

Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
6.1	28.09.2024	9372635-00011	Date of first issue: 27.08.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	:	Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation
Other means of identification	:	Tribrissen 48% (A005320)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	: Veterinary product	
Recommended restrictions on use	: Not applicable	
1.3 Details of the supplier of the	ie safety data sheet	
Company	· MSD	

Company	:	MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom
Telephone	:	+1-908-740-4000
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin corrosion, Sub-category 1A Serious eye damage, Category 1 Respiratory sensitisation, Category 1	H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Reproductive toxicity, Category 2 Specific target organ toxicity - single ex- posure, Category 3	H361d: Suspected of damaging the unborn child. H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2 Short-term (acute) aquatic hazard, Cate-	H373: May cause damage to organs through pro- longed or repeated exposure. H400: Very toxic to aquatic life.

UK REACH Regulations SI 2019/758



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Long-term (chronic) aquatic hazard, Category 1 H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H314 H334	Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breath- ing difficulties if inhaled.
		H335 H361d H373	May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged
		H410	or repeated exposure. Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH071	Corrosive to the respiratory tract.
Precautionary statements		Prevention	•
	•	110101101	I.
•	•	P273	Avoid release to the environment.
		P273	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		P273 P280 Response:	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
		P273 P280 Response: P303 + P36	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. 51 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor. 51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins-
		P273 P280 Response: P303 + P36	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. 51 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER/ doctor. 51 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rins- ing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label: sulfadiazine Trimethoprim Sodium hydroxide UK REACH Regulations SI 2019/758

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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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
sulfadiazine	68-35-9 200-685-8	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	40
Trimethoprim	738-70-5 212-006-2	Acute Tox. 4; H302 Repr. 2; H361d STOT RE 1; H372 (Bone marrow) Aquatic Chronic 2; H411	8
Sodium hydroxide	1310-73-2 215-185-5 011-002-00-6	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318 	5.5

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			0.5 - < 2 % EUH071 >= 2 %	
2,2'-lr	minodiethanol	111-42-2 203-868-0 603-071-00-	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361 STOT RE 2; H373 (Kidney, Blood, Liver, Nervous sys- tem)	0.6

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	:	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).
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. 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 NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.



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4.2 Most	important symptoms a	nd e	effects, both acute	e and delayed			
Risks			 Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficities if inhaled. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeatexposure. Causes severe burns. Corrosive to the respiratory tract. 				
			other respiratory	tract burns. ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac- unction syndrome).			
	•	meo		d special treatment needed			
Treat	tment	:	Treat symptomati	cally and supportively.			
SECTIO	N 5: Firefighting meas	sur	es				
5.1 Exting	guishing media						
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
Unsu medi	itable extinguishing a	:	None known.				
5.2 Speci	al hazards arising from	the	e substance or mi	xture			
Spec fighti		:	Exposure to com	oustion products may be a hazard to health.			
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides				
5.3 Advic	e for firefighters						
Spec	ial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.			
Spec ods	ific extinguishing meth-	:	cumstances and Use water spray f	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do			



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers).

Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environ-

ment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
		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		measures under EXPOSURE RSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation.	ation is unavailable, use with local exhaust
Advice on safe handling	Handle in accord	nist or vapours.

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Hygie	ene measures	 Already sensitito asthma, alle should consultory irritants of Do not eat, dri Take care to penvironment. If exposure to flushing system place. When unated clothing The effective of engineering conspropriate de industrial hygi 	er tightly closed. ised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, t their physician regarding working with respira- r sensitisers. nk or smoke when using this product. orevent spills, waste and minimize release to the chemical is likely during typical use, provide eye ms and safety showers close to the working using do not eat, drink or smoke. Wash contami- before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
7.2 Condi	tions for safe storage,	including any inc	ompatibilities
	irements for storage and containers	tightly closed.	rly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in ith the particular national regulations.
Advic	e on common storage	Strong oxidizi	substances and mixtures
7 3 Sneci	fic end use(s)		
-	ific use(s)	: No data availa	ble

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
sulfadiazine	68-35-9	TWA	2 mg/m3 (OEB 1)	Internal
Trimethoprim	738-70-5	TWA	400 µg/m3 (OEB 2)	Internal
Sodium hydroxide	1310-73-2	STEL	2 mg/m3	GB EH40

Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	

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5	Sodium hydroxide	Consumers	Inhalation	Long-term local ef- fects	1 mg/m3
		Workers	Inhalation	Long-term local ef- fects	1 mg/m3
2	2,2'-Iminodiethanol	Workers	Inhalation	Long-term systemic effects	0.75 mg/m3
		Workers	Inhalation	Long-term local ef- fects	0.5 mg/m3
		Workers	Skin conta	act Long-term systemic effects	0.13 mg/kg bw/day
		Consumers	Inhalation	Long-term systemic effects	0.125 mg/m3
		Consumers	Inhalation	Long-term local ef- fects	0.125 mg/m3
		Consumers	Skin conta	act Long-term systemic effects	0.07 mg/kg bw/day
		Consumers	Ingestion	Long-term systemic effects	0.06 mg/kg bw/day

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
sulfadiazine	Water	0.01 mg/l
Trimethoprim	Water	0.9 mg/l
2,2'-Iminodiethanol	Fresh water	0.021 mg/l
	Freshwater - intermittent	0.095 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.096 mg/kg dry weight (d.w.)
	Marine sediment	0.009 mg/kg dry weight (d.w.)
	Soil	1.63 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	1.04 mg/kg food

8.2 Exposure controls

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. Laboratory operations do not require special containment.

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		

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Ma	aterial	: Chemical-resi	stant gloves
	and body protection iratory protection	: If adequate loo sure assessm ommended gu	or laboratory coat. cal exhaust ventilation is not available or expo- ent demonstrates exposures outside the rec- idelines, use respiratory protection. ould conform to BS EN 143
Fil	ter type	: Particulates ty	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	suspension light yellow No data available No data available
рН	:	10.0 - 10.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	No data available Not applicable No data available
Decomposition temperature	:	No data available

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Viscosity Viscosity, kinematic Explosive properties		: No data available : Not explosive				
Oxidizing properties		: The substan	ce or mixture is not classified as oxidizing.			
9.2 Other information Flammability (liquids) Particle size		: No data avai : Not applicab				

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions				
Hazardous reactions	:	Can react with strong oxidizing agents.		
10.4 Conditions to avoid				
Conditions to avoid	:	None known.		

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
	Acids

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

: Acute toxicity estimate: > 2,000 mg/kg

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				Method: Calculation	on method
<u>(</u>	Components:				
:	sulfadiazine:				
	Acute oral toxicit	у	:	LD50 (Mouse): 1,5	500 mg/kg
	Acute dermal tox	kicity	:	LD50 (Rat): > 5,00 Remarks: Based o	00 mg/kg on data from similar materials
	Acute toxicity (ot administration)	her routes of	:	LD50 (Rat): 880 m Application Route:	
				LD50 (Mouse): 18 Application Route:	
-	Trimethoprim:				
	Acute oral toxicit	у	:	LD50 (Rat): 1,500	- 5,300 mg/kg
				LD50 (Mouse): 1,9	910 - 7,000 mg/kg
	Acute toxicity (ot administration)	her routes of	:	LD50 (Rat): 400 - Application Route:	
				LD50 (Dog): 90 m Application Route:	
				LD50 (Mouse): 13 Application Route:	
;	Sodium hydrox	ide:			
	Acute inhalation	toxicity	:	Assessment: Corr	osive to the respiratory tract.
	2,2'-Iminodietha	anol:			
	Acute oral toxicit		:	LD50 (Rat): 1,600	mg/kg
	Acute inhalation	toxicity	:	LC50 (Rat, male): Exposure time: 4 H Test atmosphere:	1
	Skin corrosion/ Causes severe b				
<u>(</u>	Components:				
:	sulfadiazine:				
	Result Remarks		:	Skin irritation Based on data from	m similar materials

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Sodi	um hydroxide:		
Resu	lt	: Corrosive a	fter 3 minutes or less of exposure
2,2'-l	minodiethanol:		
Spec Resu		: Rabbit : Skin irritatio	n
	ous eye damage/eye		
Caus	es serious eye damag	ge.	
Com	ponents:		
sulfa	diazine:		
Spec		: Rabbit	
Resu Rema			eyes, reversing within 7 days ata from similar materials
Sodiu	um hydroxide:		
Resu			effects on the eye
Rema	arks	: Based on s	kin corrosivity.
2,2'-l	minodiethanol:		
Spec		: Rabbit	
Resu	lt	: Irreversible	effects on the eye
Resp	iratory or skin sens	itisation	
Skin	sensitisation		
Not c	lassified based on av	ailable information.	
•	iratory sensitisation		
May o	cause allergy or asthr	na symptoms or bre	eathing difficulties if inhaled.
<u>Com</u>	ponents:		
sulfa	diazino:		

sulfadiazine:

Test Type :	Maximisation Test
Species :	Guinea pig
Result :	Not a skin sensitizer.
Remarks :	Based on data from similar materials

Trimethoprim:

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Not a skin sensitizer.
_ •		10

Sodium hydroxide:

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Test ⁻ Expos Resu	sure routes	: Human repe : Skin contact : negative	at insult patch test (HRIPT)				
2,2'-lı	minodiethanol:						
Expos Speci Metho	Test Type Exposure routes Species Method Result		Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative				
	cell mutagenicity lassified based on ava	ailable information.					
	ponents:						
sulfa	diazine:						
Geno	toxicity in vitro	Result: nega	Bacterial reverse mutation assay (AMES) ative ased on data from similar materials				
		Test system Result: nega	Chromosomal aberration : Chinese hamster ovary cells Itive ased on data from similar materials				
Trime	ethoprim:						
	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) Itive				
		Test Type: 0 Result: nega	Chromosomal aberration				
		Test Type: li Result: nega	n vitro mammalian cell gene mutation test tive				
			DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro) tive				
Geno	toxicity in vivo	: Test Type: N Species: Ra Result: nega					
		Test Type: 0 Species: Hu Result: nega					

2,2'-Iminodiethanol:

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Genotoxicity in vitro		: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: In Result: nega	vitro mammalian cell gene mutation test tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
		Test Type: In malian cells Result: nega	vitro sister chromatid exchange assay in mam-
Genotoxicity in vivo		cytogenetic a Species: Mor	use oute: Skin contact

Carcinogenicity

Not classified based on available information.

Components:

2,2'-Imino	diethanol:
2,2 -111110	ulethanoi.

Species Application Route Exposure time Result Remarks	Mouse Skin contact 103 weeks positive The mechanism or mode of action may not be relevant in hu- mans.
Species Application Route Exposure time Result	Rat Skin contact 103 weeks negative
Carcinogenicity - Assess-	Weight of evidence does not support classification as a car- cinogen

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

sulfadiazine:

Effects on foetal develop-	:	Test Type: Development
ment		Species: Mouse
		Application Route: Oral
		General Toxicity Maternal: NOAEL: 1,000 mg/kg body weight
		Result: Embryotoxic effects and adverse effects on the off-

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				spring were detec	cted only at high maternally toxic doses
	Trimeth Effects	oprim: on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	e: Oral 70 mg/kg body weight
	Effects on foetal develop- ment		:	Result: Effects or	e: Oral oxicity: LOAEL: 70 mg/kg body weight
				Result: Embryoto	e: Oral oxicity: LOAEL: 70 mg/kg body weight
				•	r
	Reprod sessme	uctive toxicity - As- nt	:	Suspected of dan	naging the unborn child.
	2,2'-Imi	nodiethanol:			
		on fertility	:	Species: Rat Application Route	eneration reproduction toxicity study e: Ingestion est Guideline 443

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	Effects on foetal develop- ment Reproductive toxicity - As- sessment		:	Test Type: One-g Species: Rat Application Route Method: OECD T Result: positive	
			:		f adverse effects on sexual function and development, based on animal experiments.
	STOT -	single exposure			
		use respiratory irritation ve to the respiratory tr			
	Compo	onents:			
	sulfadi	azine:			
	Assess	ment	:	May cause respire	atory irritation.
		· repeated exposure			
	May cause damage to organs t <u>Components:</u> Trimethoprim:		thro	ough prolonged or	repeated exposure.
	•	get Organs sessment		Bone marrow Causes damage t exposure.	o organs through prolonged or repeated
	2,2'-lm	inodiethanol:			
	Exposu	ire routes Organs	:	Shown to produce	ver, Nervous system e significant health effects in animals at con-) to 100 mg/kg bw.
		ire routes Organs ment	:		ist/fume) e significant health effects in animals at con- 02 to 0.2 mg/l/6h/d.
		ire routes Organs ment	 Skin contact Blood, Liver, Kidney Shown to produce significant health effects in animals at centrations of >20 to 200 mg/kg bw. 		significant health effects in animals at con-
	Repeat	ted dose toxicity			
	Compo	onents:			
		hoprim:			
	Specie	•	:	Rat	

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Expos	EL cation Route sure time et Organs es	 100 mg/kg 300 mg/kg Oral 6 Months Bone marrow, Liver, Pituitary gland, Thyro Rat 200 mg/kg 	vid
Applic Expos	cation Route sure time ot Organs	: 300 mg/kg : Oral : 3 Months : Bone marrow	
Expos	EL	 Dog 2.5 mg/kg 45 mg/kg Oral 3 Months Blood, Thyroid 	
Speci LOAE Applic		 Rat, female 14 mg/kg Ingestion 13 Weeks 	
	EL cation Route sure time	: Rat : 0.015 mg/l : inhalation (dust/mist/fume) : 90 Days : OECD Test Guideline 413	
		: Rat : 32 mg/kg : Skin contact : 13 Weeks	
-	ation toxicity lassified based on ava	able information.	
Expe	rience with human e	oosure	
Com	oonents:		
Gene	diazine: ral Information	: May cause eye, skin, and respiratory tract	irritation.
Trime Inges	e thoprim: tion	: Target Organs: Bone marrow Symptoms: Abdominal pain, Nausea, Vom Dizziness, Headache, mental depression,	

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SECTION 12: Ecological information

12.1 Toxicity

Components:		
sulfadiazine:		
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 (Anabaena flos-aquae): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae): 3.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.13 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC50 (Microcystis aeruginosa (blue-green algae)): 0.135 mg/l Exposure time: 7 Days Method: ISO 8692
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to microorganisms	:	EC50 : > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		NOEC : 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
Toxicity to daphnia and other	:	NOEC: 6.2 mg/l

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	aquatic invertebrates (Chron- ic toxicity)			Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	/I-Facto oxicity)	or (Chronic aquatic	:	1	
т	rimeth	noprim:			
Т	oxicity	to fish	:	LC50 (Pimephales promelas (fathead minnow)): 100 mg/l Exposure time: 96 h EC50 (Daphnia magna Straus): 92 mg/l Exposure time: 48 h	
		to daphnia and other invertebrates	:		
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (microalgae)): 80.3 2 h
				NOEC (Pseudokir mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 16 2 h
				EC50 (Anabaena Exposure time: 72	flos-aquae): 253 mg/l 2 h
				EC10 (Anabaena Exposure time: 72	flos-aquae): 26 mg/l 2 h
Т	oxicity	to microorganisms	:	EC10 : 16.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
				EC50 : > 1,000 m Exposure time: 3 Test Type: Respir Method: OECD Te	hrs ation inhibition
	oxicity city)	to fish (Chronic tox-	:	NOEC: 0.157 mg/ Exposure time: 21 Species: Zebrafis	d
а		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 6 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)
~)) Im:	nodiothonal			
		nodiethanol: to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 460 mg/l እ h
Т	oxicity	to daphnia and other	:	EC50 (Ceriodaph	nia dubia (water flea)): 30.1 mg/l

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	aquatic	invertebrates		Exposure time: 48	3 h	
	Toxicity plants	<i>r</i> to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 9.5 2 h	
				EC10 (Pseudokirchneriella subcapitata (green algae)): 1.1 mg/l Exposure time: 72 h		
	Toxicity to microorganisms		:	EC10 (activated s Exposure time: 30 Method: OECD T		
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	EC10: 1.05 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)		
12.2	Persis	tence and degradabil	ity			
	Compo	onents:				
	sulfadi					
	Biodeg	radability	:	Result: Not readil Biodegradation: (Exposure time: 28 Method: OECD T	0 % 3 d	
	Trimet	hoprim:				
	Biodeg	radability	:	Result: Not readily Biodegradation: Exposure time: 28 Method: OECD T	4 %	
				Biodegradation: (Exposure time: 28		
	2,2'-Im	inodiethanol:				
		radability	:	Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD T	93 %	
12.3	Bioaco	cumulative potential				

Components:

sulfadiazine:

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	: lo	g Pow: 0.12	
ion coefficient: n-	: lo	g Pow: 0.91	
ion coefficient: n-			est Guideline 107
•			
Its of PBT and vPvB a	ssessn	nent	
	to ve	be either persisery persistent ar	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
r adverse effects			
uct:			
crine disrupting poten-	er	ed to have end	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).
	28.09.2024 ion coefficient: n- ol/water ethoprim: ion coefficient: n- ol/water minodiethanol: ion coefficient: n- ol/water lity in soil ata available	28.09.2024 93726 ion coefficient: n- : lo ol/water : ion ethoprim: : ion ion coefficient: n- : lo ol/water : ion minodiethanol: : ion ion coefficient: n- : lo ol/water M M lity in soil ata available M lits of PBT and vPvB assessment : Th vet: : . ol. : Th too : . uct: : . crine disrupting poten- : Th	28.09.2024 9372635-00011 ion coefficient: n- : log Pow: 0.12 ol/water : log Pow: 0.91 ethoprim: : log Pow: 0.91 ion coefficient: n- : log Pow: 0.91 ol/water : log Pow: 0.91 minodiethanol: : log Pow: -2.46 ion coefficient: n- : log Pow: -2.46 ol/water : Method: OECD T lity in soil ata available . ata available : This substance/m uct: : : This substance/m ssment : This substance/m r adverse effects : This substance/m uct: : : crine disrupting poten- : This substance/m

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	:	UN 3267
ADR	:	UN 3267

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	RID			UN 3267	
	IMDG		:	UN 3267	
	ΙΑΤΑ		•	UN 3267	
14.2	UN pro	oper shipping name			
	ADN		:	CORROSIVE LIC (Sodium hydroxid	UID, BASIC, ORGANIC, N.O.S. e)
	ADR		:	CORROSIVE LIC (Sodium hydroxid	UID, BASIC, ORGANIC, N.O.S. e)
	RID		:	CORROSIVE LIC (Sodium hydroxid	UID, BASIC, ORGANIC, N.O.S. e)
	IMDG		:	CORROSIVE LIC (Sodium hydroxid	UID, BASIC, ORGANIC, N.O.S. e, sulfadiazine)
	ΙΑΤΑ		:	Corrosive liquid, k (Sodium hydroxid	pasic, organic, n.o.s. e)
14.3	Transp	port hazard class(es)			
				Class	Subsidiary risks
	ADN		:	8	,
	ADR		:	8	
	RID		:	8	
	IMDG		:	8	
	ΙΑΤΑ		:	8	
14.4	Packir	ng group			
	ADN Packing Classifi	g group ication Code I Identification Number	:	l C7 88 8	
	Classifi Hazard Labels	g group ication Code I Identification Number restriction code	:	l C7 88 8 (E)	
	Classifi	g group ication Code I Identification Number	:	l C7 88 8	
	Packing	g group	:	I	

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Labels EmS Code			: 8 : F-A, S-B		
	IATA (Cargo) Packing instruction (cargo aircraft) Packing group Labels IATA (Passenger) Packing instruction (passen- ger aircraft) Packing group Labels		: 854		
			: I : Corrosive		
			: 850		
			: I : Corrosive		
14.5	14.5 Environmental hazards				
	ADN Enviror	nmentally hazardous	: yes		
	ADR Enviror	nmentally hazardous	: yes		
	RID Enviror	nmentally hazardous	: yes		
	IMDG Marine	pollutant	: yes		
14.6 Special precautions for user					
The transport classification(s) provided herein are for informational purposes only, and solely					

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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)

: Conditions of restriction for the following entries should be considered: Number on list 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is appli-

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				cable to the placing on th	e market or
				not.	
	REACH Candidate list ern (SVHC) for Author	gh :	Not applicable		
		lutants Regulations (ret as amended for Great		Not applicable	
,	()	nces that deplete the oz	one :	Not applicable	
	REACH List of substan ex XIV)	ces subject to authorisa	ation :	Not applicable	
	Export and import of ha med Consent (PIC) Re	azardous chemicals - Pr egulation	ior :	Not applicable	
Control of Major Accident Hazards Regulations 2015 (CC				AH)	
E1		ENVIRONMEN HAZARDS	TAL	Quantity 1Quantity 1100 t200 t	ntity 2

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

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

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

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 H-Statements					
H290	:	May be corrosive to metals.			
H302	:	Harmful if swallowed.			
H314	:	Causes severe skin burns and eye damage.			
H315	:	Causes skin irritation.			
H318	:	Causes serious eye damage.			
H319	:	Causes serious eye irritation.			
H334	:	May cause allergy or asthma symptoms or breathing difficul-			

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H335 H361 H361d H372 H373 H400 H410 H411		 Suspected of Suspected of Causes dam exposure. May cause of exposure. Very toxic to Very toxic to 	respiratory irritation. of damaging fertility or the unborn child. of damaging the unborn child. hage to organs through prolonged or repeated damage to organs through prolonged or repeated o aquatic life. o aquatic life with long lasting effects.			
	vt of other abbreviati	: Toxic to aquatic life with long lasting effects.				
Full text of other abbreviation Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Eye Irrit. Met. Corr. Repr. Resp. Sens. Skin Corr. Skin Irrit. STOT RE STOT SE GB EH40 GB EH40 / STEL		 Acute toxicit Short-term (Long-term (Serious eye Eye irritation Corrosive to Reproductiv Respiratory Skin corrosis Skin irritation Specific targ Specific targ UK. EH40 W 	acute) aquatic hazard chronic) aquatic hazard damage metals e toxicity sensitisation on			

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 - (Quanti-

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tative) 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	eChem Portal search re	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Classification of the mixtur	e:	Classification procedure:	
Skin Corr. 1A	H314	Calculation method	
Eye Dam. 1	H318	Calculation method	
Resp. Sens. 1	H334	Calculation method	
Repr. 2	H361d	Calculation method	
STOT SE 3	H335	Calculation method	
STOT RE 2	H373	Calculation method	
Aquatic Acute 1	H400	Calculation method	
Aquatic Chronic 1	H410	Calculation method	

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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