



Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
2.7	09/30/2023	7848267-00009	Date of first issue: 03/03/2021

### **SECTION 1. IDENTIFICATION**

Product name :		Sulfamethoxazole / Trimethoprim Injection Formulation		
Manufacturer or supplier's d	leta	ails		
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065		
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

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

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR
1910.1200)

Skin corrosion	:	Category 1B
Serious eye damage	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 1 (Bone marrow)
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H361d Suspected of damaging the unborn child. H372 Causes damage to organs (Bone marrow) through pro- longed or repeated exposure.
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read

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		P264 Wash sk P270 Do not e P271 Use only	reathe mist or vapors. in thoroughly after handling. eat, drink or smoke when using this product. outdoors or in a well-ventilated area. otective gloves, protective clothing, eye protection
		Response:	
		Do NOT induc P303 + P361 - immediately al Immediately c P304 + P340 - and keep com CENTER. P305 + P351 - water for seve and easy to do CENTER. P308 + P313 I	<ul> <li>+ P331 + P310 IF SWALLOWED: Rinse mouth.</li> <li>e vomiting. Immediately call a POISON CENTER.</li> <li>+ P353 + P310 IF ON SKIN (or hair): Take off</li> <li>I contaminated clothing. Rinse skin with water.</li> <li>all a POISON CENTER.</li> <li>+ P310 IF INHALED: Remove person to fresh air fortable for breathing. Immediately call a POISON</li> <li>+ P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present</li> <li>b. Continue rinsing. Immediately call a POISON</li> <li>F exposed or concerned: Get medical attention. ontaminated clothing before reuse.</li> </ul>
		<b>Storage:</b> P405 Store loo	skad up
		Disposal:	skeu up.
		•	of contents and container to an approved waste
Othe	r hazards		
None	known.		
SECTION	3. COMPOSITION/I	NFORMATION ON INC	GREDIENTS
Subs	tance / Mixture	: Mixture	
Com	ponents		

Chemical name	CAS-No.	Concentration (% w/w)
1,3-Dioxan-5-ol	4740-78-7	>= 65.0407 - <= 76.1905
Sulfamethoxazole	723-46-6	>= 16.2602 - <= 19.0476
Ethanolamine	141-43-5	>= 6.5041 - <= 7.619
Trimethoprim	738-70-5	>= 3.252 - <= 3.8095

### **SECTION 4. FIRST AID MEASURES**

General advice

 In the case of accident or if you feel unwell, seek medical advice immediately.
 When symptoms persist or in all cases of doubt seek medical advice.



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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		:	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 center immediately. Rinse mouth thoroughly with water.			
	nportant symptoms ects, both acute and d	:	Causes serious e May cause respira Suspected of dam Causes damage t exposure. Causes severe bu	ye damage. atory irritation. haging the unborn child. o organs through prolonged or repeated urns.		
	tion of first-aiders	:	First Aid responde and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).		
In case If swall Most ir and eff delaye Protect	e of eye contact owed nportant symptoms ects, both acute and d		In case of contact for at least 15 min and shoes. Get medical atten Wash clothing be Thoroughly clean In case of contact for at least 15 min If easy to do, rem Get medical atten If swallowed, DO If vomiting occurs Call a physician o Rinse mouth thoro Never give anythi Causes serious e May cause respira Suspected of dam Causes damage t exposure. Causes severe bu Causes digestive First Aid responde and use the recor when the potentia	<ul> <li>immediately flush skin with plenty of wates while removing contaminated cloth tion immediately.</li> <li>fore reuse.</li> <li>shoes before reuse.</li> <li>immediately flush eyes with plenty of wates.</li> <li>ove contact lens, if worn.</li> <li>tion immediately.</li> <li>NOT induce vomiting.</li> <li>have person lean forward.</li> <li>r poison control center immediately.</li> <li>buth water.</li> <li>ng by mouth to an unconscious person.</li> <li>ye damage.</li> <li>atory irritation.</li> <li>haging the unborn child.</li> <li>o organs through prolonged or repeated</li> <li>urns.</li> <li>tract burns.</li> <li>ers should pay attention to self-protection</li> </ul>		

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Nitrogen oxides (NOx) Sulfur oxides Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	





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#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
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. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	<ul> <li>Soak up with inert absorbent material.</li> <li>For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.</li> <li>Clean up remaining materials from spill with suitable absorbent.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>

### SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation	CONTROLS/PERSO	asures under EXPOSURE NAL PROTECTION section. n is unavailable, use with local exhaust
Advice on safe handling	Do not get on skin or Do not breathe mist of Do not swallow. Do not get in eyes. Wash skin thoroughly Handle in accordance practice, based on the assessment Keep container tightly Already sensitized in to asthma, allergies, of should consult their prespiratory irritants or Do not eat, drink or s	or vapors. y after handling. e with good industrial hygiene and safety e results of the workplace exposure y closed. dividuals, and those susceptible chronic or recurrent respiratory disease, whysician regarding working with
Conditions for safe storage	Keep in properly labe	led containers.



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Mater	ials to avoid	Store in accord Do not store wi Strong oxidizing	sed. well-ventilated place. ance with the particular national regulations. th the following product types: g agents ibstances and mixtures

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ingredients with workplace control parameters							
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis			
Sulfamethoxazole	723-46-6	TWA	OEB 2 (>= 100 < 1000 µg/m3)	Internal			
Ethanolamine	141-43-5	TWA	3 ppm	ACGIH			
		STEL	6 ppm	ACGIH			
		TWA	3 ppm 8 mg/m <sup>3</sup>	NIOSH REL			
		ST	6 ppm 15 mg/m³	NIOSH REL			
		TWA	3 ppm 6 mg/m <sup>3</sup>	OSHA Z-1			
Trimethoprim	738-70-5	TWA	400 µg/m3 (OEB 2)	Internal			

### Ingredients with workplace control parameters

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	
Respiratory protection :	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide

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	protection terial	adequate prote	
Eye pr	otection	If the work envi mists or aeroso Wear a faceshi	asses with side shields or goggles. ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
	nd body protection ne measures	eye flushing sys working place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	light yellow
Odor	:	No data available
Odor Threshold	:	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
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



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Va	oor pressure	: No data availat	ble				
Re	ative vapor density	: No data availat	No data available				
Re	ative density	: No data availat	No data available				
De	nsity	: 1.050 - 1.230 g	/cm³				
	ubility(ies) Water solubility	: No data availat	ble				
	tition coefficient: n-	: Not applicable	Not applicable				
	anol/water oignition temperature	: No data availat	No data available				
De	composition temperature	: No data availat	No data available				
	cosity Viscosity, kinematic	: No data availat	ble				
Exp	plosive properties	: Not explosive					
	dizing properties lecular weight	: The substance : No data availat	or mixture is not classified as oxidizing. ble				
Pa	ticle 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 Incompatible materials	:	None known. Oxidizing agents Acids
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact according to the OSHA Hazard Communication Standard



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	Acute t Not clas	<b>oxicity</b> ssified based on availa	ble	information.	
	Produc	:t:			
			:	Acute toxicity estine Method: Calculation	mate: 4,367 mg/kg on method
	Acute ir	nhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculation	h vapor
	Acute d	lermal toxicity	:	Acute toxicity estin Method: Calculation	mate: > 5,000 mg/kg on method
	<u>Compo</u>	onents:			
	1,3-Dio	xan-5-ol:			
	Acute o	oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
	Acute d	lermal toxicity	:	LD50 (Rat): > 2,00 Remarks: Based o	00 mg/kg on data from similar materials
	Sulfam	ethoxazole:			
		oral toxicity	:	LD50 (Mouse): 2,3	300 mg/kg
	Ethano	lamine:			
		oral toxicity	:	LD50 (Rat): 1,089	mg/kg
	Acute ir	nhalation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju Remarks: Based of	h vapor
	Acute d	lermal toxicity	:	LD50 (Rabbit, ferr	nale): 1,018 mg/kg
	Trimeth	noprim:			
		ral toxicity	:	LD50 (Rat): 1,500	- 5,300 mg/kg
				LD50 (Mouse): 1,9	910 - 7,000 mg/kg
	Acute to adminis	oxicity (other routes of stration)	:	LD50 (Rat): 400 - Application Route	0 0
				LD50 (Dog): 90 m Application Route	
				LD50 (Mouse): 13 Application Route	

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ersion 7	Revision Date: 09/30/2023	SDS Number: 7848267-00009	Date of last issue: 04/04/2023 Date of first issue: 03/03/2021
_	corrosion/irritation es severe burns.		
	ponents:		
	ioxan-5-ol:		
Spec		: Rabbit	
Meth		: OECD Test Gu	
Resu Rema		: No skin irritatio	n from similar materials
Reine		. Dased on data	nom similar matchais
Sulfa	methoxazole:		
Spec		: Rabbit	
Resu	lt	: No skin irritatio	n
Etha	nolamine:		
Spec		: Rabbit	
Resu	lt	: Corrosive after	3 minutes to 1 hour of exposure
Serio	ous eye damage/eye	irritation	
	es serious eye dama		
Com	ponents:		
1,3-D	vioxan-5-ol:		
Spec	ies	: Rabbit	
Resu			es, reversing within 21 days
Meth Rema		: OECD Test Gu	from similar materials
		. Daoba on dala	
Etha	nolamine:		
Spec		: Rabbit	
Resu	It	: Irreversible effe	ects on the eye
Resp	iratory or skin sens	itization	
Skin	sensitization		
Not c	lassified based on av	ailable information.	
Resp	iratory sensitization	1	
Not c	lassified based on av	ailable information.	
Com	ponents:		
1,3-D	vioxan-5-ol:		
Test	Туре	: Maximization T	est
Route	es of exposure	: Skin contact	
Spec Meth		: Guinea pig : OECD Test Gu	uideline 406
INIGUI	<u> </u>		
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ersion .7	Revision Date: 09/30/2023	SDS Num 7848267-0	
Resul Rema		: negativ : Based	ve on data from similar materials
Sulfa	methoxazole:		
Test 1	Туре	: Magnu	usson-Kligman-Test
	s of exposure	: Skin c	
Speci		: Guinea	
Resul	t	: negati	ve
Ethar	olamine:		
Test 7	Гуре	: Maxim	nization Test
	s of exposure	: Skin c	
Speci		: Guinea	
Resul	t	: negati	ve
Trime	ethoprim:		
Test 7	Гуре	: Maxim	ization Test
	s of exposure	: Derma	
Speci Resul		: Guinea	a pig skin sensitizer.
	cell mutagenicity assified based on av	ailable informa	ition.
<u>Comp</u>	oonents:		
1,3-Di	ioxan-5-ol:		
Geno	toxicity in vitro		ype: Bacterial reverse mutation assay (AMES) : negative
			ype: In vitro mammalian cell gene mutation test
Geno	toxicity in vivo	cytoge	ype: Mammalian erythrocyte micronucleus test (in viv enetic assay)
		Result	es: Mouse : negative rks: Based on data from similar materials
Sulfa	methoxazole:		
	toxicity in vitro	· Test T	ype: Bacterial reverse mutation assay (AMES)
Geno			: negative
			ype: Chromosome aberration test in vitro : negative
Geno	toxicity in vivo	cytoge	ype: Mutagenicity (in vivo mammalian bone-marrow enetic test, chromosomal analysis) es: Humans



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			Result: negative	
Eth	anolamine:			
	otoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476
			Test Type: Chrom Result: negative	nosome aberration test in vitro
Gen	otoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	: Ingestion
	n <b>ethoprim:</b> lotoxicity in vitro		Tost Tupo: Rasto	ial reverse mutation assay (AMES)
Gen		•	Result: negative	Tar reverse mutation assay (AMEO)
			Test Type: Chrom Result: negative	nosomal aberration
			Test Type: In vitro Result: negative	mammalian cell gene mutation test
			Test Type: DNA c thesis in mammal Result: negative	lamage and repair, unscheduled DNA syn- ian cells (in vitro)
Gen	otoxicity in vivo	:	Test Type: Micror Species: Rat Result: negative	nucleus test
			Test Type: Chrom Species: Humans Result: negative	nosomal aberration
	<b>cinogenicity</b> classified based on availa	able	information.	
	nponents:	-	-	
	amethoxazole:			
Spe App		:	Mouse Ingestion 26 weeks	



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	Result			:	negative				
	IARC					at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.			
	OSHA				of this product present at levels greater than or equal to 0.1% is of regulated carcinogens.				
	NTP				of this product present at levels greater than or equal to 0.1% is known or anticipated carcinogen by NTP.				
			<b>toxicity</b> amaging the ur	nbor	rn child.				
	Compo	onents:							
	Ethanc	olamine	:						
	Effects	on fertil	ity	:	Species: Rat Application Route Method: OECD Te Result: negative				
	Effects	on fetal	development	:	Test Type: Embry Species: Rat Application Route Method: OECD Te Result: negative				
	Trimet	hoprim:							
		on fertil		:	Test Type: Fertility Species: Rat Application Route Fertility: NOAEL: Result: No effects	: Oral 70 mg/kg body weight			
	Effects	on fetal	development	:	Result: Effects on Remarks: Materna Test Type: Develo Species: Rat Application Route Developmental To Result: Embryotox	: Oral oxicity: LOAEL: 70 mg/kg body weight newborn. al toxicity observed. opment : Oral oxicity: LOAEL: 70 mg/kg body weight			
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				r
Repro	oductive toxicity - As- nent	:	Suspected of dar	naging the unborn child.
	<b>F-single exposure</b> cause respiratory irritati	on.		
<u>Com</u>	ponents:			
	n <b>olamine:</b> ssment	:	May cause respir	atory irritation.
STOT	<b>F-repeated exposure</b>			
	es damage to organs (I ponents:	Bone	marrow) through p	prolonged or repeated exposure.
	nolamine:			
	ssment	:	No significant heat tions of 0.2 mg/l/6	alth effects observed in animals at concentra- 6h/d or less.
Trime	ethoprim:			
Targe	et Organs ssment	:	Bone marrow Causes damage exposure.	to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
Ethar	nolamine:			
		:	Rat > 120 mg/kg Ingestion > 75 Days	

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NC Ap Ex	ecies DAEL plication Route posure time thod	:	Rat >= 0.15 mg/l inhalation (dust 28 Days OECD Test Gu	
Tri	methoprim:			
Sp NC LO Ap Ex	ecies DAEL AEL plication Route posure time rget Organs		Rat 100 mg/kg 300 mg/kg Oral 6 Months Bone marrow, L	-iver, Pituitary gland, Thyroid
LÓ Ap Ex	ecies AEL plication Route posure time rget Organs	:	Rat 300 mg/kg Oral 3 Months Bone marrow	
NC LO Ap Ex	ecies DAEL AEL plication Route posure time rget Organs		Dog 2.5 mg/kg 45 mg/kg Oral 3 Months Blood, Thyroid	
	<b>piration toxicity</b> t classified based on ava	ilable	information	
	perience with human e			
<u>Co</u>	mponents:			
	methoprim: estion	:		Bone marrow dominal pain, Nausea, Vomiting, skin rash, dache, mental depression, confusion
SECTIC	ON 12. ECOLOGICAL IN	FOR	MATION	
Ec	otoxicity			
<u>Co</u>	mponents:			

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



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		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 5 h on data from similar materials
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72	hneriella subcapitata (green algae)): > 100 : h on data from similar materials
				mg/l Exposure time: 72	irchneriella subcapitata (green algae)): > 1 : h on data from similar materials
	Toxicity	to microorganisms	:	EC10: > 1,000 mg Exposure time: 3 Method: OECD Te Remarks: Based o	n
	Sulfam	ethoxazole:			
	Toxicity		:	LC50 (Oryzias lati Exposure time: 96	pes (Japanese medaka)): 562.5 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 0.21 mg/l s h
	Toxicity plants	to algae/aquatic	:	EC50 (Synechoco 0.0268 mg/l Exposure time: 96	occus leopoliensis (blue-green algae)): h
				NOEC (Synechoc 0.0059 mg/l Exposure time: 96	occus leopoliensis (blue-green algae)): i h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 21	o (zebra fish)): 0.533 mg/l d
		to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 30	nagna (Water flea)): 0.01 mg/l I d
		to microorganisms	:	NOEC (activated a Method: OECD Te	sludge): 3.76 mg/l est Guideline 301D
	Ethano	lamine:			
	Toxicity		:	Exposure time: 96	arpio (Carp)): 349 mg/l i h 67/548/EEC, Annex V, C.1.
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 65 mg/l <sup>;</sup> h



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				Method: Directive	67/548/EEC, Annex V, C.2.
	Toxicity to algae/aquatic plants		:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokin Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 41 Method: OECD Te	
i	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.85 mg/l I d
	ic toxici Toxicity	ty) to microorganisms	:	EC10 (Pseudomo Exposure time: 30 Method: OECD Te	
	Trimeth	noprim:			
	Toxicity	•	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 100 mg/l 5 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna Straus (Water flea)): 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 (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
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21	
	aquatic	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 6 mg/l I d
	ic toxici Toxicity	ty) to microorganisms	:	EC10: 16.7 mg/l Exposure time: 3 Test Type: Respir	

-

according to the OSHA Hazard Communication Standard



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				Method: OECD Te	est Guideline 209		
				EC50: > 1,000 mg/l Exposure time: 3 hrs Test Type: Respiration inhibition Method: OECD Test Guideline 209			
	Persist	ence and degradabil	ity				
	Compo	onents:					
		<b>xan-5-ol:</b> radability	:	Result: Inherently Remarks: Based (	biodegradable. on data from similar materials		
		<b>ethoxazole:</b> radability	:	Result: Not readily Biodegradation: ( Exposure time: 28 Method: OECD To	) %		
		<b>lamine:</b> radability	:	Result: Readily bi Biodegradation: > Exposure time: 21 Method: OECD Te	> 90 %		
		<b>noprim:</b> radability	:	Result: Not inhere Biodegradation: ( Exposure time: 28	4 % 3 d est Guideline 301D ently biodegradable. 0 %		
	Bioacc	umulative potential					
	<u>Compo</u>	onents:					
		<b>xan-5-ol:</b> n coefficient: n- /water	•	log Pow: -0.65			
		ethoxazole: umulation	:	Species: Cyprinus Bioconcentration	s carpio (Carp) factor (BCF): < 120		



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	ion coefficient: n- ol/water	: log Pow: 0.89	
Ethar	nolamine:		
	ion coefficient: n- ol/water	: log Pow: -2.3 Method: OECD Test Guideline 107	
Partit	ethoprim: ion coefficient: n- ol/water	: log Pow: 0.91	
	<b>lity in soil</b> ata available		
	r adverse effects ata available		

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG		
UN number	:	UN 2491
Proper shipping name	:	ETHANOLAMINE SOLUTION
Class	:	8
Packing group	:	
Labels	÷	8
Environmentally hazardous		no
IATA-DGR		
UN/ID No.	:	UN 2491
Proper shipping name	:	Ethanolamine solution
Class	:	8
Packing group	:	
Labels	:	Corrosive
Packing instruction (cargo aircraft)	:	856
Packing instruction (passen- ger aircraft)	:	852
<b>c</b> ,		
IMDG-Code UN number		UN 2491
Proper shipping name	:	ETHANOLAMINE SOLUTION
	•	(Sulfamethoxazole)

according to the OSHA Hazard Communication Standard



## Sulfamethoxazole / Trimethoprim Injection Formulation

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Class Packing group Labels EmS Code Marine pollutant		: 8 : III : 8 : F-A, S-B : yes			
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				

Not applicable for product as supplied.

#### **Domestic regulation**

49 CFR	
UN/ID/NA number	: UN 2491
Proper shipping name	: Ethanolamine solutions
Class	: 8
Packing group	: 111
Labels	: CORROSIVE
ERG Code	: 153
Marine pollutant	: yes(Sulfamethoxazole)
•	

#### 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**

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Reproductive toxicity Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **US State Regulations**

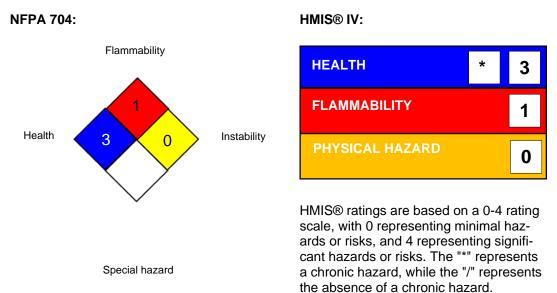
Pennsylvania Right To Know					
1,3-Dioxan-5-ol	4740-78-7				
Sulfamethoxazole	723-46-6				
Water	7732-18-5				
Ethanolamine	141-43-5				



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	Trimethoprim		738-70-5
Ca	ifornia List of Hazardou	s Substances	
	Sulfamethoxazole Ethanolamine		723-46-6 141-43-5
Ca	ifornia Permissible Exp	osure Limits for Cl	hemical Contaminants
	Ethanolamine		141-43-5
The	e ingredients of this pro	duct are reported i	n the following inventories:
DS	L	: not determine	d
AIC	S	: not determine	d
IEC	SC	: not determine	d

### **SECTION 16. OTHER INFORMATION**

### **Further information**



### Full text of other abbreviations

ACGIH NIOSH REL OSHA Z-1	<ul> <li>USA. ACGIH Threshold Limit Values (TLV)</li> <li>USA. NIOSH Recommended Exposure Limits</li> <li>USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants</li> </ul>
ACGIH / TWA ACGIH / STEL	<ul> <li>8-hour, time-weighted average</li> <li>Short-term exposure limit</li> </ul>
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday



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OSHA Z-1 / TWA

: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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: 09/30/2023

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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