

Version 3.2	Revision Date: 28.09.2024		DS Number: 939810-00009	Date of last issue: 30.09.2023 Date of first issue: 26.05.2020			
SECTION 1: Identification of the substance/mixture and of the company/undertaking							
1.1 Produ	uct identifier						
Trad	e name	:	Phthalylsulfathiaz	cole / Sulfamerazine Formulation			
1.2 Relev	1.2 Relevant identified uses of the substance or mixture and uses advised against						
	of the Sub- ce/Mixture	:	Veterinary produc	ct			
Reco on us	ommended restrictions se	:	Not applicable				
1.3 Detai	1.3 Details of the supplier of the safety data sheet						
Com	pany	:	MSD				
			20 Spartan Road 1619 Spartan, So				
Tele	ohone	:	+27119239300				

1.4 Emergency telephone number

E-mail address of person

responsible for the SDS

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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

: EHSDATASTEWARD@msd.com

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 10%

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.



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May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure	e limit :	•	
Phthalylsulfathiazole	85-73-4 201-627-4		>= 10 - < 20
Sulfamerazine	127-79-7 204-866-2		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
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.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed



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Treat	ment	:	Treat symptomati	cally and supportively.		
SECTIO	N 5: Firefighting meas	sur	es			
5.1 Exting	5.1 Extinguishing media					
Suitable extinguishing media		:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical			
	Unsuitable extinguishing media		None known.			
5.2 Speci	5.2 Special hazards arising from the substance or mixture					
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	Hazardous combustion prod- : Carbon oxides ucts Nitrogen oxides (NOx) Sulphur oxides Metal oxides		NOx)			
5.3 Advic	e for firefighters					
	Special protective equipment:Wear self-contained breathing apparatus for firefightirfor firefightersessary. Use personal protective equipment.					
Spec ods	ific extinguishing meth-	 ing 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. 		the surrounding environment. to cool unopened containers.		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Follow safe handling advice (see section 7) and personal pr tective equipment recommendations (see section 8).	·0-
6.2 Environmental precautions 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.	



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6.3 Methods and material for containment and cleaning up

Methods for cle	eaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer 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 surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures :	Static electricity may accumulate and ignite suspended dust causing an explosion.
Local/Total ventilation : Advice on safe handling :	Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Use only with adequate ventilation. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition.
Hygiene measures :	Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. 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 contami- nated 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.
7.2 Conditions for safe storage, inc	cluding any incompatibilities

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents



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7.3 Specific end use(s)

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Aluminum hydrox- ide	21645-51-2	OEL-RL (respira- ble dust fraction)	2 mg/m3 (Aluminium)	ZA OEL
		nation: Occupational nemical Agents	Exposure Limits - Restricted	Limits For
Phthalylsulfathia- zole	85-73-4	TWA	OEB 2 (>= 100 < 1000 µg/m3)	Internal
Sulfamerazine	127-79-7	TWA	OEB 2 (>= 100 < 1000 µg/m3)	Internal

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

	· /	• •	· · /	
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Phthalylsulfathiazole	Workers	Inhalation	Long-term systemic effects	1,423 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,249 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,354 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,308 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	2,497 mg/kg bw/day
Aluminum hydroxide	Workers	Inhalation	Long-term local ef- fects	10,76 mg/m3
	Workers	Inhalation	Long-term local ef- fects	10,76 mg/m3
	Consumers	Ingestion	Long-term systemic effects	4,74 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment Value			
Phthalylsulfathiazole	Fresh water 0,191 mg/l			
	Freshwater - intermittent	0,191 mg/l		
	Marine water	0,019 mg/l		
	Sewage treatment plant	2,51 mg/l		
	Fresh water sediment	241,497 mg/kg dry weight (d.w.)		
	Marine sediment	241,497 mg/kg dry weight (d.w.)		



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		Soil	111,906 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

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.

Personal protective equipment

• • • •		
Eye/face protection	:	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 aerosols.
Hand protection		
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)
••		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	: : :	fine powder White to light yellow characteristic No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable



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	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	No data available	e
	Density	y	:	No data available	e
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature Viscosity Viscosity, kinematic Explosive properties Oxidizing properties			practically insolu Not applicable No data available No data available Not applicable Not explosive The substance o	e
9.2		nformation			
	Flamm	ability (liquids)	:	Not applicable	
	Molecu	ılar weight	:	No data available	e
	Particle	e size	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity Not classified as a reactivity haza	ard.
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reacti	ons
Hazardous reactions :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid :	Heat, flames and sparks. Avoid dust formation.
10.5 Incompatible materials Materials to avoid :	Oxidizing agents



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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

1.1 Information on toxicological effects			
Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact	
Acute toxicity			
Not classified based on availab	ble	information.	
Components:			
PhthalyIsulfathiazole:			
Acute oral toxicity	:	LD50 (Rat, female): > 2.000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity	
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity	
Sulfamerazine:			
Acute oral toxicity	:	LD50 (Mouse): 25.000 mg/kg	
Skin corrosion/irritation			
Not classified based on availab	ble	information.	
Components:			
PhthalyIsulfathiazole:			
Species	:	Rabbit	
Method	:	OECD Test Guideline 404	
Result	:	No skin irritation	
Serious eye damage/eye irrit	tati	on	
Not classified based on availab	ble	information.	
Components:			
PhthalyIsulfathiazole:			
Species	:	Rabbit	
Method	:	OECD Test Guideline 405	
Result	:	No eye irritation	



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Resp	biratory or skin sens	itisation					
•	Skin sensitisation Not classified based on available information.						
•	Respiratory sensitisation Not classified based on available information.						
	Germ cell mutagenicity Not classified based on available information.						
	Carcinogenicity Not classified based on available information.						
-	Reproductive toxicity Not classified based on available information.						
	STOT - single exposure Not classified based on available information.						
	STOT - repeated exposure Not classified based on available information.						
•	Aspiration toxicity Not classified based on available information.						
SECTIO	N 12: Ecological in	formation					
12.1 Toxi	city						

Components:		
PhthalyIsulfathiazole:		
Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded
Sulfamerazine:		
Toxicity to fish	:	LC50 (Morone saxatilis (striped bass)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 227 mg/l Exposure time: 48 h
12.2 Persistence and degradability No data available	у	
12.3 Bioaccumulative potential		
Components:		
PhthalyIsulfathiazole:		



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Partition coefficient: n- octanol/water		:	log Pow: -2		
Sulfamerazine: Partition coefficient: n- octanol/water		:	log Pow: 0,728		
12.4 Mobility in soil No data available					
12.5 Resu	llts of PBT and vPvB a	sse	ssment		
<u>Prod</u>	uct:				
Asse	ssment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6 Other adverse effects					
Prod	uct:				
Endo tial	crine disrupting poten-	oten- : The substance/mixture does not contain components consid ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 a levels of 0.1% or higher.			

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good



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14.2 UN p	roper shipping name					
ADN		: Not regulated as a dangerous good				
ADR		: Not regulat	Not regulated as a dangerous good			
RID		: Not regulat	Not regulated as a dangerous good			
IMDG	6	: Not regulat	Not regulated as a dangerous good			
ΙΑΤΑ		: Not regulat	ed as a dangerous good			
14.3 Tran	sport hazard class(e					
ADN		: Not regulat	ed as a dangerous good			
ADR		: Not regulat	ed as a dangerous good			
RID		: Not regulat	ed as a dangerous good			
IMDG	6	: Not regulat	ed as a dangerous good			
ΙΑΤΑ		: Not regulat	ed as a dangerous good			
14.4 Pack	14.4 Packing group					
ADN		: Not regulat	ed as a dangerous good			
ADR		: Not regulat	ed as a dangerous good			
RID		: Not regulat	ed as a dangerous good			
IMDG	6	: Not regulat	ed as a dangerous good			
ΙΑΤΑ	(Cargo)	: Not regulat	ed as a dangerous good			
ΙΑΤΑ	(Passenger)	: Not regulat	ed as a dangerous good			
14.5 Environmental hazards						
Not re	egulated as a dangero	good				
-	ial precautions for u pplicable	r				
	•		Marpol and the IBC Code			
Rema	arks	: Not applica	ble for product as supplied.			

SECTION 15: Regulatory information

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

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



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15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information

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

Full text of other abbreviations

ZA OEL	:	South Africa. The Regulations for Hazardous Chemical	
		Agents, Occupational Exposure Limits	
ZA OEL / OEL-RL	:	Occupational Exposure Limit Restricted limit - 8- hour expo-	
		sure or equivalent (12 hour shifts)	

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

Further information

Sources of key data used to compile the 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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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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