

according to the OSHA Hazard Communication Standard

Florfenicol Premix Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
9.1	09/30/2023	437414-00019	Date of first issue: 01/06/2016

SECTION 1. IDENTIFICATION

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accord 1910.1200) Combustible dust	accordance with the OSHA Hazard Communication Standard (29 CFR		
Reproductive toxicity	:	Category 2	
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver, Brain, Testis, Spinal cord, Blood, gallbladder)	
GHS label elements Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H372 Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated expo- sure.	
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P264 Wash skin thoroughly after handling.	

according to the OSHA Hazard Communication Standard



Florfenicol Premix Formulation

9.1 09/30/2023 437414-00019 Date of first issue: 01/06/2016	Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
	9.1	09/30/2023	437414-00019	Date of first issue: 01/06/2016

P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Calcium carbonate	471-34-1	>= 90 - <= 100
Florfenicol	73231-34-2	>= 1 - < 5

Actual concentration is withheld as a trade secret

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. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water.
		Remove contaminated clothing and shoes. Get medical attention.
		Wash clothing before reuse.
		Thoroughly clean shoes before reuse.
In case of eye contact	:	
		Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting.
		Get medical attention.
Most important symptoms		Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and	:	Suspected of damaging fertility. Suspected of damaging the unborn child.
delayed		Causes damage to organs through prolonged or repeated
		exposure.
		Contact with dust can cause mechanical irritation or drying of



Version 9.1	Revision Date: 09/30/2023		9S Number: 7414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016		
Protection of first-aiders Notes to physician		 the skin. Dust contact with the eyes can lead to mechanical irritation. 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 ME	ASU	IRES			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical			
	itable extinguishing	:	None known.			
Spec	media Specific hazards during fire fighting		concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a plosion hazard. bustion products may be a hazard to health.		
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides			
Spec ods	ific extinguishing meth-	:	: Use extinguishing measures that are appropriate to local cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area.			
	ial protective equipment e-fighters	:	In the event of fir	e, wear self-contained breathing apparatus. tective equipment.		

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to

according to the OSHA Hazard Communication Standard



Florfenicol Premix Formulation

Version 9.1	Revision Date: 09/30/2023	SDS Number: 437414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
		Sections 13 a	ich regulations are applicable. nd 15 of this SDS provide information regarding r national requirements.
SECTION	7. HANDLING AND ST	TORAGE	
Techr	nical measures	causing an ex Provide adequ	ty may accumulate and ignite suspended dust plosion. Jate precautions, such as electrical grounding or inert atmospheres.
Local	/Total ventilation		adequate ventilation.
Advice on safe handling		: Do not breath Do not swallo Avoid contact Avoid prolong Wash skin the Handle in acc practice, base assessment Minimize dust Keep containe Keep away fro Take precauti Do not eat, dr	e dust. w.
Conditions for safe storage		Store locked u	rly labeled containers. .p. dance with the particular national regulations.
Materials to avoid		: Do not store v Strong oxidizi	with the following product types: ng agents substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters inert or nuisance dust 50 Million particles per cubic foot

50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3



according to the OSHA Hazard Communication Standard

ersion 1	Revision Date: 09/30/2023	SDS Number: 437414-00019		st issue: 04/04/2023 st issue: 01/06/2016	
				oot): TWA (respirable fra	action)
Dust, nuisance dust and par- ticulates			•	e): PEL (Total dust)	
		5 mg/m³ Value type (F Basis: CAL Pl		e): PEL (respirable du	st fraction)
Comp	oonents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Calciu	um carbonate	471-34-1	TWA (Res- pirable)	5 mg/m ³ (Calcium car- bonate)	NIOSH REL
			TWA (total)	10 mg/m ³ (Calcium car- bonate)	NIOSH REL
Florfe	nicol	73231-34-2	TWA	100 µg/m3 (OEB 2)	Internal
Perso	onal protective equipn	protect produ		rdance with GMP prin nd the environment.	iciples to
	ratory protection		local oxhaust w	ntilation is recommo	adad ta
		: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. When concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.			nits. Where are d be worn. 0.134) and on provided y sure air ontrolled er
	protection aterial	: Chemical-res	sistant gloves		
Eye p	rotection	If the work er mists or aero Wear a faces	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or		
Skin a	and body protection		n or laboratory c	oat.	





Version	Revision Date:		S Number:	Date of last issue: 04/04/2023			
9.1	09/30/2023	43	7414-00019	Date of first issue: 01/06/2016			
Hygiene measures		:	 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. 				
ECTION	9. PHYSICAL AND CH	EMI	CAL PROPERTIE	S			
Appe	arance	:	powder				
Color		:	white				
Odor		:	: No data available				
Odor	Threshold	:	: No data available				
pН		:	: No data available				
Meltir	ng point/freezing point	:	No data availabl	le			
Initial range	boiling point and boiling	:	No data availabl	le			

Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available



according to the OSHA Hazard Communication Standard

Florfenicol Premix Formulation

Versio 9.1	on Revision Date: 09/30/2023	SDS Number: 437414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
o A	Partition coefficient: n- octanol/water outoignition temperature	Not applicableNo data availab	
D	Decomposition temperature	: No data availab	le
V	/iscosity Viscosity, kinematic	: Not applicable	
E	explosive properties	: Not explosive	
	Dxidizing properties Particle size	: The substance of the	or mixture is not classified as oxidizing. le

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation				
Skin contact				
Ingestion				
Eye contact				

Acute toxicity

Not classified based on available information.

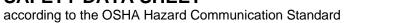
Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
		Method: Calculation method

Components:

Calcium	carbonate:
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Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg
-	Method: OECD Test Guideline 420
	Assessment: The substance or mixture has no acute oral tox-





Florfenicol Premix Formulation

rsion	Revision Date: 09/30/2023	-	OS Number: 7414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
			icity	
Acute	inhalation toxicity	:		: 4 h
Acute	dermal toxicity	:		2,000 mg/kg 0 Test Guideline 402 The substance or mixture has no acute derma
Florfe	enicol:			
Acute	oral toxicity	:	LD50 (Rat): > 2	2,000 mg/kg
			LD50 (Mouse)	: > 2,000 mg/kg
			LD50 (Dog): >	1,280 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time	
Acute	dermal toxicity	:	Remarks: No o	lata available
Acute toxicity (other routes of administration)		:		913 - 2,253 mg/kg ute: Intraperitoneal
			LD50 (Mouse) Application Ro	: 100 mg/kg ute: Intravenous
-	corrosion/irritation assified based on availa	b .l.a		
	oonents:	bie	information.	
-	um carbonate:			
Speci		:	Rabbit	
Metho Resul	bd	:	OECD Test Gu No skin irritatio	
Florfe	enicol:			
Speci		:	Rabbit	
Resul	t	:	No skin irritatio	n

Not classified based on available information.



according to the OSHA Hazard Communication Standard

ersion 1	Revision Date: 09/30/2023		DS Number: 7414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
<u>Com</u>	ponents:			
Calci	um carbonate:			
Speci	ies	:	Rabbit	
Resu		:	No eye irritatio	
Metho	bd	:	OECD Test Gu	uideline 405
Florfe	enicol:			
Speci		:	Rabbit	
Resu	It	:	Mild eye irritati	on
Resp	iratory or skin sensi	itizatio	on	
	sensitization		· • ·	
	lassified based on ava		information.	
-	iratory sensitization lassified based on ava		information.	
<u>Com</u>	ponents:			
Calci	um carbonate:			
Test ⁻	Туре	:	Local lymph no	ode assay (LLNA)
	es of exposure	:	Skin contact	
Speci Metho			Mouse OECD Test Gu	udeline 429
Resu		:	negative	
Florfe	enicol:			
Test ⁻	Туре	:	Maximization 7	Fest
Speci	ies	:	Guinea pig	
Resu	lt	:	negative	
Germ	cell mutagenicity			
	lassified based on ava	ailable	information.	
<u>Com</u>	<u>ponents:</u>			
	um carbonate:		-	
Geno	toxicity in vitro	•		cterial reverse mutation assay (AMES) Test Guideline 471
			Result: negativ	
				romosome aberration test in vitro
			Method: OECE	D Test Guideline 473
			Result: negativ	/e
			Test Type: In v	vitro mammalian cell gene mutation te
			Method: OECE	D Test Guideline 476
			Result: negativ	ve
Florf	enicol:			



according to the OSHA Hazard Communication Standard

Florfenicol Premix Formulation

Version 9.1	Revision Date: 09/30/2023	SDS Number: 437414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
Genot	oxicity in vitro	Result: negative Test Type: DNA thesis in mamma Test system: rat Result: negative Test Type: In vitr Test system: more	rial reverse mutation assay (AMES) damage and repair, unscheduled DNA syn- lian cells (in vitro) hepatocytes o mammalian cell gene mutation test use lymphoma cells
Genot	oxicity in vivo		narrow

Carcinogenicity

Not classified based on available information.

Components:

Florfenicol:

Species Application Route Exposure time Result Target Organs	 Rat oral (gavage) 2 Years negative Liver, Testes
Species Application Route Exposure time Result Target Organs	 Mouse oral (gavage) 2 Years negative Testes, Blood

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

- **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.

Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.





Florfenicol Premix Formulation

Ver 9.1	sion	Revision Date: 09/30/2023	-	9S Number: 7414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
	<u>Compo</u>	onents:			
		m carbonate: on fertility	:		
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative	
	Florfer	nicol:			
	Effects	on fertility	:	Species: Rat Application Route Fertility: LOAEL:	eneration reproduction toxicity study : Oral I2 mg/kg body weight I pup survival, reduced lactation
	Effects	on fetal development	:	Species: Rat General Toxicity M Embryo-fetal toxic Result: No teratog	o-fetal development Maternal: NOAEL: 4 mg/kg body weight city.: LOAEL: 40 mg/kg body weight genic effects., Fetotoxicity. ects were seen only at maternally toxic dos-
				Species: Mouse Application Route General Toxicity	Maternal: NOAEL: 120 mg/kg body weight ity.: LOAEL: 40 mg/kg body weight
	Reprod sessme	luctive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Liver, Brain, Testis, Spinal cord, Blood, gallbladder) through prolonged or repeated exposure.

according to the OSHA Hazard Communication Standard



Florfenicol Premix Formulation

Version 9.1	Revision Date: 09/30/2023	SDS Number: 437414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
Com	ponents:		
Targe	enicol: et Organs ssment		Testis, Spinal cord, Blood, gallbladder nage to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
Spec NOA Appli	EL cation Route sure time	: Rat : > 1,000 mg/ : Ingestion : 28 Days : OECD Test	′kg Guideline 422
Spec NOA Expo		: Dog : 3 mg/kg : 13 Weeks : Liver, Testis	s, Brain, Spinal cord
		: Mouse : 200 mg/kg : 13 Weeks : Liver, Testis	;
		: Rat : 30 mg/kg : 13 Weeks : Liver, Testis	i
	EL	: Dog : 3 mg/kg : 12 mg/kg : 52 Weeks : Liver, gallbla	adder
	EL	: Rat : 1 mg/kg : 3 mg/kg : 52 Weeks : Testis	
Aoni	ration toxicity		

Aspiration toxicity

Not classified based on available information.





Florfenicol Premix Formulation

9.1 09/30/2023 437414-00019 Date of first issue: 01/06/2016	Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
	9.1	09/30/2023	437414-00019	Date of first issue: 01/06/2016

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Calcium carbonate:		
Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOELR (Pseudokirchneriella subcapitata (green algae)): 50 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to microorganisms	:	NOEC: 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
		EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Florfenicol:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 830 mg/l Exposure time: 96 h Method: FDA 4.11
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 780 mg/l Exposure time: 96 h Method: FDA 4.11
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 330 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 2.9 mg/l Exposure time: 14 d





Florfenicol Premix Formulation

ersion 1	Revision Date: 09/30/2023	SDS Number: 437414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
		Method: FDA	4.01
		NOEC (Pseud mg/l Exposure time Method: FDA	
		IC50 (Skeleto Exposure time Method: ISO 2	
		NOEC (Skelet Exposure time Method: ISO 2	
		Exposure time	gibba (gibbous duckweed)): 0.76 mg/l e: 7 d D Test Guideline 221
		Exposure time	a gibba (gibbous duckweed)): 0.39 mg/l e: 7 d D Test Guideline 221
		Exposure time	la pelliculosa (Freshwater diatom)): 61 mg/l e: 72 h D Test Guideline 201
		Exposure time	ula pelliculosa (Freshwater diatom)): 19 mg/l e: 72 h D Test Guideline 201
		Exposure time	ena flos-aquae): 0.066 mg/l e: 72 h D Test Guideline 201
		Exposure time	aena flos-aquae): 0.051 mg/l e: 72 h D Test Guideline 201
Toxicity	y to fish (Chronic tox-	Exposure time	ohales promelas (fathead minnow)): 5.5 mg/l e: 32 d D Test Guideline 210
	y to daphnia and other invertebrates (Chron- ity)	Exposure time	nia magna (Water flea)): 1.5 mg/l e: 21 d D Test Guideline 211

Persistence and degradability

No data available





Florfenicol Premix Formulation

Versi 9.1	ion	Revision Date: 09/30/2023		DS Number: 87414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016
E	Bioaco	cumulative potential			
<u>(</u>	Components:				
F	Florfer	nicol:			
•		n coefficient: n- I/water	:	log Pow: 0.373 pH: 7	
Γ	Mobilit	ty in soil			
<u>(</u>	Compo	onents:			
F	Florfer	nicol:			
		ution among environ- compartments	:	Koc: 52 Method: FDA 3.03	8
C	Other a	adverse effects			
1	No data	a available			
SECT	TION 1	3. DISPOSAL CONSI	DEF	RATIONS	

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
		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		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Florfenicol)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956



according to the OSHA Hazard Communication Standard

Florfenicol Premix Formulation

Versio 9.1				OS Number: 7414-00019	Date of last issue: 04/04/2023 Date of first issue: 01/06/2016		
	Environmentally hazardous		:	yes			
U Pi C La Ei	IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		:	 UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Florfenicol) 9 III 9 F-A, S-F yes 			
Т	•			Annex II of MARP	OL 73/78 and the IBC Code		
D	Domestic regulation						
U Pi Pi La El	Proper Class Packing abels RG Co	NA number shipping name g group ode pollutant		(Florfenicol) 9 III CLASS 9 171 yes(Florfenicol) Above applies on liters. Shipment by grou may be shipped p	hazardous substance, solid, n.o.s. ly to containers over 119 gallons or 450 and under DOT is non-regulated; however it ber the applicable hazard classification to dal transport involving ICAO (IATA) or IMO.		

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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





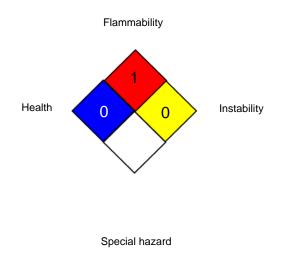
Florfenicol Premix Formulation

Version 9.1	Revision Date: 09/30/2023	SDS Number: 437414-00019		Date of last issue: 04/04/2023 Date of first issue: 01/06/2016			
SAR	SARA 313		hown CAS nu	does not contain any chemical components with umbers that exceed the threshold (De Minimis) s established by SARA Title III, Section 313.			
US S	US State Regulations						
Penr	Pennsylvania Right To Know						
	Calcium carbona Florfenicol	te		471-34-1 73231-34-2			
Calif	ornia Permissible Ex	posure L	imits for Ch	nemical Contaminants			
	Calcium carbona	te		471-34-1			
The i	The ingredients of this product are reported in the following inventories:						
AICS	;	: ne	ot determine	d			
DSL		: n	ot determine	d			
IECS	C	: n	ot determine	d			

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

CAL PEL	:	California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
CAL PEL / PEL	:	Permissible exposure limit



Florfenicol Premix Formulation

Version	Revision Date: 09/30/2023	SDS Number:	Date of last issue: 04/04/2023
9.1		437414-00019	Date of first issue: 01/06/2016
NIOSH REL / TWA		: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek	

OSHA Z-3 / TWA

8-hour time weighted average

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) 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 Amend-ments 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 compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Revision Date : 09/30/2023

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.

according to the OSHA Hazard Communication Standard



Florfenicol Premix Formulation

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US / Z8