

according to the OSHA Hazard Communication Standard

Flunixin Injection Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
7.1	09/30/2023	1308645-00017	Date of first issue: 02/21/2017

SECTION 1. IDENTIFICATION

Product name	:	Flunixin Injection Formulation
Manufacturer or supplier's	deta	ails
Company name of supplier		Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com
Recommended use of the c	hen	nical and restrictions on use
Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Acute toxicity (Oral)	:	Category 4		
Acute toxicity (Inhalation)	:	Category 3		
Serious eye damage	:	Category 1		
Reproductive toxicity	:	Category 2		
Specific target organ toxicity - repeated exposure	:	Category 1 (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. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs (Gastrointestinal tract, Kidney, Blood) through prolonged or repeated exposure. 		
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.		





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		P264 Wash ski P270 Do not ea P271 Use only	eathe mist or vapors. n thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. tective gloves, protective clothing, eye protectior ction.
		unwell. Rinse n P304 + P340 + and keep comfe P305 + P351 + water for sever and easy to do CENTER.	P330 IF SWALLOWED: Call a doctor if you feel nouth. P311 IF INHALED: Remove person to fresh air ortable for breathing. Call a doctor. P338 + P310 IF IN EYES: Rinse cautiously with al minutes. Remove contact lenses, if present . Continue rinsing. Immediately call a POISON F exposed or concerned: Get medical attention.
		Storage: P405 Store locl	ked up.
		Disposal:	of contents and container to an approved waste

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Propylene glycol	57-55-6	20.72
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-	42461-84-7	8.5
(perfluoromethyl)anilino]nicotinate	108-95-2	0.5
2,2'-Iminodiethanol	111-42-2	0.4
Sodium hydroxymethanesulphinate	6035-47-8	0.25

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.



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In case of skin contact		:	In case of contact, immediately flush skin with soap and plen 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 Get medical atten Rinse mouth thor	NOT induce vomiting.
	important symptoms effects, both acute and /ed	:	Harmful if swallow Causes serious e Toxic if inhaled. Suspected of dan	ved.
	ection of first-aiders s to physician	:	 exposure. 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). Treat symptomatically and supportively. 	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Fluorine compounds Nitrogen oxides (NOx)
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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





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Environmental precautions		:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m employed in the o determine which the Sections 13 and	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding itional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not breathe mist or vapors. 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 safety practice, based on the results of the workplace exposure assessment 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.
Conditions for safe storage	:	Keep in properly labeled 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	:	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m ³	US WEEL
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
Phenol	108-95-2	TWA	5 ppm	ACGIH
		TWA	5 ppm 19 mg/m³	NIOSH REL
		С	15.6 ppm 60 mg/m³	NIOSH REL
		TWA	5 ppm 19 mg/m³	OSHA Z-1
2,2'-Iminodiethanol	111-42-2	TWA (Inhal- able fraction and vapor)	1 mg/m ³	ACGIH
		TWA	3 ppm 15 mg/m³	NIOSH REL

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 containment devices). Minimize open handling.
Dereand protective equipment	

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to





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Hand	protection	concentration unknown, ap Follow OSH/ use NIOSH/N by air purifyir hazardous ch supplied resp release, expo	or exposures below recommended limits. Where hs are above recommended limits or are propriate respiratory protection should be worn. A respirator regulations (29 CFR 1910.134) and ASHA approved respirators. Protection provided by respirators against exposure to any hemical is limited. Use a positive pressure air pirator if there is any potential for uncontrolled by use levels are unknown, or any other where air purifying respirators may not provide otection.
Ma	aterial	: Chemical-res	sistant gloves
	emarks protection	If the work er mists or aero Wear a faces	uble gloving. glasses with side shields or goggles. hvironment or activity involves dusty conditions, sols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or
Skin a	and body protection	Additional bo task being pe disposable se	n or laboratory coat. dy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, uits) to avoid exposed skin surfaces. ate degowning techniques to remove potentially d clothing.
Hygie	ene measures	: If exposure to eye flushing : working place When using of Wash contan The effective engineering of appropriate of industrial hyg	o chemical is likely during typical use, provide systems and safety showers close to the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	clear
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	7.8 - 9.0
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available



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	range				
	Flash p	oint	:	No data available	
	Evapora	ation rate	:	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	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density		:	No data available	
	Solubili Wate	ty(ies) er solubility	:	No data available	
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosit Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.





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	mpatible materials ardous decomposition ucts	:	Oxidizing agents No hazardous de	ecomposition products are known.				
SECTION	SECTION 11. TOXICOLOGICAL INFORMATION							
Inha Skin Inge	rmation on likely route lation contact stion contact	s of	exposure					
	te toxicity							
	nful if swallowed. c if inhaled.							
Proc	duct:							
Acut	e oral toxicity	:	Acute toxicity est Method: Calculat	imate: 604.68 mg/kg ion method				
Acut	e inhalation toxicity	:	Acute toxicity est Exposure time: 4 Test atmosphere Method: Calculat	: dust/mist				
Acut	e dermal toxicity	:	Acute toxicity est Method: Calculat	imate: > 5,000 mg/kg ion method				
Com	iponents:							
Prop	oylene glycol:							
Acut	e oral toxicity	:	LD50 (Rat): 22,00	00 mg/kg				
Acut	e inhalation toxicity	:	LC50 (Rat): > 44. Exposure time: 4 Test atmosphere	h				
Acut	e dermal toxicity	:	LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg e substance or mixture has no acute dermal				
1-de	oxy-1-(methylamino)-E)-glu	citol 2-[2-methyl-	3-(perfluoromethyl)anilino]nicotinate:				
	e oral toxicity	:	LD50 (Rat): 53 -					
			LD50 (Mouse): 1	76 - 249 mg/kg				
			LD50 (Guinea piç	g): 488.3 mg/kg				
			LD50 (Monkey): 3	300 mg/kg				
Acut	e inhalation toxicity	:	LC50 (Rat): < 0.5 Exposure time: 4					



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				Test atmosphere:	dust/mist
		oxicity (other routes of stration)	:	LD50 (Rat): 59.4 · Application Route	
				LD50 (Mouse): 16 Application Route	
	Pheno	l:			
	Acute o	oral toxicity	:	LD50 (Rat): 650 n Method: OECD To	
				Acute toxicity esti Method: Expert ju	mate (Humans): 140 - 290 mg/kg idgment
	Acute i	nhalation toxicity	:	LC0 (Rat): 0.9 mg Exposure time: 8 Test atmosphere: Assessment: Corr	h
				Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju	dust/mist
	Acute o	lermal toxicity	:	LD50 (Rabbit): 66 Method: OECD Te	
				Acute toxicity esti Method: Expert ju	mate (Humans): 300 mg/kg idgment
	2 2'-lm	inodiethanol:			
	•	oral toxicity	:	LD50 (Rat): 1,600) mg/kg
	Acute i	nhalation toxicity	:	LC50 (Rat, male): Exposure time: 4 Test atmosphere:	h
	o				
		n hydroxymethanesu bral toxicity	ipn :	LD50 (Rat): > 5,0 Method: OECD T	
	Acute o	dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Remarks: Based o	

Skin corrosion/irritation

Not classified based on available information.



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<u>Comp</u>	onents:		
Propy	lene glycol:		
Specie		: Rabbit	
Metho		: OECD Test C	Guideline 404
Result	t	: No skin irritat	ion
1-deo:	xy-1-(methylamino))-D-glucitol 2-[2-met	hyl-3-(perfluoromethyl)anilino]nicotina
Specie	es	: Rabbit	
Result		: Mild skin irrita	ation
Pheno	ol:		
Specie	25	: Rabbit	
Result			er 3 minutes to 1 hour of exposure
2.2'-In	ninodiethanol:		
Specie		: Rabbit	
Result		: Skin irritation	
Sodiu	m hydroxymethane	sulphinato.	
ooulu		-	
Spacio			
Specie		: Rat : No skin irritat	ion
Result Remai	rks	: No skin irritat : Based on dat	ion a from similar materials
Result Remain Seriou Cause	t	: No skin irritat : Based on dat irritation	
Result Remain Seriou Cause	rks u s eye damage/eye es serious eye damaç	: No skin irritat : Based on dat irritation	
Result Remain Seriou Cause	t rks u s eye damage/eye es serious eye damag ponents: rlene glycol:	: No skin irritat : Based on dat irritation	
Result Remain Seriou Cause Comp Propy	t rks u s eye damage/eye es serious eye damag ponents: rlene glycol: es	: No skin irritat : Based on dat irritation ge. : Rabbit : No eye irritati	a from similar materials
Result Remain Seriou Cause Comp Propy Specie	t rks u s eye damage/eye es serious eye damag conents: r lene glycol: es	: No skin irritat : Based on dat irritation ge. : Rabbit	a from similar materials
Result Remain Seriou Cause Comp Propy Specie Result Metho	t rks us eye damage/eye es serious eye damag onents: rlene glycol: es t d	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C 	ta from similar materials ion Guideline 405
Result Remain Seriou Cause Comp Propy Specie Result Metho 1-deox Specie	t rks u s eye damage/eye es serious eye damag conents: r lene glycol: es t d xy-1-(methylamino) es	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C 	ta from similar materials ion Guideline 405
Result Remain Seriou Cause Comp Propy Specie Result Metho 1-deox	t rks u s eye damage/eye es serious eye damag conents: r lene glycol: es t d xy-1-(methylamino) es	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C)-D-glucitol 2-[2-met Rabbit 	ta from similar materials ion Guideline 405
Result Remain Seriou Cause Comp Propy Specie Result Metho 1-deox Specie	t rks us eye damage/eye es serious eye damag ponents: rlene glycol: es t d xy-1-(methylamino) es	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C)-D-glucitol 2-[2-met Rabbit 	ia from similar materials ion Guideline 405 hyl-3-(perfluoromethyl)anilino]nicotina
Result Remain Seriou Cause Comp Propy Specie Result Metho Specie Result	t rks us eye damage/eye es serious eye damag <u>conents:</u> rlene glycol: es t d xy-1-(methylamino) es	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C)-D-glucitol 2-[2-met Rabbit 	ia from similar materials ion Guideline 405 hyl-3-(perfluoromethyl)anilino]nicotina
Result Remain Seriou Cause Comp Propy Specie Result Metho 1-deo: Specie Result Phenc	t rks us eye damage/eye es serious eye damag <u>onents:</u> rlene glycol: es t d xy-1-(methylamino) es t ol:	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C)-D-glucitol 2-[2-met Rabbit Irreversible e Rabbit 	ia from similar materials ion Guideline 405 hyl-3-(perfluoromethyl)anilino]nicotina
Result Remain Seriou Cause Comp Propy Specie Result Metho Specie Result Phence	t rks us eye damage/eye es serious eye damag <u>oonents:</u> rlene glycol: es t d xy-1-(methylamino) es t bl: es	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test C)-D-glucitol 2-[2-met Rabbit Irreversible e Rabbit 	ion Guideline 405 hyl-3-(perfluoromethyl)anilino]nicotina ffects on the eye
Result Remain Seriou Cause Comp Propy Specie Result Metho Specie Result Phence Specie Result Metho	t rks us eye damage/eye es serious eye damag <u>oonents:</u> rlene glycol: es t d xy-1-(methylamino) es t bl: es	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test O)-D-glucitol 2-[2-met Rabbit Irreversible e Rabbit Irreversible e 	ion Guideline 405 hyl-3-(perfluoromethyl)anilino]nicotina ffects on the eye
Result Remain Seriou Cause Comp Propy Specie Result Metho Specie Result Phence Specie Result Metho	t rks us eye damage/eye es serious eye damag <u>oonents:</u> rlene glycol: es t d xy-1-(methylamino) es t ol: es t d	 No skin irritat Based on dat irritation ge. Rabbit No eye irritati OECD Test O)-D-glucitol 2-[2-met Rabbit Irreversible e Rabbit Irreversible e 	ion Guideline 405 hyl-3-(perfluoromethyl)anilino]nicotina ffects on the eye



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Sodium hydroxymethanesulphinate:

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

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Propylene glycol:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

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

Test Type	:	Maximization Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Assessment	:	Does not cause skin sensitization.
Result	:	negative

Phenol:

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

2,2'-Iminodiethanol:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Sodium hydroxymethanesulphinate:

Test Type :	Maximization Test
Routes of exposure :	Skin contact
Species :	Guinea pig
Method :	OECD Test Guideline 406
Result :	negative
Remarks :	Based on data from similar materials

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	cell mutagenicity assified based on ava	ilable informatio	on.
Comp	oonents:		
Propy	/lene glycol:		
Genot	toxicity in vitro	: Test Typ Result: r	be: Bacterial reverse mutation assay (AMES) negative
			be: Chromosome aberration test in vitro OECD Test Guideline 473 negative
Genot	toxicity in vivo	cytogen Species	ion Route: Intraperitoneal injection
1-deo	xy-1-(methylamino)	D-glucitol 2-[2	-methyl-3-(perfluoromethyl)anilino]nicotinate:
Genot	toxicity in vitro	: Test Typ Result: r	be: Bacterial reverse mutation assay (AMES) negative
			be: in vitro test stem: mouse lymphoma cells positive
			be: Chromosomal aberration stem: Chinese hamster ovary cells positive
			be: in vitro test stem: Escherichia coli positive
Genot	toxicity in vivo	Species	ion Route: Oral
	cell mutagenicity - ssment	: Weight o cell muta	of evidence does not support classification as a gerr agen.
Phene	ol:		
Genot	toxicity in vitro		be: Chromosome aberration test in vitro OECD Test Guideline 473 positive
Genot	toxicity in vivo	cytogen Species Applicat	be: Mammalian erythrocyte micronucleus test (in viv etic assay) : Mouse ion Route: Intraperitoneal injection OECD Test Guideline 474
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			Result: positive Remarks: Annex	VI From 1272/2008
	cell mutagenicity - ssment	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
2,2'-lr	ninodiethanol:			
	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vitr Result: negative	o mammalian cell gene mutation test
			Test Type: Chro Result: negative	mosome aberration test in vitro
			Test Type: In vitr malian cells Result: negative	o sister chromatid exchange assay in mam-
Geno	toxicity in vivo	:	Test Type: Mami cytogenetic assa Species: Mouse Application Rout Result: negative	
Sodiu	Im hydroxymethanes	sulphi	inate:	
	toxicity in vitro	:	Test Type: Bacte Method: OECD T Result: negative	erial reverse mutation assay (AMES) Fest Guideline 471 on data from similar materials
Geno	toxicity in vivo	:	cytogenetic assa Species: Mouse Application Rout Method: OECD T Result: positive	malian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection Fest Guideline 474 on data from similar materials
	cell mutagenicity -	:	Positive result(s) genicity tests.	from in vivo mammalian somatic cell muta-
	nogenicity	ilable	information	
	assified based on avai	liable	information.	
Comp	<u>oonents:</u>			

Propylene glycol:

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	2 Years



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Resul	t	: negative			
1-deo	oxy-1-(methylamino)-D-glucitol 2-[2-methy	-3-(perfluoromethyl)anilino]nicotinate:		
Speci		: Rat			
	cation Route	: oral (feed)			
	sure time	: 104 w			
LOAE			oight		
Resul		: 2 mg/kg body w	eigin		
		: negative	two at		
	t Organs	: Gastrointestinal			
Rema	irks	: Significant toxic	ity observed in testing		
Speci		: Mouse			
	cation Route	: oral (feed)			
Expos	sure time	: 97 w			
NOAE	EL	: 0.6 mg/kg body	weight		
Resul	t	: negative			
Targe	t Organs	: Gastrointestinal	tract		
Rema	irks	: Significant toxic	ity observed in testing		
Phen	ol:				
Speci	on 00	: Mouse			
Speci					
	cation Route	: Ingestion			
	sure time	: 103 weeks			
Metho		: OECD Test Gui	deline 451		
Resul	t	: negative			
2,2'-Ir	ninodiethanol:				
Speci	es	: Mouse			
Applic	cation Route	: Skin contact			
	sure time	: 103 weeks			
Resul		: positive			
Rema		•	or mode of action may not be relevant in hu		
i torne		mans.			
Speci	es	: Rat			
	cation Route	: Skin contact			
	sure time	: 103 weeks			
Resul		: negative			
Carcir ment	nogenicity - Assess-	: Weight of evide cinogen	nce does not support classification as a car-		
IARC	Group 2B 2,2'-Imino	: Possibly carcinogenic to diethanol	o humans 111-42-2		
OSHA	•	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.			
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			





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•	ductive toxicity	ty or	the unborn child.	
<u>Comp</u>	onents:			
Propy	lene glycol:			
Effects	s on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study
Effects	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	vo-fetal development
1-deo	xy-1-(methylamino)-D-	-glu	citol 2-[2-methyl-:	3-(perfluoromethyl)anilino]nicotinate:
Effects	s on fertility	:	Species: Rat Application Route General Toxicity I Symptoms: No fe	Parent: LOAEL: 1 - 1.5 mg/kg body weigh tal abnormalities. s on fertility and early embryonic
Effects	s on fetal development	:	Embryo-fetal toxic Result: Embryoto	
			Species: Rabbit Application Route General Toxicity I Embryo-fetal toxic Result: Embryoto	vo-fetal development e: Oral Maternal: LOAEL: 3 mg/kg body weight city.: NOAEL: 3 mg/kg body weight xic effects and adverse effects on the tected only at high maternally toxic doses
Pheno	ol:			
Effects	s on fertility	:	Species: Rat Application Route	eneration reproduction toxicity study : Ingestion est Guideline 416
Effects	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Method: OECD T Result: negative	



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	ninodiethanol:			
Effect	s on fertility	:	Species: Rat Application Rou	generation reproduction toxicity study te: Ingestion Test Guideline 443
Effect	s on fetal development	:	Species: Rat Application Rou	generation reproduction toxicity study te: Ingestion Test Guideline 443
Repro sessm	ductive toxicity - As- nent	:		of adverse effects on sexual function and n development, based on animal experiments.
Sodiu	ım hydroxymethanesu	lph	inate:	
Effect	s on fertility	:	reproduction/dev Species: Rat Application Rour Method: OECD Result: negative	Test Guideline 422
Effect	s on fetal development	:	Species: Rat Application Rou Method: OECD Result: positive	ryo-fetal development te: Ingestion Test Guideline 414 d on data from similar materials
Repro sessm	eductive toxicity - As-	:	Some evidence animal experime	of adverse effects on development, based on ents.

STOT-single exposure

Not classified based on available information.

Components:

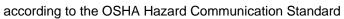
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:				
Assessment	:	May cause respiratory irritation.		

STOT-repeated exposure

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

Components:

1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:Target Organs: Gastrointestinal tract, Kidney, Blood





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Asses	sment	: Causes damage to organs through prolonged or repeated exposure.
	ol: t Organs ssment	Central nervous system, Kidney, Liver, SkinMay cause damage to organs through prolonged or repeated
0.01.1-		exposure.
Route Targe	ninodiethanol: is of exposure t Organs isment	 Ingestion Kidney, Blood, Liver, Nervous system Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.
Targe	s of exposure t Organs ssment	 inhalation (dust/mist/fume) Kidney, Blood Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.
Targe	s of exposure t Organs ssment	 Skin contact Blood, Liver, Kidney Shown to produce significant health effects in animals at concentrations of >20 to 200 mg/kg bw.
Repea	ated dose toxicity	
<u>Comp</u>	oonents:	
Specie NOAE Applic		 Rat, male >= 1,700 mg/kg Ingestion 2 y
1-deo	xy-1-(methylamino)-	D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate:
Specie NOAE LOAE Applic Expos	es EL	 Rat 2 mg/kg < 4 mg/kg Oral 6 w Gastrointestinal tract
Expos		: Rat : 1 mg/kg : Oral : 1 y : Gastrointestinal tract, Kidney
Specie NOAE Applic		: Monkey : 15 mg/kg : Oral



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	ure time t Organs	: 90 d : Gastrointestinal	tract, Blood
	L ation Route ure time	: Rabbit : 80 mg/kg : Dermal : 21 d : Severe irritation	1
Expos	L ation Route ure time t Organs	: Dog : 11 mg/kg : Oral : 9 d : Gastrointestinal : Vomiting	tract
Pheno			
	L ation Route ure time	: Rat : 300 mg/kg : Ingestion : 90 Days : OECD Test Gui	deline 408
		: Rat : >= 0.1 mg/l : inhalation (vapo : 74 Days	pr)
		: Rabbit : 260 mg/kg : Skin contact : 18 Days	
	ninodiethanol:		
		: Rat, female : 14 mg/kg : Ingestion : 13 Weeks	
	L ation Route ure time	: Rat : 0.015 mg/l : inhalation (dust : 90 Days : OECD Test Gui	
		: Rat : 32 mg/kg : Skin contact : 13 Weeks	

Sodium hydroxymethanesulphinate:

Species

: Rat



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Expo Meth	lication Route	: 600 mg/kg : Ingestion : 90 Days : OECD Test Gu : Based on data	uideline 408 from similar materials

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

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

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 32 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Components:		
Propylene glycol: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h

- Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l aquatic invertebrates Exposure time: 48 h
- Toxicity to algae/aquatic : ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l



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	plants			Exposure time: 72 Method: OECD Te			
		y to daphnia and other invertebrates (Chron- itv)	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 13,020 mg/l d		
		y to microorganisms	:	NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h			
	1-deox	v-1-(methylamino)-D-	alu	citol 2-[2-methyl-3	-(perfluoromethyl)anilino]nicotinate:		
		y to fish	:		acrochirus (Bluegill sunfish)): 28 mg/l		
				LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11			
		y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08			
	Toxicity plants	y to algae/aquatic	:	NOEC (Microcysti Exposure time: 13 Method: FDA 4.01			
				NOEC (Selenastri Exposure time: 12	um capricornutum (green algae)): 96 mg/l 2 d		
	Pheno	l:					
		y to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 24.9 mg/l 5 h		
		y to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 3.1 mg/l 3 h		
	Toxicity plants	y to algae/aquatic	:	EC50 (Selenastru Exposure time: 96	m capricornutum (green algae)): 61.1 mg/l Sh		
	Toxicity icity)	y to fish (Chronic tox-	:	NOEC: 0.077 mg/ Exposure time: 60			
		y to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 16	nagna (Water flea)): 10 mg/l 3 d		
		y to microorganisms	:	IC50 (Nitrosomon Exposure time: 24			
	2.2'-lm	inodiethanol:					
		y to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 460 mg/l ১ h		



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/ersion ′.1	Revision Date: 09/30/2023		0S Number: 08645-00017	Date of last issue: 04/04/2023 Date of first issue: 02/21/2017
	y to daphnia and other c invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 30.1 mg/l } h
Toxicit plants	y to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 9.5 2 h
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 1.1 2 h
aquatio	y to daphnia and other c invertebrates (Chron-	:	EC10 (Daphnia m Exposure time: 21	agna (Water flea)): 1.05 mg/l I d
ic toxic Toxicit	y to microorganisms	:	EC10 (activated s Exposure time: 30 Method: OECD Te	
Sodiu	m hydroxymethanesu	lphi	inate:	
	y to fish	:	LC50 (Leuciscus i Exposure time: 96	idus (Golden orfe)): > 10,000 mg/l 5 h on data from similar materials
	y to daphnia and other c invertebrates	:	Exposure time: 48 Method: OECD Te	
Toxicit plants	y to algae/aquatic	:	Exposure time: 72 Method: OECD Te	
Toxicit icity)	y to fish (Chronic tox-	:	Exposure time: 35 Method: OECD Te	
	y to daphnia and other c invertebrates (Chron- sity)	:	Exposure time: 21 Method: OECD Te	
Toxicit	y to microorganisms	:	EC50: > 1,000 mg Exposure time: 4 Remarks: Based o	
Persis	tence and degradabili	ity		
	onents:	-		
	lene glycol:			
	gradability	:	Result: Readily bi	odegradable.



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ersion I	Revision Date: 09/30/2023		S Number: 8645-00017	Date of last issue: 04/04/2023 Date of first issue: 02/21/2017
			Biodegradation: Exposure time: Method: OECD	
1-dec	oxy-1-(methylamino)	-D-gluc	itol 2-[2-methy	I-3-(perfluoromethyl)anilino]nicotinate:
Stabil	lity in water	:	Hydrolysis: 0 %	(28 d)
Phen	ol:			
Biode	egradability		Result: Readily Biodegradation: Exposure time: Method: OECD	62 %
2.2'-lı	minodiethanol:			
	egradability		Result: Readily Biodegradation: Exposure time: Method: OECD	93 %
Sodiu	um hydroxymethane	sulphir	nate:	
	egradability	:	Result: Readily Biodegradation: Exposure time: Method: OECD	77 %
Bioad	ccumulative potentia	al		
<u>Com</u>	ponents:			
Prop	ylene glycol:			
	ion coefficient: n- ol/water		log Pow: -1.07 Method: Regula	tion (EC) No. 440/2008, Annex, A.8
1-dec	oxy-1-(methylamino)	-D-gluc	itol 2-[2-methy	I-3-(perfluoromethyl)anilino]nicotinate:
	ion coefficient: n- ol/water	:	log Pow: 1.34	
Phen	ol:			
Bioac	cumulation			n factor (BCF): 17.5 Test Guideline 305
	ion coefficient: n- ol/water	:	log Pow: 1.47	
2,2'-lı	minodiethanol:			
	ion coefficient: n- ol/water		log Pow: -2.46 Method: OECD	Test Guideline 107

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Mobil	lity in soil						
Comp	oonents:						
	1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-(perfluoromethyl)anilino]nicotinate: Distribution among environ- : log Koc: 1.92						
	mental compartments						
Other	Other adverse effects						
No da	No data available						
SECTION	SECTION 13. DISPOSAL CONSIDERATIONS						
Dispo	osal methods						
Waste	e from residues		ccordance with local regulations. of waste into sewer.				

		Do not dispose of waste into sewer.
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

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

Domestic regulation

49 CFR		
UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (2,2'-Iminodiethanol)
Class	:	9
Packing group	:	
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	no
Remarks	:	THE ABOVE INFORMATION ONLY APPLIES TO PACKAGE
		SIZES WHERE THE HAZARDOUS SUBSTANCE MEETS
		THE REPORTABLE QUANTITY.

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.



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SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
2,2'-Iminodiethanol	111-42-2	100	25000
Phenol	108-95-2	1000	200000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
Phenol	108-95-2	1000	200000

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Acute toxicity (any route of exposure) Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Serious eye damage or eye irritation
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Water	7732-18-5
Propylene glycol	57-55-6
1-deoxy-1-(methylamino)-D-glucitol 2-[2-methyl-3-	42461-84-7
(perfluoromethyl)anilino]nicotinate	
Phenol	108-95-2
2,2'-Iminodiethanol	111-42-2

California Prop. 65

WARNING: This product can expose you to chemicals including 2,2'-Iminodiethanol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

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

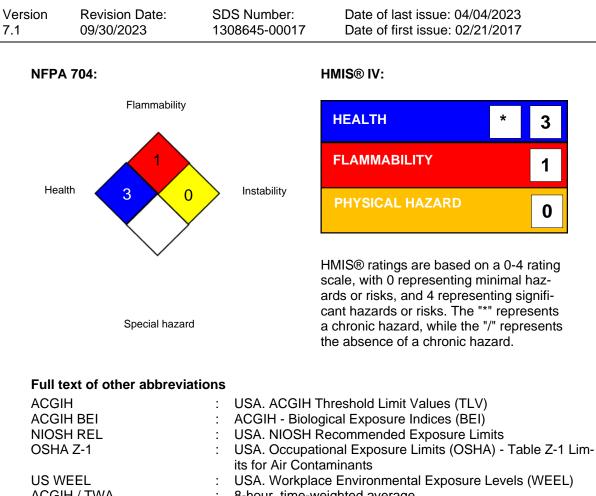
SECTION 16. OTHER INFORMATION

Further information



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ACGIH / TWA	: 8-hour, time-weighted average	,
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-l	hour
	workday during a 40-hour workweek	
NIOSH REL / C	: Ceiling value not be exceeded at any time.	
OSHA Z-1 / TWA	: 8-hour time weighted average	
US WEEL / TWA	: 8-hr TWA	

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse)



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Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

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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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