

Version 3.3	Revision Date: 30.09.2023		OS Number: 48266-00011	Date of last issue: 04.04.2023 Date of first issue: 03.03.2021
SECTIO	N 1: Identification of	the	substance/mi	xture and of the company/undertaking
1.1 Prod	uct identifier			
Trac	le name	:	Sulfamethoxaz	ole / Trimethoprim Injection Formulation
1.2 Relev	vant identified uses of	the s	ubstance or mi	xture and uses advised against
	of the Sub- ce/Mixture	:	Veterinary prod	luct
Reco on u	ommended restrictions se	:	Not applicable	
1.3 Detai	is of the supplier of the	e saf	ety data sheet	
Corr	ipany	:	MSD 20 Spartan Roa 1619 Spartan,	
Tele	phone	:	+27119239300	

E-mail address of person	:	EHSDATASTEWARD@msd.com
responsible for the SDS		

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)

Skin corrosion, Sub-category 1B Serious eye damage, Category 1	H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
Specific target organ toxicity - single ex-	H335: May cause respiratory irritation.
posure, Category 3	
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1	
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazar	d pictograms			
Signal	word	: Dang	er	•
Hazar	d statements	H373	May cause d Suspected May cause ted exposure	evere skin burns and eye damage. e respiratory irritation. I of damaging the unborn child. e damage to organs through prolonged or e. to aquatic life with long lasting effects.
Preca	utionary statements	P201 P273 P280	Avoid rele	ecial instructions before use. ase to the environment. ective gloves/ protective clothing/ eye protec- m.
			onse:	
		imme show P305 with v sent a	diately all co er. Immediat + P351 + P3 vater for seve and easy to c ON CENTER	
Hazar	dous components whic	ch must be	listed on the	label:

Hazardous components which must be listed on the label: Ethanolamine Trimethoprim

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)
1,3-Dioxan-5-ol	4740-78-7 225-248-9	Eye Irrit. 2; H319	>= 70 - < 90
Sulfamethoxazole	723-46-6 211-963-3	Aquatic Acute 1; H400	>= 10 - < 20



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			Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10
Ethar	nolamine	141-43-5 205-483-3 603-030-00-4	Acute Tox. 4; H302 >= 5 - < 10 Acute Tox. 4; H332
Trime	ethoprim	738-70-5 212-006-2	Acute Tox. 4; H302 >= 3 - < 10 Repr. 2; H361d STOT RE 1; H372 (Bone marrow) Aquatic Chronic 2; H411

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.



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			Get medical atten	tion immediately.				
lf swa	llowed	:	If vomiting occurs Call a physician o Rinse mouth thore	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.				
4.2 Most i	mportant symptoms a	nd e	effects, both acute	e and delayed				
Risks		:	May cause damag exposure. Causes severe bu	atory irritation. haging the unborn child. ge to organs through prolonged or repeated urns.				
			Causes digestive	tract burns.				
	-	med		special treatment needed				
Treatr	ment	:	Treat symptomati	cally and supportively.				
Suitat	uishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical					
Unsui media	table extinguishing a	:	None known.					
5.2 Specia	al hazards arising from	n the	e substance or mi	xture				
Speci fightin	fic hazards during fire- g	:	Exposure to comb	pustion products may be a hazard to health.				
Hazar ucts	dous combustion prod-	:	Nitrogen oxides (I Sulphur oxides Carbon oxides	NOx)				
5.3 Advice	e for firefighters							
	al protective equipment efighters	:		e, wear self-contained breathing apparatus. tective equipment.				
Speci ods	fic extinguishing meth-	:	cumstances and t Use water spray t	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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	Evacua	area.		
6: Accidental rele	ase measur			
nal precautions, prot	ective equip	nt and emergency pro	cedures	
onal precautions	Follow	fe handling advice (see	section 7) and personal pro-	
onmental precautions	5			
onmental precautions	Prever Prever barrier Retain Local a	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 of barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.		
ds and material for c	ontainment a	l cleaning up		
ods for cleaning up	: Soak u For lar ment to be pun Clean bent. Local o posal o employ mine w Section	with inert absorbent mate spills, provide dyking or eep material from spread ed, store recovered materials remaining materials from national regulations may his material, as well as the in the cleanup of releas th regulations are applic 13 and 15 of this SDS pro-	other appropriate contain- ding. If dyked material can erial in appropriate container. In spill with suitable absor- apply to releases and dis- hose materials and items ses. You will need to deter- able. rovide information regarding	
	30.09.2023	30.09.2023 7848266-000 Evacuate I 6: Accidental release measures anal precautions, protective equipme anal precautions : Use person Follow sa tective eq anmental precautions : Avoid release prevent ful Prevent st barriers). Retain an Local auth cannot be ds and material for containment and bods for cleaning up : Soak up v For large ment to ke be pumpe Clean up bent. Local or m posal of th employed mine whic Sections	30.09.2023 7848266-00011 Date of first iss Evacuate area. Evacuate area. I 6: Accidental release measures nal precautions, protective equipment and emergency pro- onal precautions : Use personal protective equipment Follow safe handling advice (see tective equipment recommendation onmental precautions : Avoid release to the environment. Prevent further leakage or spillag Prevent spreading over a wide arr barriers). Retain and dispose of contaminat Local authorities should be advise cannot be contained. ds and material for containment and cleaning up ods for cleaning up : Soak up with inert absorbent mate For large spills, provide dyking or ment to keep material from spread be pumped, store recovered mate Clean up remaining materials from	

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment

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Sulfamethoxazole / Trimethoprim Injection Formulation

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Hygie	ene measures	 Already sensitive to asthma, alless should consult tory irritants or Do not eat, dr Take care to previronment. If exposure to flushing system place. When unated clothing The effective of engineering constrained appropriate de industrial hygi 	er tightly closed. tised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, t their physician regarding working with respira- r sensitisers. ink 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.	erly labelled containers. Store locked up. Keep Keep in a cool, well-ventilated place. Store in ith the particular national regulations.
Advid	ce on common storage	Strong oxidizi	substances and mixtures
-	f ic end use(s) ific use(s)	: No data availa	able

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
Sulfamethoxazole 723-46-6		TWA	OEB 2 (>= 100 < 1000 μg/m3)	Internal	
Ethanolamine	141-43-5	OEL-RL	6 ppm	ZA OEL	
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents				
		OEL- RL STEL/C	12 ppm	ZA OEL	
	Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents				
		TWA	1 ppm 2,5 mg/m3	2006/15/EC	
		STEL	3 ppm	2006/15/EC	



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				7,6 mg/m3		
	Trimethoprim	738-70-5	TWA	400 µg/m3 (OEB	2)	Internal

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

-				
Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Ethanolamine	Workers	Inhalation	Long-term local ef- fects	3,3 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Inhalation	Long-term local ef- fects	2 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,24 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,75 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Trimethoprim	Water	0,9 mg/l
Ethanolamine	Fresh water	0,085 mg/l
	Freshwater - intermittent	0,028 mg/l
	Marine water	0,0085 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0,434 mg/kg dry weight (d.w.)
	Marine sediment	0,0434 mg/kg dry weight (d.w.)
	Soil	0,0367 mg/kg dry weight (d.w.)

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 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-



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Filter type		ommended guidelines, use respiratory protection. : Combined particulates and organic vapour type (A-P)		
SECTION	N 9: Physical and c	hemical properties		

9.1 Information on basic physical and chemical properties

••••	Appearance Colour Odour Odour Threshold	:	liquid light yellow No data available No data available
	рН	:	9,5 - 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	:	1,050 - 1,230 g/cm³
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water		No data available Not applicable
	Auto-ignition temperature	:	No data available
	Decomposition temperature	:	No data available
	Viscosity Viscosity, kinematic	:	No data available
	Explosive properties	:	Not explosive
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.



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• • ••••	information mability (liquids)	: No data availa	ble					
Moleo	cular weight	: No data availa	: No data available					
Partic	cle size	: Not applicable						
SECTION	10. Stability and	reactivity						

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

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg

Eye contact

: Acute toxicity estimate: > 2.000 mg/kg Acute dermal toxicity



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			Method: Calculation	on method
<u>Com</u>	ponents:			
1,3-D	vioxan-5-ol:			
Acute	e oral toxicity	:	LD50 (Rat): > 5.00	00 mg/kg
Acute	e dermal toxicity	:	LD50 (Rat): > 2.00 Remarks: Based o	00 mg/kg on data from similar materials
Sulfa	methoxazole:			
Acute	e oral toxicity	:	LD50 (Mouse): 2.3	300 mg/kg
Etha	nolamine:			
Acute	e oral toxicity	:	LD50 (Rat): 1.089	mg/kg
Acute	e inhalation toxicity	:	Acute toxicity estir Exposure time: 4 I Test atmosphere: Method: Expert ju Remarks: Based o	h vapour
Acute	e dermal toxicity	:	LD50 (Rabbit, fem	nale): 1.018 mg/kg
Trim	ethoprim:			
	e oral toxicity	:	LD50 (Rat): 1.500	- 5.300 mg/kg
			LD50 (Mouse): 1.9	910 - 7.000 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 400 - Application Route	
			LD50 (Dog): 90 m Application Route	
			LD50 (Mouse): 13 Application Route	
	corrosion/irritation es severe burns.			
<u>Com</u>	ponents:			
1,3-D Spec Meth Resu Rema	od It		Rabbit OECD Test Guide No skin irritation Based on data fro	eline 404 m similar materials
		•		

Sulfamethoxazole:



rsion B	Revision Date: 30.09.2023	SDS Number:Date of last issue: 04.04.20237848266-00011Date of first issue: 03.03.2021	
Speci		: Rabbit	
Resul	lt	: No skin irritation	
Ethar	nolamine:		
Speci Resul		RabbitCorrosive after 3 minutes to 1 hour of exposure	
	us eye damage/eye i es serious eye damag		
Com	oonents:		
1,3-D	ioxan-5-ol:		
Speci		: Rabbit	
Metho Resul		: OECD Test Guideline 405 : Irritation to eyes, reversing within 21 days	
Rema		: Based on data from similar materials	
Ethar	nolamine:		
Speci Resul		: Rabbit	
		: Irreversible effects on the eye	
-	iratory or skin sensi	isation	
-	sensitisation lassified based on ava	ilable information	
	iratory sensitisation		
-	lassified based on ava	ilable information.	
<u>Com</u>	oonents:		
1,3-D	ioxan-5-ol:		
Test		: Maximisation Test	
Expos Speci	sure routes	: Skin contact : Guinea pig	
Metho		: OECD Test Guideline 406	
Resu		: negative	
Rema	arks	: Based on data from similar materials	
Sulfa	methoxazole:		
Test		: Magnusson-Kligman-Test	
Expos Speci	sure routes	: Skin contact : Guinea pig	
Resul	63	: negative	
11000	lt	-	
	nolamine:		
	nolamine:	: Maximisation Test	
Ethar Test ⊺	nolamine: Type sure routes	: Maximisation Test : Skin contact : Guinea pig	



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Resu	lt	: negative	
Test	sure routes ies	: Maximisation : Dermal : Guinea pig : Not a skin se	
	cell mutagenicity lassified based on av	ailable information.	
Com	ponents:		
	ioxan-5-ol: toxicity 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
Geno	toxicity in vivo	cytogenetic a Species: Mou Result: nega	JSE
Sulfa	methoxazole:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
Geno	toxicity in vivo	,	
Ethai	nolamine:		
Geno	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
			n vitro mammalian cell gene mutation test CD Test Guideline 476 tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
Geno	toxicity in vivo	: Test Type: M cytogenetic a	lammalian erythrocyte micronucleus test (in vivo assay)



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			Species: Mouse Application Route Method: OECD T Result: negative	e: Ingestion est Guideline 474
Trime	ethoprim:			
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Result: negative	nosomal aberration
			Test Type: In vitro Result: negative	o mammalian cell gene mutation test
			Test Type: DNA o thesis in mamma Result: negative	damage and repair, unscheduled DNA syn- lian cells (in vitro)
Geno	toxicity in vivo	:	Test Type: Micror Species: Rat Result: negative	nucleus test
			Test Type: Chron Species: Humans Result: negative	nosomal aberration
	nogenicity assified based on avail	able	information.	
<u>Com</u>	oonents:			
Speci Applic	cation Route sure time	:	Mouse Ingestion 26 weeks negative	
D				
-	oductive toxicity acted of damaging the u	unbc	orn child.	
	oonents:			
Ethar	nolamine:			
Effect	s on fertility	:	Species: Rat Application Route Method: OECD T Result: negative	eneration reproduction toxicity study e: Ingestion est Guideline 416 on data from similar materials
Effect	s on foetal develop-	:	Test Type: Embry	vo-foetal development

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men	t		Species: Rat Application Route Method: OECD To Result: negative	
Trim	ethoprim:			
	cts on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 70 mg/kg body weight
Effec men	cts on foetal develop- t	:	Species: Rat Application Route Developmental To Result: Effects on	: Oral pxicity: LOAEL: 70 mg/kg body weight
			Result: Embryoto:	: Oral pxicity: LOAEL: 70 mg/kg body weight
				r
	roductive toxicity - As-	:	Suspected of dam	naging the unborn child.
	T - single exposure cause respiratory irritation	on.		
Com	ponents:			
	inolamine:			
Asse	essment	:	May cause respire	atory infitation.



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May		s through prolonged or repeated exposure.	
	ponents:		
	nolamine: essment	: No significant health effects observed in animals at conce tions of 0.2 mg/l/6h/d or less.	ntra-
Trim	ethoprim:		
	et Organs essment	 Bone marrow Causes damage to organs through prolonged or repeated exposure. 	
Repe	eated dose toxicity		
Com	ponents:		
Etha	nolamine:		
	EL ication Route osure time	 Rat > 120 mg/kg Ingestion > 75 Days Based on data from similar materials 	
	EL ication Route osure time	 Rat >= 0,15 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412 	
Trim	ethoprim:		
Expo	EL	 Rat 100 mg/kg 300 mg/kg Oral 6 Months Bone marrow, Liver, Pituitary gland, Thyroid 	
Expo		: Rat : 300 mg/kg : Oral : 3 Months : Bone marrow	
Expo	EL	 Dog 2,5 mg/kg 45 mg/kg Oral 3 Months Blood, Thyroid 	



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:

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Trimethoprim:

Ingestion

Target Organs: Bone marrow Symptoms: Abdominal pain, Nausea, Vomiting, skin rash, Dizziness, Headache, mental depression, confusion

SECTION 12: Ecological information

12.1 Toxicity

Components:

1,3-Dioxan-5-ol:		
Toxicity to fish	:	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
		NOELR (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
Toxicity to microorganisms	:	EC10 : > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Sulfamethoxazole:		
Toxicity to fish	:	LC50 (Oryzias latipes (Japanese medaka)): 562,5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 0,21 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Synechococcus leopoliensis (blue-green algae)): 0,0268 mg/l Exposure time: 96 h
		10/04



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				NOEC (Synechoc 0,0059 mg/l Exposure time: 96	occus leopoliensis (blue-green algae)): Sh
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	to microorganisms	:	NOEC (activated a Method: OECD Te	sludge): 3,76 mg/l est Guideline 301D
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0,533 mg/ Exposure time: 21 Species: Danio re	d
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,01 mg/l Exposure time: 30 Species: Daphnia) d magna (Water flea)
	M-Factor toxicity)	or (Chronic aquatic	:	10	
	Ethano	lamine:			
	Toxicity	v to fish	:	Exposure time: 96	arpio (Carp)): 349 mg/l 5 h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): 65 mg/l 3 h 67/548/EEC, Annex V, C.2.
	Toxicity plants	v to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC10 (Pseudomo Exposure time: 30 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 1,24 mg/l Exposure time: 41 Species: Oryzias Method: OECD Te	latipes (Orange-red killifish)
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,85 mg/l Exposure time: 21 Species: Daphnia	d magna (Water flea)



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	Trimet	hoprim:			
	Toxicity	•	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 100 mg/l 5 h
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	hagna Straus): 92 mg/l 3 h
	Toxicity plants	∕ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (microalgae)): 80,3 2 h
				NOEC (Pseudokin 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
	Toxicity	to microorganisms	:	EC10 : 16,7 mg/l Exposure time: 3 Test Type: Respin Method: OECD T	ation inhibition
				EC50 : > 1.000 m Exposure time: 3 Test Type: Respir Method: OECD T	hrs ration inhibition
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC: 0,157 mg/ Exposure time: 2 ⁻ Species: Zebrafis	ld
		v to daphnia and other invertebrates (Chron- ity)	:	NOEC: 6 mg/l Exposure time: 2′ Species: Daphnia	l d magna (Water flea)
12.2	2 Persist	tence and degradabil	ity		
	Compo	onents:			
	1,3-Dio	oxan-5-ol:			
		radability	:	Result: Inherently Remarks: Based	biodegradable. on data from similar materials
		ethoxazole: radability	:	Result: Not readil Biodegradation: 0 Exposure time: 28 Method: OECD T	0 %



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		blamine: radability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD T	> 90 %
		hoprim: radability	:	Biodegradation: Exposure time: 2 Method: OECD T Result: Not inher Biodegradation: Exposure time: 2	8 d ^T est Guideline 301D ently biodegradable. 0 %
12.3 B	Bioaco	cumulative potential			
<u>C</u>	ompo	onents:			
P	artitio	xan-5-ol: n coefficient: n- //water	:	log Pow: -0,65	
		nethoxazole: umulation	:	Species: Cyprinu Bioconcentration	is carpio (Carp) factor (BCF): < 120
		n coefficient: n- /water	:	log Pow: 0,89	
P	artitio	b lamine: n coefficient: n- //water	:	- 3 - 7-	est Guideline 107
P	artitio	hoprim: n coefficient: n- /water	:	log Pow: 0,91	
		t y in soil a available			
12.5 R	Result	s of PBT and vPvB a	asse	ssment	
	roduc				
A	SSESS	ment	:	to be either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of



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12.6 Other adverse effects

Product:

Endocrine disrupting poten- tial	:	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 at levels of 0.1% or higher.
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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	:	UN 2491		
ADR	:	UN 2491		
RID	:	UN 2491		
IMDG	:	UN 2491		
ΙΑΤΑ	:	UN 2491		
14.2 UN proper shipping name				
ADN	:	ETHANOLAMINE, SO	OLUTION	
ADR	:	ETHANOLAMINE, SO	OLUTION	
RID	:	ETHANOLAMINE, SO	OLUTION	
IMDG	:	ETHANOLAMINE SC (Sulfamethoxazole)	DLUTION	
ΙΑΤΑ	:	Ethanolamine solution		
14.3 Transport hazard class(es)				
		Class	Subsidiary risks	
ADN	:	8		
ADR	:	8		
RID	:	8		



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	IMDG			8	
	IATA		:	8	
14.4	Packin	ig group			
	ADN				
	Packing	g group	:	III	
		cation Code Identification Number	:	C7 80	
	Labels	Identification Number	:	8	
	ADR		•	•	
		g group	:	III	
	Classifi	cation Code	:	C7	
		Identification Number	:	80 8	
	Labels Tunnel	restriction code	:	о (Е)	
	RID		-	(-)	
		g group	:	III	
	Classifi	cation Code	:	C7	
		Identification Number	:	80	
	Labels		•	8	
	IMDG Packing	g group		111	
	Labels	g group	÷	8	
	EmS C	ode	:	F-A, S-B	
	IATA (Packing aircraft	g instruction (cargo	:	856	
		, g instruction (LQ)	:	Y841	
		g group	:		
	Labels		:	Corrosive	
		Passenger) g instruction (passen-	:	852	
	ger airc	craft)			
		g instruction (LQ) g group	:	Y841 III	
	Labels	g group	÷	Corrosive	
		nmental hazards			
	ADN				
		mentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	
	RID Enviror	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	



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14.6 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.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

CTION 16: Other info	rmation
Other information	: Items where changes have been made to the previous versior are highlighted in the body of this document by two vertical lines.
Full text of H-Stateme	nts
H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H361d	: Suspected of damaging the unborn child.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.
Full text of other abbr	eviations
Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage



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			Eye irritation	· •	
Repr. Skin (Corr	: Reproductive toxicity			
SKIII C		: Skin corrosion			
STOT		 Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure 			
	15/EC	: Europe. Indicative occupational exposure limit values			
ZA OI		: South Africa. The Regulations for Hazardous Chemic		Regulations for Hazardous Chemical	
2000			U	onal Exposure Limits	
	15/EC / TWA	: Limit Value - eight hours			
	15/EC / STEL	:	: Short term exposure limit		
ZA OI	EL / OEL-RL		: Occupational Exposure Limit Restricted limit - 8- hour expo- sure or equivalent (12 hour shifts)		
ZA OI	EL / OEL- RL STEL/C	:	 Occupational Exposure Limit Restricted limit - Short term oc- cupational exposure limits / ceiling limits 		

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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Class	sification of the mixt	Classification procedure:	
Skin (Corr. 1B	H314	Calculation method
Eye D	Dam. 1	H318	Calculation method
Repr.	2	H361d	Calculation method
STOT	SE 3	H335	Calculation method
STOT	RE 2	H373	Calculation method
Aquat	tic Acute 1	H400	Calculation method
Aquat	tic 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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