

### Sulfamethoxazole / Trimethoprim Injection Formulation

Version 3.0	Revision Date: 06.04.2024	SDS Number: 7848268-00010	Date of last issue: 30.09.2023 Date of first issue: 03.03.2021	
Section 1	dontification			
Section 1: Identification				

Product identifier :	Sulfamethoxazole / Trimethoprim Injection Formulation						
Recommended use of the chen	Recommended use of the chemical and restrictions on use						
Recommended use : Restrictions on use :	Veterinary product Not applicable						
Manufacturer or supplier's deta	ills						
Company :	MSD						
Address :	50 Tuas West Drive Singapore - Singapore 638408						
Telephone :	+1-908-740-4000						
Emergency telephone number :	65 6697 2111 (24/7/365)						
E-mail address :	EHSDATASTEWARD@msd.com						

#### Section 2: Hazard identification

#### Classification of the substance or mixture

Skin corrosion/irritation	:	Category 1
Serious eye damage/eye irri- tation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Bone marrow)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1

#### GHS Label elements, including precautionary statements



ersion .0	Revision Date: 06.04.2024	SDS Number: 7848268-00010	Date of last issue: 30.09.2023 Date of first issue: 03.03.2021
Haza	rd pictograms		
Signa	l word	: Danger	• • •
Haza	rd statements	H335 May cau H361d Suspec H373 May cau prolonged or re	severe skin burns and eye damage. Ise respiratory irritation. Ised of damaging the unborn child. Ise damage to organs (Bone marrow) through epeated exposure. Is to aquatic life with long lasting effects.
THECS	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P271 Use only P273 Avoid re P280 Wear pro	pecial instructions before use. andle until all safety precautions have been re d. reathe mist or vapours. tin thoroughly after handling. y outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protected.
		Do NOT induc CENTER/ doc P303 + P361 - immediately al shower. Imme P304 + P340 - and keep com POISON CEN P305 + P351 - water for seve and easy to do CENTER/ doc P308 + P313 I attention.	<ul> <li>P353 + P310 IF ON SKIN (or hair): Take off</li> <li>I contaminated clothing. Rinse skin with water</li> <li>diately call a POISON CENTER/ doctor.</li> <li>P310 IF INHALED: Remove person to fresh a fortable for breathing. Immediately call a TER/ doctor.</li> <li>P338 + P310 IF IN EYES: Rinse cautiously v ral minutes. Remove contact lenses, if present b. Continue rinsing. Immediately call a POISON tor.</li> <li>F exposed or concerned: Get medical advice/</li> <li>ontaminated clothing before reuse.</li> </ul>
		<b>Storage:</b> P405 Store loc	
		Disposal:	of contents/ container to an approved waste



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#### Other hazards which do not result in classification None known.

#### Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Dioxan-5-ol	4740-78-7	>= 70 -< 90
Sulfamethoxazole	723-46-6	>= 10 -< 20
Ethanolamine	141-43-5	>= 5 -< 10
Trimethoprim	738-70-5	>= 3 -< 10

#### Section 4: First-aid measures

Description of necessary first-aid measures						
General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>					
If inhaled	<ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention immediately.</li> </ul>					
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Get medical attention immediately.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>					
In case of eye contact	<ul> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention immediately.</li> </ul>					
If swallowed	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>If vomiting occurs have person lean forward.</li> <li>Call a physician or poison control centre immediately.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>					
Most important symptoms ar	d effects, both acute and delayed					
Risks	<ul> <li>Causes serious eye damage.</li> <li>May cause respiratory irritation.</li> <li>Suspected of damaging the unborn child.</li> <li>May cause damage to organs through prolonged or repeated exposure.</li> <li>Causes severe burns.</li> <li>Causes digestive tract burns.</li> </ul>					



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Prot	ection of first-aiders	:	and use the recor	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).
Indi	cation of any immediate	me	dical attention an	d special treatment needed
Trea	atment	:	Treat symptomati	cally and supportively.
Section	5: Fire-fighting measure	S		
Extir	nguishing media			
Suit	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Uns med	uitable extinguishing lia	:	None known.	
Spe	cial hazards arising fror	n th	e substance or m	ixture
Spe fight	cific hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
Haz ucts	ardous combustion prod-	:	Nitrogen oxides (I Sulphur oxides Carbon oxides	NOX)
Spe	cial protective actions f	or fi	ire-fighters	
for f	cial protective equipment irefighters cific extinguishing meth-	:	Use personal prof Use extinguishing cumstances and t Use water spray t	e, wear self-contained breathing apparatus. ective equipment. measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to de
Section	6: Accidental release mo	eas	ures	
	I precautions, protective sonal precautions	e eq :	Use personal prot Follow safe handl	

#### **Environmental precautions**

Environmental precautions	<ul> <li>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. Local authorities should be advised if significant spillages cannot be contained.</li> </ul>
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#### Methods and materials 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.

#### Section 7: Handling and storage

#### 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 Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respira- tory irritants or sensitisers. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the				
		environment.				
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.				
		When using do not eat, drink or smoke.				
		Wash contaminated clothing before re-use.				
		The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.				
Conditions for safe storage, including any incompatibilities						
Conditions for sofe storage		Kaap in properly labelled containers				

#### Conditions for safe storage : Keep in properly labelled containers.



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Materi	als to avoid	Store in accorda : Do not store with	eed. well-ventilated place. ance with the particular national regulations. h the following product types: ostances and mixtures es

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sulfamethoxazole	723-46-6	TWA	OEB 2 (>= 100 < 1000 μg/m3)	Internal
Ethanolamine	141-43-5	PEL (long term)	3 ppm 7.5 mg/m3	SG OEL
		PEL (short term)	6 ppm 15 mg/m3	SG OEL
		TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
Trimethoprim	738-70-5	TWA	400 μg/m3 (OEB 2)	Internal

Appropriate engineering : control 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.
Individual protection measures	s, such as personal protective equipment (PPE)
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.
Skin 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.



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Hand	Filter type Hand protection Material		Combined particu	ulates and organic vapour type nt gloves		
Section 9	: Physical and chemica	al pr	operties			
Арре	arance	:	liquid			
Colou	ır	:	light yellow			
Odou	ır	:	No data availabl	e		
Odou	ır Threshold	:	No data availabl	e		
рН		:	9.5 - 10.5			
Meltir	ng point/freezing point	:	No data availabl	e		
Initial range	boiling point and boiling	:	No data availabl	e		
Flash	n point	:	No data availabl	e		
Evap	oration rate	:	No data availabl	e		
Flam	mability (solid, gas)	:	Not applicable			
Flam	mability (liquids)	:	No data availabl	e		
	er explosion limit / Upper nability limit	:	No data availabl	e		
	er explosion limit / Lower nability limit	:	No data availabl	e		
Vapo	ur pressure	:	No data availabl	e		
Relat	ive vapour density	:	No data availabl	e		
Relat	ive density	:	No data availabl	e		
Dens	ity	:	1.050 - 1.230 g/d	cm <sup>3</sup>		
	bility(ies) /ater solubility	:	No data availabl	e		
	ion coefficient: n-	:	Not applicable			
	ol/water ignition temperature	:	No data availabl	e		



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Deco	mposition temperature	:	No data available	e
Visco V	osity iscosity, kinematic	:	No data available	e
Explo	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	cular weight	:	No data available	e

Particle characteristics Particle size	:	Not applicable

#### Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	::	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents Acids
Hazardous decomposition products	:	No hazardous decomposition products are known.

#### Section 11: Toxicological information

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 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 Method: Calculation method



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<u>Co</u>	mponents:			
1,3	B-Dioxan-5-ol:			
Ac	ute oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Ac	ute dermal toxicity	:	LD50 (Rat): > 2,00 Remarks: Based o	00 mg/kg on data from similar materials
Su	lfamethoxazole:			
Ac	ute oral toxicity	:	LD50 (Mouse): 2,3	300 mg/kg
Etł	nanolamine:			
Ac	ute oral toxicity	:	LD50 (Rat): 1,089	mg/kg
Ac	ute inhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based of	h vapour
Ac	ute dermal toxicity	:	LD50 (Rabbit, fem	nale): 1,018 mg/kg
n Tri	methoprim:			
	ute oral toxicity	:	LD50 (Rat): 1,500	- 5,300 mg/kg
			LD50 (Mouse): 1,9	910 - 7,000 mg/kg
	ute toxicity (other routes of ministration)	:	LD50 (Rat): 400 - Application Route	
			LD50 (Dog): 90 m Application Route	
			LD50 (Mouse): 13 Application Route	
-	in corrosion/irritation uses severe burns.			
<u>Co</u>	mponents:			
1,3	B-Dioxan-5-ol:			
Me Re	ecies ethod sult marks	: : :	Rabbit OECD Test Guide No skin irritation Based on data fro	eline 404 m similar materials

#### Sulfamethoxazole:



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Speci		:	Rabbit	
Resu		:	No skin irritation	
Ethar Speci	nolamine:		Rabbit	
Resu		:		minutes to 1 hour of exposure
	us eye damage/eye iı		on	
	es serious eye damage	Э.		
-	oonents:			
1,3-D Speci	ioxan-5-ol:		Rabbit	
Resu		:	Irritation to eyes,	reversing within 21 days
Metho Rema		:	OECD Test Guid Based on data fr	eline 405 om similar materials
		•		
Ethar	nolamine:			
Speci Resu		:	Rabbit Irreversible effec	ts on the eye
Resp	iratory or skin sensit	isatio	on	
-	sensitisation lassified based on avai	lable	information.	
	iratory sensitisation			
-	lassified based on avai	lable	information.	
<u>Com</u>	oonents:			
1,3-D	ioxan-5-ol:			
Test		:	Maximisation Te	st
Expos	sure routes es	:	Skin contact Guinea pig	
Metho	bd	:	OECD Test Guid	eline 406
Resu Rema		:	negative Based on data fr	om similar materials
Sulfa	methoxazole:			
Test	Гуре	:	Magnusson-Kligr	nan-Test
Expos Speci	sure routes	:	Skin contact Guinea pig	
Resu	lt	:	negative	

#### Ethanolamine:

Test Type

: Maximisation Test



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Expos Speci Resu		: (	Skin contact Guinea pig negative			
Trime	ethoprim:					
Test	Гуре sure routes es	: [ : (	Maximisation T Dermal Guinea pig Not a skin sens			
	<b>cell mutagenicity</b> lassified based on av	ailable ir	formation.			
<u>Com</u>	oonents:					
1,3-D	ioxan-5-ol:					
Geno	toxicity in vitro		Fest Type: Bac Result: negativ	terial reverse mutation assay (AMES) e		
			Fest Type: In v Result: negativ	itro mammalian cell gene mutation test e		
Geno	toxicity in vivo		cytogenetic ass Species: Mous Result: negativ	e		
II Sulfa	methoxazole:					
	toxicity in vitro		Fest Type: Bac Result: negativ	terial reverse mutation assay (AMES) e		
			Fest Type: Chr Result: negativ	omosome aberration test in vitro e		
Geno	toxicity in vivo	0	: Test Type: Mutagenicity (in vivo mammalian bone-mar cytogenetic test, chromosomal analysis) Species: Humans Result: negative			
Ethar	nolamine:					
Geno	toxicity in vitro		Fest Type: Bac Result: negativ	terial reverse mutation assay (AMES) e		
		ſ		itro mammalian cell gene mutation test Test Guideline 476		



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		Result: neg	
Genc	otoxicity in vivo	cytogenetic Species: M Application	ouse Route: Ingestion ECD Test Guideline 474
Trim	ethoprim:		
Geno	otoxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	Chromosomal aberration ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) jative
Genc	otoxicity in vivo	: Test Type: Species: R Result: neg	
		Test Type: Species: H Result: neç	
Carc	inogenicity lassified based on avai	lable information.	
Com	ponents:		
Sulfa	methoxazole:		
	cation Route sure time	: Mouse : Ingestion : 26 weeks : negative	

#### **Reproductive toxicity**

Suspected of damaging the unborn child.

#### **Components:**

#### Ethanolamine:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study



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Effec	ts on foetal develop-	Method: OEC Result: negati Remarks: Bas	oute: Ingestion D Test Guideline 416 ve sed on data from similar materials nbryo-foetal development
ment		Application Ro	oute: Ingestion D Test Guideline 414 ve
	<b>ethoprim:</b> its on fertility	: Test Type: Fe	rtility
Liice		Species: Rat Application Ro Fertility: NOA	
Effec ment	ts on foetal develop-	Result: Effects	oute: Oral al Toxicity: LOAEL: 70 mg/kg body weight
		Result: Embry	
			ster
			pit



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Repro	oductive toxicity - As-	: Suspected of	damaging the unborn child.
sessn	•	·	5 5
STOT	F - single exposure		
May o	cause respiratory irritat	tion.	
<u>Comp</u>	ponents:		
Ethar	nolamine:		
Asses	ssment	: May cause res	spiratory irritation.
	- repeated exposure		
		ns (Bone marrow) thr	ough prolonged or repeated exposure.
Com	ponents:		
Ethar	nolamine:		
Asses	ssment		health effects observed in animals at concentr
11			g/l/6h/d or less.
Trime	ethoprim:		
	et Organs	: Bone marrow	
	ssment		ge to organs through prolonged or repeated
11		exposure.	
Repe	ated dose toxicity		
	-		
Com	ponents:		
	nolamine:		
Speci NOAE		: Rat : > 120 mg/kg	
	cation Route	: Ingestion	
	sure time	: > 75 Days	
Rema	arks	: Based on data	a from similar materials
Speci	ies	: Rat	
NOAE		: >= 0.15 mg/l	
	cation Route sure time	: inhalation (due	st/mist/tume)
Metho		: 28 Days : OECD Test G	uideline 412
	ethoprim:		
Trime		: Rat	
Speci			
Speci NOAE	ΞL	: 100 mg/kg	
Speci NOAE LOAE	ΞL		



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Targe	et Organs	: Bone marrow, L	iver, Pituitary gland, Thyroid
	_	_	

Species	: Rat
LOAEL	: 300 mg/kg
Application Route	: Oral
Exposure time	: 3 Months
Target Organs	: Bone marrow
Species	: Dog
NOAEL	: 2.5 mg/kg

NOAEL LOAEL	:	2.5 mg/kg
LOAEL	:	45 mg/kg
Application Route	:	Oral
Exposure time	:	3 Months
Target Organs	:	Blood, Thyroid

#### 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

#### 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



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Toxic	ity to microorganisms	:		
Sulfa	methoxazole:			
Toxic	ity to fish	:	LC50 (Oryzias la Exposure time: 9	atipes (Japanese medaka)): 562.5 mg/l 96 h
	ity to daphnia and other tic invertebrates	:	EC50 (Ceriodap Exposure time: 4	hnia dubia (water flea)): 0.21 mg/l 48 h
Toxic plants	ity to algae/aquatic	:	EC50 (Synecho 0.0268 mg/l Exposure time: 9	coccus leopoliensis (blue-green algae)): 96 h
			NOEC (Synecho 0.0059 mg/l Exposure time: 9	ococcus leopoliensis (blue-green algae)): 96 h
	ctor (Acute aquatic tox-	:	10	
icity) Toxic icity)	ity to fish (Chronic tox-	:	NOEC (Danio re Exposure time: 2	erio (zebra fish)): 0.533 mg/l 21 d
	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 3	i magna (Water flea)): 0.01 mg/l 30 d
M-Fa	ctor (Chronic aquatic	:	10	
toxici Toxic	ity to microorganisms	:		d sludge): 3.76 mg/l Test Guideline 301D
Ethar	nolamine:			
Toxic	ity to fish	:	Exposure time:	carpio (Carp)): 349 mg/l 96 h ⁄e 67/548/EEC, Annex V, C.1.
	ity to daphnia and other tic invertebrates	:	Exposure time:	magna (Water flea)): 65 mg/l 48 h ⁄e 67/548/EEC, Annex V, C.2.
Toxic plants	ity to algae/aquatic S	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): 2.8 72 h Test Guideline 201
			NOEC (Pseudol	kirchneriella subcapitata (green algae)): 1 m



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			Exposure time: 7 Method: OECD T	2 h Test Guideline 201
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 4	atipes (Orange-red killifish)): 1.24 mg/l 1 d <sup>-</sup> est Guideline 210
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 0.85 mg/l 1 d
ic toxi Toxici	city) ty to microorganisms	:	Exposure time: 3	onas putida): > 1,000 mg/l 0 min ēst Guideline 209
Trime	ethoprim:			
	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 100 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna Straus): 92 mg/l 8 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokir mg/l Exposure time: 7	chneriella subcapitata (microalgae)): 80.3 2 h
			NOEC (Pseudoki mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 16 2 h
			EC50 (Anabaena Exposure time: 7	ı flos-aquae): 253 mg/l 2 h
			EC10 (Anabaena Exposure time: 7	ı flos-aquae): 26 mg/l 2 h
Toxici icity)	ty to fish (Chronic tox-	:	NOEC (Zebrafish Exposure time: 2	
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): 6 mg/l 1 d
	ity to microorganisms	:	EC10: 16.7 mg/l Exposure time: 3 Test Type: Respi Method: OECD T	
			EC50: > 1,000 m Exposure time: 3 Test Type: Respi Method: OECD T	hrs



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Persistence and degradabil	ity	
Components:		
1,3-Dioxan-5-ol:		
Biodegradability	:	Result: Inherently biodegradable. Remarks: Based on data from similar materials
Sulfamethoxazole:		
Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301D
Ethanolamine:		
Biodegradability	:	Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 21 d Method: OECD Test Guideline 301A
Trimethoprim:		
Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 4 % Exposure time: 28 d Method: OECD Test Guideline 301D
		Result: Not inherently biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302B
Bioaccumulative potential		
Components:		
1,3-Dioxan-5-ol:		
Partition coefficient: n- octanol/water	:	log Pow: -0.65
Sulfamethoxazole:		
Bioaccumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): < 120
Partition coefficient: n- octanol/water	:	log Pow: 0.89
Ethanolamine:		



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	on coefficient: n- bl/water	: log Pow: -2.3 Method: OECI	D Test Guideline 107	
Trimethoprim: Partition coefficient: n- octanol/water		: log Pow: 0.91		
	<b>ity in soil</b> ta available			
	adverse effects ta available			

Section 13: Disposal considerations

: Do not dispose of waste into sewer.
Dispose of in accordance with local regulations.
: 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

#### International Regulations

UNRTDG UN number UN proper shipping name Transport hazard class(es) Packing group Labels Environmental hazards	:	UN 2491 ETHANOLAMINE SOLUTION 8 III 8 no
IATA-DGR UN/ID No. UN proper shipping name Transport hazard class(es) Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)		UN 2491 Ethanolamine solution 8 III Corrosive 856 852
IMDG-Code UN number Proper shipping name Transport hazard class(es) Packing group	:	UN 2491 ETHANOLAMINE SOLUTION (Sulfamethoxazole) 8 III



## Sulfamethoxazole / Trimethoprim Injection Formulation

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Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	yes

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

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

#### Section 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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

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

#### Section 16: Other information

Revision Date	:	06.04.2024	
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 Agen- cy, http://echa.europa.eu/	
Itoms where changes have been made to the provinus version are highlighted in the bedy of this			

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

Date format	:	dd.mm.yyyy
Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)



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SG OEL		: Singapore. Workplace Safety and Health (General Pl Regulations - First Schedule Permissible Exposure L		
ACGIH / TWA ACGIH / STEL SG OEL / PEL (long term) SG OEL / PEL (short term)		: Short-term exp : Permissible Ex	eighted average	

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

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.

SG / EN