

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
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### **SECTION 1. IDENTIFICATION**

Product name Other means of identification	<ul><li>Phthalylsulfathiazole / Sulfamerazine Formulation</li><li>No data available</li></ul>	
Manufacturer or supplier's o	letails	
Company name of supplier	· Merck & Co. Inc.	

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 chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

### **SECTION 2. HAZARDS IDENTIFICATION**

### GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

### Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Kaolin	Hydrated alumi- num silicate	1332-58-7	75
Phthalylsulfathiazole	Benzoic acid, 2- [[[4-[(2- thiazolyla- mino)sulfonyl]ph enyl]amino]carb onyl]-		10
Aluminum hydroxide	No data availa- ble	21645-51-2	10
Sulfamerazine	Benzenesulfon- amide, 4-amino-	127-79-7	5



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		(4-methyl-2- rimidinyl)-		

## 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 if symptoms occur.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed Protection of first-aiders Notes to physician	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. No special precautions are necessary for first aid responders. 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	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Metal oxides
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	:	Wear self-contained breathing apparatus for firefighting if



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for fire	-fighters		necessary. Use personal pro	tective equipment.
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES	
tive ec	nal precautions, protec- uipment and emer- procedures	:		ling advice (see section 7) and personal nent recommendations (see section 8).
Enviro	nmental precautions	:	Retain and dispose	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages
	ds and materials for nment and cleaning up	:	container for disp Avoid dispersal o with compressed Dust deposits sho surfaces, as thes released into the Local or national disposal of this m employed in the o determine which Sections 13 and	f dust in the air (i.e., clearing dust surfaces

## SECTION 7. HANDLING AND STORAGE

Technical measures	Static electricity may accumulate and ignite suspended dus causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.	
Local/Total ventilation	Use only with adequate ventilation.	
Advice on safe handling	Do not breathe dust.	
	Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure assessment	эty
	Minimize dust generation and accumulation.	
	Keep container closed when not in use.	
	Keep away from heat and sources of ignition.	
	Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to t environment.	the
Conditions for safe storage	Keep in properly labeled containers. Store in accordance with the particular national regulations.	
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	



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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
Kaolin	1332-58-7	TWA (Res- pirable)	2 mg/m³	CA AB OEL
		TWA (Res- pirable)	2 mg/m <sup>3</sup>	CA BC OEL
		TWAEV (respirable dust)	2 mg/m <sup>3</sup>	CA QC OEL
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
Phthalylsulfathiazole	85-73-4	TWA	OEB 2 (>= 100 < 1000 μg/m3)	Internal
Aluminum hydroxide	21645-51-2	TWA (Res- pirable)	1 mg/m <sup>3</sup> (Aluminum)	CA BC OEL
		TWAEV (respirable dust)	5 mg/m <sup>3</sup>	CA QC OEL
		TWA (Respirable particulate matter)	1 mg/m³ (Aluminum)	ACGIH
Sulfamerazine	127-79-7	TWA	OEB 2 (>= 100 < 1000 µg/m3)	Internal

:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
nt	
:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type
:	Chemical-resistant gloves
:	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
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	and body protection ne measures	<ul> <li>aerosols.</li> <li>Work uniform or</li> <li>If exposure to cl eye flushing sys working place.</li> <li>When using do Wash contamina The effective op engineering con appropriate deg</li> </ul>	nemical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	fine powder
Color	:	White to light yellow
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
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)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available
Density	:	No data available



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Wa Partiti octano	ility(ies) ater solubility on coefficient: n- ol/water gnition temperature	:	practically insolu Not applicable No data available	
Decor	nposition temperature	:	No data available	-
	sive properties	:	Not explosive	
	ing properties ular weight	:	The substance o	r mixture is not classified as oxidizing. e
	le characteristics le size	:	No data available	9

## 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.

### **Components:**

#### Kaolin:

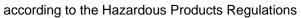
Acute oral toxicity

: LD50 (Rat): > 5,000 mg/kg



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	Acute c	lermal toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
	PhthalyIsulfathiazole: Acute oral toxicity		:	LD50 (Rat, female Method: OECD To Assessment: The icity	
	Acute c	lermal toxicity	:	LD50 (Rat): > 2,00 Method: OECD To Assessment: The toxicity	
	Alumin	um hydroxide:			
		oral toxicity	:	LD50 (Rat): > 2,00 Method: OECD To Assessment: The icity	
	Acute ii	nhalation toxicity	:	tion toxicity	h
	Sulfam	erazine:			
		oral toxicity	:	LD50 (Mouse): 25	5,000 mg/kg
	Skin co	orrosion/irritation			
	Not cla	ssified based on availa	ble	information.	
	Compo	onents:			
	Kaolin	:			
	Species Method Result		:	Rabbit OECD Test Guide No skin irritation	eline 404
	Phthal	ylsulfathiazole:			
	Species Method Result	S	:	Rabbit OECD Test Guide No skin irritation	eline 404
	Alumin	um hydroxide:			
	Specie: Method	5	:	Rabbit OECD Test Guide	eline 404

# SAFETY DATA SHEET





# Phthalylsulfathiazole / Sulfamerazine Formulation

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Re	Result :		No skin irritation		
		<b>s eye damage/eye iı</b> ssified based on avai			
<u>C</u>	ompo	onents:			
Ka	aolin	:			
	pecies esult	5	:	Rabbit No eye irritation	
Pł	hthal	ylsulfathiazole:			
	pecie: esult	8	:	Rabbit No eye irritation	
M	ethod	I	:	OECD Test Guide	eline 405
A	lumin	um hydroxide:			
	pecies	6	:	Rabbit	
	esult ethod	l	:	No eye irritation OECD Test Guide	eline 405
Re No	<b>espir</b> a ot clas	ssified based on avai atory sensitization ssified based on avai onents:			
		um hydroxide:			
Te Ro Sp M	est Ty	rpe of exposure s		Maximization Tes Skin contact Guinea pig OECD Test Guide negative	
		<b>cell mutagenicity</b> ssified based on avai	lable	information.	
<u>C</u>	ompo	onents:			
A	lumin	um hydroxide:			
G	enoto	xicity in vitro	:	Test Type: In vitro Method: OECD T Result: negative	o mammalian cell gene mutation test est Guideline 476
				Test Type: Chrom Result: positive	nosome aberration test in vitro
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		Remarks: E	Based on data from similar materials
		thesis in ma Result: equ	DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ivocal Based on data from similar materials
		Result: pos	in vitro micronucleus test itive Based on data from similar materials
Genc	otoxicity in vivo	cytogenetic Species: R Application	at Route: Ingestion ECD Test Guideline 474
	<b>inogenicity</b> lassified based on ava	ilable information.	
Com	ponents:		
Alum	ninum hydroxide:		
	cation Route sure time It	: 86 weeks : negative	dust/mist/fume) ata from similar materials
Repr	oductive toxicity		
-	lassified based on ava	ilable information.	
<u>Com</u>	ponents:		
Alum	ninum hydroxide:		
	ts on fertility		Combined repeated dose toxicity study with the n/developmental toxicity screening test

		Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Ingestion Result: negative

### STOT-single exposure

Not classified based on available information.



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## STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

### Components:

### Aluminum hydroxide:

Species NOAEL Application Route Exposure time Method Remarks		Rat > 100 mg/kg Ingestion 364 Days OECD Test Guideline 426 Based on data from similar materials
Species NOAEL Application Route Exposure time Remarks	: : : : : : : : : : : : : : : : : : : :	Rat > 0.2 mg/kg inhalation (dust/mist/fume) 12 Months Based on data from similar materials

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
PhthalyIsulfathiazole:		
Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded
Aluminum hydroxide: Toxicity to fish	:	LL50 (Salmo trutta (brown trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EL50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 96 h
Sulfamerazine: Toxicity to fish	:	LC50 (Morone saxatilis (striped bass)): > 100 mg/l Exposure time: 96 h



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	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 227 mg/l 3 h
Persistence and degradabili No data available Bioaccumulative potential		ity			
	<u>Components:</u>				
		<b>ylsulfathiazole:</b> n coefficient: n- l/water	:	log Pow: -2	
	ounun	nerazine: n coefficient: n- l/water	:	log Pow: 0.728	
		t <b>y in soil</b> a available			
	•••••	<b>adverse effects</b> a available			

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste from residues :		Do not dispose of waste into sewer. Dispose of in accordance with local regulations.	
Contaminated packaging	:	Empty containers should be taken to an approved waste 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**

**TDG** Not regulated as a dangerous good



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Special precautions for user Not applicable

#### **SECTION 15. REGULATORY INFORMATION**

The ingredients of this product are reported in the following inventories:			
AICS	:	not determined	
DSL	:	not determined	
IECSC	:	not determined	

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substanc-



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es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 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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