/30		9S Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21			
In	case of skin contact	:	of water.	, immediately flush skin with soap and plenty			
In case of eye contact		:	Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. 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.				
lf s	swallowed	:	Get medical atten	NOT induce vomiting. tion.			
an	ost important symptoms d effects, both acute and layed	:	Never give anythi Harmful if swallow Causes serious e Toxic if inhaled. May cause damag				
	otection of first-aiders otes to physician	:	 exposure. First Aid responders should pay attention to self-prot and use the recommended personal protective equip when the potential for exposure exists (see section 8) Treat symptomatically and supportively. 				
5. FIRE	FIGHTING MEASURES						
Su	itable extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
	nsuitable extinguishing edia	:	None known.				
Sp	becific hazards during fire- hting	:	Exposure to comb	pustion products may be a hazard to health.			
	azardous combustion prod-	:	Carbon oxides Fluorine compour Nitrogen oxides (I				
Sr od	ecific extinguishing meth- s	:	: Use extinguishing measures that are appropriate to local or cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe t so.				
	ecial protective equipment firefighters	:		e, wear self-contained breathing apparatus. tective equipment.			
6. ACC	IDENTAL RELEASE MEA	SUF	RES				

Personal precautions, protec- :	Use personal protective equipment.
tive equipment and emer-	Follow safe handling advice (see section 7) and personal pro-
gency procedures	tective equipment recommendations (see section 8).





Version 3.1	Revision Date: 2023/09/30		0S Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21	
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 contain barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spil cannot be contained. 		
Methods and materials for containment and cleaning up			Soak up with inert absorbent material. For large spills, provide dyking or other appropriate conta ment to keep material from spreading. If dyked material of be pumped, store recovered material in appropriate conta Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and of posal of this material, as well as those materials and item employed in the cleanup of releases. You will need to det mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regar certain local or national requirements.		
7. HAN	DLING AND STORAGE				
Те	chnical measures	:		measures under EXPOSURE SONAL PROTECTION section.	
Lo	cal/Total ventilation	:		tion is unavailable, use with local exhaust	
Ad	vice on safe handling	 Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and s practice, based on the results of the workplace exposure sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release environment. 			
Co	nditions for safe storage	:	Keep in properly I Store locked up.	abelled containers.	

Keep in a cool, well-ventilated place.Store in accordance with the particular national regulations.Materials to avoid: Do not store with the following product types:

Keep tightly closed.

Materials to avoid : Do not store with the following product types: Explosives



Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
3.1	2023/09/30	1308634-00017	Date of first issue: 2017/02/21

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 informa	ation: Skin				
		Wipe limit	400 µg/100 cm ²	Internal		
Phenol	108-95-2	NAB	5 ppm	ID OEL		
	Further information: Not classified as carcinogenic to humar enough data to classify these materials as carcinogenic to h mans or animals, Skin					
		TWA	5 ppm	ACGIH		
2,2'-Iminodiethanol	111-42-2	NAB (Inhala- ble fraction and vapor)	1 ppm	ID OEL		
	Further information: Confirmed animal carcinogen., Skin					
		TWA (Inhal- able fraction and vapor)	1 mg/m3	ACGIH		

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
Phenol	108-95-2	Phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g creatinine	ACGIH BEI

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.



Version 3.1	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21	
Pers	onal protective equip	ment		
	iratory protection	sure assess ommended	local exhaust ventilation is not available or expo- ment demonstrates exposures outside the rec- guidelines, use respiratory protection.	
	lter type I protection	: Particulates	type	
Μ	aterial	: Chemical-re	sistant gloves	
	emarks protection	: Wear safety If the work e mists or aero Wear a face	uble gloving. glasses with side shields or goggles. nvironment or activity involves dusty conditions, osols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or	
Skin	and body protection	 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, or posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potenti contaminated clothing. 		
Hygie	ene measures	 If exposure to chemical is likely during typical use, pro eye flushing systems and safety showers close to the ing place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include revia engineering controls, proper personal protective equip appropriate degowning and decontamination procedur industrial hygiene monitoring, medical surveillance and use of administrative controls. 		

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	7.8 - 9.0
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available



Flunixin Injection Formulation

Version 3.1	Revision Date: 2023/09/30		S Number:)8634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
Ev	aporation rate	:	No data available	9
Fla	ammability (solid, gas)	:	Not applicable	
Fla	ammability (liquids)	:	No data available	9
	per explosion limit / Upper mmability limit	:	No data available	
	wer explosion limit / Lower mmability limit	:	No data available	
Va	pour pressure	:	No data available)
Re	lative vapour density	:	No data available	9
Re	lative density	:	No data available	9
De	ensity	:	No data available	9
So	lubility(ies) Water solubility	:	No data available	9
	rtition coefficient: n-	:	Not applicable	
	tanol/water to-ignition temperature	:	No data available	9
De	composition temperature	:	No data available)
Vis	scosity Viscosity, kinematic	:	No data available	9
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	The substance o	r mixture is not classified as oxidizing.
Мс	plecular weight	:	No data available)
Pa	rticle size	:	Not applicable	

10. STABILITY AND REACTIVITY

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





/ersion 3.1	Revision Date: 2023/09/30		9S Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
1. TOXIC	OLOGICAL INFORMAT	101	N	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Harm	e toxicity ful if swallowed. if inhaled.			
Prod Acute	<u>uct:</u> e oral toxicity	:	Acute toxicity est Method: Calculat	mate: 604.68 mg/kg on method
Acute	inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	: dust/mist
Acute	e dermal toxicity	:	Acute toxicity est Method: Calculat	mate: > 2,000 mg/kg on method
<u>Com</u>	ponents:			
		-		3-(perfluoromethyl)anilino]nicotinate:
Acute	e oral toxicity	:	LD50 (Rat): 53 -	
			LD50 (Mouse): 1	76 - 249 mg/kg
			LD50 (Guinea pię	ı): 488.3 mg/kg
			LD50 (Monkey):	300 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): < 0.5 Exposure time: 4 Test atmosphere	h
	e toxicity (other routes of nistration)	:	LD50 (Rat): 59.4 Application Route	
			LD50 (Mouse): 1 Application Route	
Phen	ol:			
Acute	e oral toxicity	:	LD50 (Rat): 650 Method: OECD T	ng/kg est Guideline 401
			Acute toxicity est Method: Expert ju	mate (Humans): 140 - 290 mg/kg idgement



rsion	Revision Date: 2023/09/30		S Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
Acute	e inhalation toxicity	:	LC0 (Rat): 0.9 n Exposure time: 3 Test atmosphere Assessment: Co	3 h
			Acute toxicity es Exposure time: Test atmosphere Method: Expert	e: dust/mist
Acute	e dermal toxicity	:	LD50 (Rabbit): 6 Method: OECD	660 mg/kg Test Guideline 402
			Acute toxicity es Method: Expert	timate (Humans): 300 mg/kg judgement
2.2'-lı	minodiethanol:			
•	e oral toxicity	:	LD50 (Rat): 1,60)0 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat, male Exposure time: Test atmosphere	4 h
Sodiı	um hydroxymethane	sulphi	nate:	
Acute	e oral toxicity	:		000 mg/kg Test Guideline 423 d on data from similar materials
Acute	e dermal toxicity	:		000 mg/kg Test Guideline 402 d on data from similar materials
-	corrosion/irritation			
	lassified based on ava	ailable	information.	
	ponents:	Dalu	aital 2 [2 mathul	2 (norfluoromothyllonilinolnicotingto)
Speci		ъ-giu	Rabbit	-3-(perfluoromethyl)anilino]nicotinate:
Resu		:	Mild skin irritatio	n
Phen	ol:			
Speci Resu		:	Rabbit Corrosive after 3	3 minutes to 1 hour of exposure
2,2'-lı	minodiethanol:			
Speci Resu		:	Rabbit Skin irritation	



Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
3.1	2023/09/30	1308634-00017	Date of first issue: 2017/02/21

Sodium hydroxymethanesulphinate:

Species :	F	Rat
Result :	1	No skin irritation
Remarks :	E	Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

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

Species	:	Rabbit
Result	:	Irreversible effects on the eye

Phenol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 405

2,2'-Iminodiethanol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye

Sodium hydroxymethanesulphinate:

Species :	Rabbit
Result :	No eye irritation
Method :	OECD Test Guideline 405
Remarks :	Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

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

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Result	:	negative

Phenol:

Test Type	:	Buehler Test
Exposure routes	:	Skin contact



	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21			
Speci Metho		: Guinea pig	ideline 406			
Resul		: negative	: OECD Test Guideline 406 : negative			
2,2'-lr	ninodiethanol:					
Test T	Гуре	: Maximisation T	est			
Expos	sure routes	: Skin contact				
Speci		: Guinea pig				
Metho Resul		: OECD Test Gu : negative	ideline 406			
Sodiu	ım hydroxymethane	sulphinate:				
Test T		: Maximisation T	est			
	sure routes	: Skin contact				
Speci		: Guinea pig				
Metho		: OECD Test Gu	iideline 406			
Resul		: negative				
Rema	irks		from similar materials			
	cell mutagenicity assified based on av	ailable information.				
Not cl <u>Comp</u> 1-deo	assified based on av ponents: pxy-1-(methylamino)	-D-glucitol 2-[2-methy	/I-3-(perfluoromethyl)anilino]nicotinate: sterial reverse mutation assay (AMES)			
Not cl <u>Comp</u> 1-deo	assified based on ave conents:	-D-glucitol 2-[2-methy	terial reverse mutation assay (AMES)			
Not cl <u>Comp</u> 1-deo	assified based on av ponents: pxy-1-(methylamino)	-D-glucitol 2-[2-methy : Test Type: Bac Result: negativ Test Type: in v	itro assay nouse lymphoma cells			
Not cl <u>Comp</u> 1-deo	assified based on av ponents: pxy-1-(methylamino)	- D-glucitol 2-[2-methy : Test Type: Bac Result: negativ Test Type: in v Test system: m Result: positive Test Type: Chr	eterial reverse mutation assay (AMES) e itro assay nouse lymphoma cells omosomal aberration chinese hamster ovary cells			
Not cl <u>Comp</u> 1-deo	assified based on av ponents: pxy-1-(methylamino)	-D-glucitol 2-[2-methy : Test Type: Bac Result: negativ Test Type: in v Test system: m Result: positive Test Type: Chr Test system: C	e itro assay nouse lymphoma cells omosomal aberration chinese hamster ovary cells itro assay scherichia coli			
Not cl <u>Comp</u> 1-deo Genot	assified based on av ponents: pxy-1-(methylamino)	-D-glucitol 2-[2-methy : Test Type: Bac Result: negativ Test Type: in v Test system: m Result: positive Test Type: Chr Test system: C Result: positive Test Type: in v Test Type: in v Test system: E	eterial reverse mutation assay (AMES) e itro assay nouse lymphoma cells omosomal aberration chinese hamster ovary cells itro assay scherichia coli oronucleus test e ute: Oral			
Not cl <u>Comp</u> 1-deo Genot Genot	assified based on ava <u>conents:</u> xy-1-(methylamino) toxicity in vitro	 -D-glucitol 2-[2-methy Test Type: Bac Result: negativ Test Type: in v Test system: m Result: positive Test Type: Chr Test system: C Result: positive Test Type: in v Test system: E Result: positive Test Type: in v Test system: E Result: positive Test Type: Mic Species: Mous Application Ro Result: negativ 	eterial reverse mutation assay (AMES) e itro assay nouse lymphoma cells omosomal aberration chinese hamster ovary cells itro assay scherichia coli oronucleus test e ute: Oral			
Not cl <u>Comp</u> 1-deo Genot Genot	assified based on ave <u>ponents:</u> pxy-1-(methylamino) toxicity in vitro toxicity in vitro toxicity in vivo	 -D-glucitol 2-[2-methy Test Type: Bac Result: negativ Test Type: in v Test system: m Result: positive Test Type: Chr Test system: C Result: positive Test Type: in v Test system: E Result: positive Test Type: in v Test system: E Result: positive Test Type: Mic Species: Mous Application Ro Result: negativ Weight of evide 	eterial reverse mutation assay (AMES) e itro assay nouse lymphoma cells omosomal aberration chinese hamster ovary cells itro assay scherichia coli e ronucleus test e ute: Oral e			



Version 3.1	Revision Date: 2023/09/30	SDS Number:Date of last issue: 2023/04/041308634-00017Date of first issue: 2017/02/21
		Method: OECD Test Guideline 473 Result: positive
Genc	otoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive Remarks: Annex VI From 1272/2008
	n cell mutagenicity - ssment	: Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.
2.2'-I	minodiethanol:	
-	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: In vitro mammalian cell gene mutation test Result: negative
		Test Type: Chromosome aberration test in vitro Result: negative
		Test Type: In vitro sister chromatid exchange assay in mam- malian cells Result: negative
Genc	Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronuc cytogenetic assay) Species: Mouse Application Route: Skin contact Result: negative	
Sodi	um hydroxymethanes	ulphinate:
	otoxicity in vitro	 Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genc	otoxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 474 Result: positive Remarks: Based on data from similar materials
	n cell mutagenicity - ssment	: Positive result(s) from in vivo mammalian somatic cell muta- genicity tests.



VersionRevision Date:SDS Number:Date of last issue: 2023/04/043.12023/09/301308634-00017Date of first issue: 2017/02/21						
-------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--	--

Carcinogenicity

Not classified based on available information.

Components:

Species :	Rat
Application Route :	oral (feed)
Exposure time :	104 w
LOAEL :	2 mg/kg body weight
Result :	negative
Target Organs :	Gastrointestinal tract
Remarks :	Significant toxicity observed in testing
Species:Application Route:Exposure time:NOAEL:Result:Target Organs:Remarks:	Mouse oral (feed) 97 w 0.6 mg/kg body weight negative Gastrointestinal tract Significant toxicity observed in testing
Phenol:SpeciesApplication RouteExposure timeMethodResult	Mouse Ingestion 103 weeks OECD Test Guideline 451 negative
2,2'-Iminodiethanol:	Mouse
Species :	Skin contact
Application Route :	103 weeks
Exposure time :	positive
Result :	The mechanism or mode of action may not be relevant in hu-
Remarks :	mans.
Species:Application Route:Exposure time:Result:	Rat Skin contact 103 weeks negative
Carcinogenicity - Assess- :	Weight of evidence does not support classification as a car-
ment	cinogen

Reproductive toxicity

Not classified based on available information.

Components:

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



Version 3.1	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
Effe	ects on fertility	Species: Rat Application Re General Toxic Symptoms: N	tity - Parent: LOAEL: 1 - 1.5 mg/kg body weight o foetal abnormalities ects on fertility and early embryonic develop-
Effe	ects on foetal develop- nt	Embryo-foeta Result: Embry	
		Species: Rab Application Re General Toxic Embryo-foeta Result: Embry	
Ph	enol:		
Effe	ects on fertility	Species: Rat Application Re	vo-generation reproduction toxicity study oute: Ingestion D Test Guideline 416 ve
Effe me	ects on foetal develop- nt	Species: Mou Application Re	oute: Ingestion D Test Guideline 414
2,2	'-Iminodiethanol:		
	ects on fertility	Species: Rat Application Re	ne-generation reproduction toxicity study oute: Ingestion D Test Guideline 443 /e
Effe me	ects on foetal develop- nt	Species: Rat Application Re	ne-generation reproduction toxicity study oute: Ingestion D Test Guideline 443 re
Re	productive toxicity - As-	: Some evidend	ce of adverse effects on sexual function and



sion	Revision Date: 2023/09/30		S Number:)8634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21				
sessn	nent		fertility, and/or o	on development, based on animal experiment				
Sadiu	m hydroxymothonoc	ulnhi	nata					
	im hydroxymethanes s on fertility	:	Test Type: Con reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422				
Effects on foetal develop- ment			: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: positive Remarks: Based on data from similar materials					
Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experim	e of adverse effects on development, based o ents.				
Not cl	 single exposure assified based on avai ponents: 	lable i	nformation.					
1-dec	oxy-1-(methylamino)-I	D-gluo	citol 2-[2-methy	rl-3-(perfluoromethyl)anilino]nicotinate:				
	ssment	:		biratory irritation.				
May o peate	• repeated exposure cause damage to orgar d exposure. conents:		strointestinal tra	act, Kidney, Blood) through prolonged or re-				
1-dec	xy-1-(methylamino)-I	D-gluo	citol 2-[2-methy	/I-3-(perfluoromethyl)anilino]nicotinate:				
Target Organs Assessment		:	 Gastrointestinal tract, Kidney, Blood Causes damage to organs through prolonged or reperexposure. 					
Phen	ol:							
Targe	t Organs ssment	:	 Central nervous system, Kidney, Liver, Skin May cause damage to organs through prolonged or repeating exposure. 					
י_י ַ ר מ	ninodiethanol:							

Exposure routes	:	Ingestion
Target Organs	:	Kidney, Blood, Liver, Nervous system
Assessment	:	Shown to produce significant health effects in animals at con-



ersion 1	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
		centrations of >	•10 to 100 mg/kg bw.
Expos	sure routes	: inhalation (dust	t/mist/fume)
	t Organs	: Kidney, Blood	
Asses	ssment		uce significant health effects in animals at cor 0.02 to 0.2 mg/l/6h/d.
Expos	sure routes	: Skin contact	
	t Organs	: Blood, Liver, K	
Asses	ssment		uce significant health effects in animals at con 20 to 200 mg/kg bw.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
			/I-3-(perfluoromethyl)anilino]nicotinate:
Speci NOAE		: Rat	
LOAE		: 2 mg/kg : < 4 mg/kg	
	ation Route	: Oral	
	sure time	: 6 w	
Targe	t Organs	: Gastrointestina	l tract
Speci		: Rat	
NOAE		: 1 mg/kg	
	cation Route sure time	: Oral : 1 y	
	t Organs	: Gastrointestina	l tract, Kidney
Speci		: Monkey	
NOAE		: 15 mg/kg	
	cation Route sure time	: Oral : 90 d	
	t Organs	: Gastrointestina	l tract, Blood
Speci		: Rabbit	
LOAE		: 80 mg/kg	
	cation Route sure time	: Dermal : 21 d	
Symp		: Severe irritation	า
Speci		: Dog	
LOAE		: 11 mg/kg	
	cation Route sure time	: Oral : 9 d	
	t Organs	: Gastrointestina	l tract
Symp		: Vomiting	
Phen	ol:		
1 11011			



Versio 3.1		Revision Date: 2023/09/30		0S Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
L	OAEL		:	300 mg/kg	
		on Route	:	Ingestion	
	xposure lethod	etime	÷	90 Days OECD Test Guide	aline 408
111	letilou		•	OLOD Test Guide	
	pecies		:	Rat	
	IOAEL	on Pouto	÷	>= 0.1 mg/l	-
	xposure	on Route	:	inhalation (vapour 74 Days)
			•	, i Dayo	
	pecies		:	Rabbit	
	OAEL	an Davita	:	260 mg/kg	
	xposure	on Route	÷	Skin contact 18 Days	
	Aposure		•	TO Days	
2,	, 2'-I min	odiethanol:			
	pecies		:	Rat, female	
	OAEL	5	:	14 mg/kg	
		on Route	÷	Ingestion 13 Weeks	
	xposure		•	13 WEEKS	
	pecies		:	Rat	
	IOAEL	an Dauta	÷	0.015 mg/l	ict/fume)
	xposure	on Route	•	inhalation (dust/m 90 Days	istrume)
	lethod		:	OECD Test Guide	eline 413
S	pecies			Rat	
	OAEL		÷	32 mg/kg	
		on Route	÷	Skin contact	
	xposure		:	13 Weeks	
S	odium	hydroxymethanesu	Inh	inate [.]	
	pecies	nyaroxymethanese		Rat	
	IOAEL		÷	600 mg/kg	
A	pplicati	on Route	:	Ingestion	
	xposure	e time	:	90 Days	
	lethod			OECD Test Guide	
R	emarks	i	:	Based on data fro	m similar materials
A	spirati	on toxicity			
	•	ified based on availa	able	information.	
E	xperier	nce with human exp	osi	ıre	
<u>C</u>	ompor	ents:			
1-	-deoxy	-1-(methylamino)-D	-glu	citol 2-[2-methyl-3	B-(perfluoromethyl)anilino]nicotinate:
In	halatio	า	:		atory tract irritation
	kin con		:	Symptoms: Skin i	rritation
E	ye cont	act	:	Symptoms: Sever	e irritation



ersion 1	Revision Date: 2023/09/30		0S Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
Ingesti	on	:	Symptoms: Gas sion, Kidney dis	strointestinal disturbance, bleeding, hyperten- orders
2. ECOLC	GICAL INFORMATION	1		
Ecoto	xicity			
<u>Produ</u> Toxicit	<u>ct:</u> y to fish	:	Exposure time:	les promelas (fathead minnow)): > 100 mg/l 96 h Test Guideline 203
	y to daphnia and other c invertebrates	:	Exposure time:	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202
Toxicit plants	Toxicity to algae/aquatic plants		mg/l Exposure time:	irchneriella subcapitata (green algae)): > 100 72 h Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 32 72 h Test Guideline 201
<u>Comp</u>	onents:			
		glu		I-3-(perfluoromethyl)anilino]nicotinate:
Toxicit	y to fish	:	LC50 (Lepomis Exposure time: Method: FDA 4	
			LC50 (Oncorhy Exposure time: Method: FDA 4	
	y to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time: Method: FDA 4	
Toxicit plants	y to algae/aquatic	:	NOEC (Microcy Exposure time: Method: FDA 4	
			NOEC (Selenas Exposure time:	strum capricornutum (green algae)): 96 mg/l 12 d
Pheno	d:			





ersion I	Revision Date: 2023/09/30		08 Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
	y to daphnia and other invertebrates	:	EC50 (Ceriodap Exposure time: 4	hnia dubia (water flea)): 3.1 mg/l 48 h
Toxicity plants	y to algae/aquatic	:	EC50 (Selenast Exposure time: 9	rum capricornutum (green algae)): 61.1 mg 96 h
Toxicity icity)	y to fish (Chronic tox-	:	NOEC: 0.077 m Exposure time: (
	y to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	n magna (Water flea)): 10 mg/l 16 d
	y to microorganisms	:	IC50 (Nitrosomo Exposure time: 2	onas sp.): 21 mg/l 24 h
2,2'-lm	inodiethanol:			
Toxicity	y to fish	:	LC50 (Oncorhyr Exposure time: 9	nchus mykiss (rainbow trout)): 460 mg/l 96 h
	y to daphnia and other invertebrates	:	EC50 (Ceriodap Exposure time: 4	hnia dubia (water flea)): 30.1 mg/l 48 h
Toxicity to algae/aquatic plants		:	ErC50 (Pseudol mg/l Exposure time:	kirchneriella subcapitata (green algae)): 9.5 72 h
			EC10 (Pseudok mg/l Exposure time: ⁻	irchneriella subcapitata (green algae)): 1.1 72 h
aquatic	y to daphnia and other invertebrates (Chron-	:	EC10 (Daphnia Exposure time: 2	magna (Water flea)): 1.05 mg/l 21 d
ic toxic Toxicity	ity) / to microorganisms	:	Exposure time: 3	sludge): > 1,000 mg/l 30 min Test Guideline 209
Sodiur	n hydroxymethanesu	lphi	nate:	
Toxicity	y to fish	:	Exposure time: 9	s idus (Golden orfe)): > 10,000 mg/l 96 h d on data from similar materials
	/ to daphnia and other invertebrates	er : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials		
Toxicity plants	y to algae/aquatic	:	Exposure time:	esmus subspicatus (green algae)): 370 mg 72 h Test Guideline 201



	Revision Date: 2023/09/30		OS Number: 08634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
			Remarks: Based	on data from similar materials
Toxici	ty to fish (Chronic tox-	:	NOEC (Danio rer	io (zebra fish)): 13.5 mg/l
icity)			Exposure time: 3 Method: OECD T	
	ty to daphnia and other	:		magna (Water flea)): 5.6 mg/l
aquati ic toxi	c invertebrates (Chron- city)			est Guideline 211
			Remarks: Based	on data from similar materials
Toxici	ty to microorganisms	:	EC50: > 1,000 m Exposure time: 4	
			•	on data from similar materials
Persis	stence and degradabili	ity		
Comp	onents:			
	xy-1-(methylamino)-D- ity in water	·giu :	Hydrolysis: 0 %(2	
Stabili Phene	ity in water	·giu :	Hydrolysis: 0 %(2	28 d)
Stabili Phene	ity in water	·giu :	Hydrolysis: 0 %(2 Result: Readily b Biodegradation:	iodegradable. 62 %
Stabili Phene	ity in water	.giu :	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 1	iodegradable. 62 %
Stabili Phene Biode	ity in water ol: gradability	·giu :	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 1	iodegradable. 62 % 0 d
Stabili Phene Biode 2,2'-In	ity in water	•giu : :	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 1 Method: OECD T Result: Readily b	iodegradable. 62 % 0 d est Guideline 301C iodegradable.
Stabili Phene Biode 2,2'-In	ity in water ol: gradability ninodiethanol:	•giu : :	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20	iodegradable. 62 % 0 d est Guideline 301C iodegradable. 93 % 8 d
Stabili Phene Biode 2,2'-In	ity in water ol: gradability ninodiethanol:	•giu :	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20	28 d) iodegradable. 62 % 0 d iest Guideline 301C iodegradable. 93 %
Stabili Phene Biode 2,2'-In Biode	ity in water ol: gradability ninodiethanol: gradability m hydroxymethanesu	:	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T	iodegradable. 62 % 0 d est Guideline 301C iodegradable. 93 % 8 d
Stabili Phene Biode 2,2'-In Biode	ity in water ol: gradability ninodiethanol: gradability	:	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T inate: Result: Readily b	iodegradable. 62 % 0 d fest Guideline 301C iodegradable. 93 % 8 d fest Guideline 301F
Stabili Phene Biode 2,2'-In Biode	ity in water ol: gradability ninodiethanol: gradability m hydroxymethanesu	:	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T inate: Result: Readily b Biodegradation: Exposure time: 20	iodegradable. 62 % 0 d Test Guideline 301C iodegradable. 93 % 8 d Test Guideline 301F iodegradable. 77 % 8 d
Stabili Phene Biode 2,2'-In Biode	ity in water ol: gradability ninodiethanol: gradability m hydroxymethanesu	:	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T inate: Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T	iodegradable. 62 % 0 d fest Guideline 301C iodegradable. 93 % 8 d fest Guideline 301F iodegradable. 77 %
Stabili Phene Biode 2,2'-In Biode	ity in water ol: gradability ninodiethanol: gradability m hydroxymethanesu	:	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T inate: Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T	iodegradable. 62 % 0 d est Guideline 301C iodegradable. 93 % 8 d est Guideline 301F iodegradable. 77 % 8 d est Guideline 301B
Stabili Phene Biode 2,2'-In Biode Sodiu Biode	ity in water bl: gradability ninodiethanol: gradability Im hydroxymethanesu gradability	:	Hydrolysis: 0 %(2 Result: Readily b Biodegradation: Exposure time: 10 Method: OECD T Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T inate: Result: Readily b Biodegradation: Exposure time: 20 Method: OECD T	iodegradable. 62 % 0 d est Guideline 301C iodegradable. 93 % 8 d est Guideline 301F iodegradable. 77 % 8 d est Guideline 301B



ersion 1	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
Phen	ol:		
Bioac	cumulation		on factor (BCF): 17.5) Test Guideline 305
	on coefficient: n- ol/water	: log Pow: 1.47	
2,2'-Ir	ninodiethanol:		
	on coefficient: n- ol/water	: log Pow: -2.46 Method: OECE	D Test Guideline 107
Mobil	lity in soil		
<u>Comp</u>	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	
	r adverse effects ata available		
No da	ita available	DNS	
No da		DNS	
No da B. DISPO	ita available	DNS	
No da B. DISPO Dispo	ata available	: Do not dispose	e of waste into sewer.
No da B. DISPO Dispo Waste	ata available SAL CONSIDERATIC	 Do not dispose Dispose of in a Empty contained dling site for red 	accordance with local regulations.
No da 3. DISPO Dispo Waste Conta	e from residues	 Do not dispose Dispose of in a Empty contained dling site for realing site for realing site for realing 	nccordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta I. TRANS	ata available PSAL CONSIDERATIC DSAI methods the from residues aminated packaging	 Do not dispose Dispose of in a Empty contained dling site for realing site for realing site for realing 	nccordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta I. TRANS	ata available SAL CONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSI Regulations	 Do not dispose Dispose of in a Empty contained dling site for realing site for realing site for realing 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta Intern UNRT UNRT	Ata available SAL CONSIDERATION Sal methods a from residues aminated packaging SPORT INFORMATION national Regulations TDG umber	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise N N	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta Interr UNRT UNRT Prope	Ata available SAL CONSIDERATIONSIDERATIONS Sal methods a from residues aminated packaging SPORT INFORMATION Mational Regulations FDG Jumber er shipping name	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta I. TRANS Interr UNRT UNRT UNRT Class	Ata available SAL CONSIDERATIONSIDERATIONS Sal methods a from residues aminated packaging SPORT INFORMATION Mational Regulations FDG Jumber er shipping name	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise N N	nccordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta I. TRANS Interr UN nu Prope Class Subsi	Ata available SAL CONSIDERATION Sal methods the from residues aminated packaging SPORT INFORMATION National Regulations TDG Jumber er shipping name diary risk ng group	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable Not applicable Not applicable Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta I. TRANS Interr UN nu Prope Class Subsi Packin Labels IATA-	Ata available SAL CONSIDERATION SAL CONSIDERATION Sal methods a from residues a minated packaging SPORT INFORMATION NATIONAL Regulations TDG umber er shipping name diary risk ng group s -DGR	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta Interr UNRT UN nu Prope Class Subsi Packin Labels IATA - UN/ID	Ata available SAL CONSIDERATION SAL CONSIDERATION Sal methods a from residues a minated packaging SPORT INFORMATION Ational Regulations TDG umber er shipping name diary risk ng group s -DGR D No.	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta Interr UNRT UN nu Prope Class Subsi Packin Labels IATA - UN/ID	Ata available SAL CONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDERATIONSIDER SPORT INFORMATIONSIDERATIONSIDER Ational Regulations TDG Jumber Ser shipping name diary risk ng group S DGR O No. Ser shipping name	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta Conta Mathematical Conta Conta UNAT UN nu Prope Class Subsi Packii Labels IATA- UN/ID Prope Class Subsi Subsi Subsi Subsi Subsi Subsi Subsi Subsi	Ata available SAL CONSIDERATIONSIDERATIONS Sal methods e from residues aminated packaging SPORT INFORMATION Ational Regulations TDG umber er shipping name diary risk ng group s DGR O No. er shipping name diary risk	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.
No da Dispo Waste Conta Conta Mathematical Conta Conta UNAT UN nu Prope Class Subsi Packii Labels IATA- UN/ID Prope Class Subsi Subsi Subsi Subsi Subsi Subsi Subsi Subsi	Ata available SAL CONSIDERATION SAL CONSIDERATION Sal methods a from residues a minated packaging SPORT INFORMATION Ational Regulations TDG umber er shipping name diary risk ng group s DGR D No. er shipping name diary risk ng group s	 Do not dispose Dispose of in a Empty contained dling site for real of not otherwise Not applicable 	accordance with local regulations. ers should be taken to an approved waste h cycling or disposal.



	2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
	ng instruction (passen- ircraft)	: Not applicable	
IMDG	i-Code		
	umber	: Not applicable : Not applicable	
Class	er shipping name	: Not applicable	
	diary risk	: Not applicable	
Packi Label	ng group	: Not applicable : Not applicable	
EmS	-	: Not applicable	
Marin	e pollutant	: Not applicable	
Trans	sport in bulk according	g to Annex II of MAR	POL 73/78 and the IBC Code
Not a	pplicable for product as	supplied.	
Spec	ial precautions for use	er	
Not a	pplicable		
	LATORY INFORMATION INFORMATIO	-	gislation specific for the substance or n
Safet ture Minis ter of	y, health and environ ter of Industry Regula	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2	ER/4/2013 concerning the Revision of M 2009 concerning Globally Harmonized S
Safet ture Minis ter of tem of Regu	y, health and environ ter of Industry Regula Industry Regulation I of Classification and L	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical	ER/4/2013 concerning the Revision of M 2009 concerning Globally Harmonized S
Safet ture Minis ter of tem c Regu Haza	y, health and environ ter of Industry Regula Industry Regulation I of Classification and L lation of the Minister of	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1	ER/4/2013 concerning the Revision of M 2009 concerning Globally Harmonized S s.
Safet ture Minis ter of tem o Regu Haza Haza	y, health and environ ater of Industry Regula Industry Regulation I of Classification and L lation of the Minister rdous to Health rdous substances that r	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1 must be registered	ER/4/2013 concerning the Revision of Mi 2009 concerning Globally Harmonized S s. 1996 on the Safeguarding of Substances
Safet ture Minis ter of tem o Regu Haza Haza Haza	y, health and environ ater of Industry Regula Industry Regulation I of Classification and L lation of the Minister rdous to Health rdous substances that r	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1 must be registered o. 74 of 2001 on the N	ER/4/2013 concerning the Revision of Mi 2009 concerning Globally Harmonized S s. 1996 on the Safeguarding of Substances : Phenol
Safet ture Minis ter of tem o Regu Haza Haza Gove stano Haza	y, health and environ eter of Industry Regula industry Regulation I of Classification and L lation of the Minister of rdous to Health rdous substances that r	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1 must be registered o. 74 of 2001 on the N	ER/4/2013 concerning the Revision of Mi 2009 concerning Globally Harmonized S s. 1996 on the Safeguarding of Substances : Phenol Ianagement of Hazardous and Toxic Su : 2,2'-Iminodiethanol
Safet ture Minis ter of tem o Regu Haza Haza Gove stano Haza	y, health and environ ater of Industry Regulation I Industry Regulation I of Classification and L Ilation of the Minister of rdous to Health rdous substances that r ernment Regulation No ces rdous substances appro	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1 must be registered o. 74 of 2001 on the N	ER/4/2013 concerning the Revision of Mi 2009 concerning Globally Harmonized S s. 1996 on the Safeguarding of Substances : Phenol Ianagement of Hazardous and Toxic Su : 2,2'-Iminodiethanol Phenol
Safet ture Minis ter of tem o Regu Haza Haza Gove stano Haza Prohi Restr	y, health and environ ater of Industry Regulation I of Classification and L alation of the Minister of rdous to Health rdous substances that r ernment Regulation No es rdous substances appro- bited substances icted substances	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1 must be registered b. 74 of 2001 on the N oved for use	ER/4/2013 concerning the Revision of Mi 2009 concerning Globally Harmonized S s. 1996 on the Safeguarding of Substances : Phenol Ianagement of Hazardous and Toxic Su : 2,2'-Iminodiethanol Phenol : Not applicable
Safet ture Minis ter of tem o Regu Haza Haza Gove stand Haza Prohi Restr Regu Mate Type	y, health and environ ater of Industry Regulation I of Classification and L lation of the Minister of rdous to Health rdous substances that r ernment Regulation No ces rdous substances appro- bited substances icted substances	mental regulations/le ation No. 23/M-IND/PE No. 87/M-IND/PER/9/2 abelling of Chemical of Health No. 472 of 1 must be registered b. 74 of 2001 on the M oved for use	ER/4/2013 concerning the Revision of Mi 2009 concerning Globally Harmonized S s. 1996 on the Safeguarding of Substances : Phenol Ianagement of Hazardous and Toxic Su : 2,2'-Iminodiethanol Phenol : Not applicable : Not applicable





Version 3.1	Revision Date: 2023/09/30	SDS Number: 1308634-00017	Date of last issue: 2023/04/04 Date of first issue: 2017/02/21
The AICS	•	-	d in the following inventories:
AICS	5	: not determine	ea
DSL		: not determine	ed
IECS	SC	: not determine	ed
16. OTHE	ER INFORMATION		
Revi	sion Date	: 2023/09/30	
Furt	her information		
	rces of key data used to pile the Safety Data et		nical data, data from raw material SDSs, OECD al search results and European Chemicals Agen- a.europa.eu/
Date	e format	: yyyy/mm/dd	
Full	text of other abbrevia	tions	
ACG			Threshold Limit Values (TLV)
ACG ID O			ogical Exposure Indices (BEI)
ID O		. Indonesia. O	ccupational Exposure Limits
	GIH / TWA		weighted average
ID O	EL / NAB	: Long term ex	posure limit
Land Card Stan x% (ENC x% (tem; - Int Equi cent cal s Mari gani cent Leth n.o.s Cond	d of Brazil; ASTM - Am sinogen, Mutagen or F idardisation; DSL - Dom response; ELx - Loadii S - Existing and New growth rate response; E GLP - Good Laborator remational Air Transpo pment of Ships carryin ration; ICAO - Internatio Substances in China; II time Organization; ISH sation for Standardizati ration to 50 % of a test al Dose); MARPOL - I ding Rate; NOM - Offici and Inventory of Chem	erican Society for the Reproductive Toxical nestic Substances L ing rate associated Chemical Substance RG - Emergency R y Practice; IARC - In ort Association; IBC g Dangerous Chemonal Civil Aviation O MDG - International L - Industrial Safety on; KECI - Korea E population; LD50 - International Conve cified; Nch - Chilean No Observed (Adve al Mexican Norm; N icals; OECD - Orga	hicals; ANTT - National Agency for Transport to the Testing of Materials; bw - Body weight; CMR ant; DIN - Standard of the German Institute for ist (Canada); ECx - Concentration associated wir with x% response; EmS - Emergency Schedule es (Japan); ErCx - Concentration associated wir response Guide; GHS - Globally Harmonized Sys- neternational Agency for Research on Cancer; IAT C - International Code for the Construction ar- nicals in Bulk; IC50 - Half maximal inhibitory con- brganization; IECSC - Inventory of Existing Chem I Maritime Dangerous Goods; IMO - International O Existing Chemicals Inventory; LC50 - Lethal Con- Lethal Dose to 50% of a test population (Media ntion for the Prevention of Pollution from Ship Norm; NO(A)EC - No Observed (Adverse) Effer rse) Effect Level; NOELR - No Observable Effer NTP - National Toxicology Program; NZIOC - Ne- inization for Economic Co-operation and Develop Pollution Prevention PBT - Persistent Bioaccum

ment; 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 - Trans-



Flunixin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2023/04/04
3.1	2023/09/30	1308634-00017	Date of first issue: 2017/02/21

portation 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.

ID / EN