

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Chemical product name	:	Sulfamethoxazole / Trimethoprim Injection Formulation
Supplier's company name, and Company name of supplier		ess and phone number MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

#### Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

#### 2. HAZARDS IDENTIFICATION

#### **GHS** classification of chemical product

Skin corrosion/irritation	:	Sub-category 1B
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



Version 7.0	Revision Date: 2024/09/28	SDS Number: 7848288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
Haza	rd pictograms		
Signa	al word	: Danger	• • •
Hazard statements		H335 May cau H361d Suspec H373 May cau prolonged or r	severe skin burns and eye damage. use respiratory irritation. cted of damaging the unborn child. use damage to organs (Bone marrow) through epeated exposure. ic to aquatic life with long lasting effects.
Preca	autionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P271 Use only P273 Avoid re	reathe mist or vapours. in thoroughly after handling. v outdoors or in a well-ventilated area. lease to the environment. otective gloves/ protective clothing/ eye protec-
		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. P363 Wash co P391 Collect s <b>Storage:</b> P405 Store loo <b>Disposal:</b>	<ul> <li>+ P353 + P310 IF ON SKIN (or hair): Take off</li> <li>I contaminated clothing. Rinse skin with water or</li> <li>diately call a POISON CENTER/ doctor.</li> <li>+ P310 IF INHALED: Remove person to fresh air</li> <li>fortable for breathing. Immediately call a TER/ doctor.</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 tor.</li> <li>F exposed or concerned: Get medical advice/</li> <li>ontaminated clothing before reuse.</li> <li>spillage.</li> <li>cked up.</li> </ul>



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

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

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components					
Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.		
1,3-Dioxan-5-ol	4740-78-7	>= 70 - < 80	-		
Sulfamethoxazole	723-46-6	>= 10 - < 20	-		
Ethanolamine	141-43-5	7.619	2-301		
Trimethoprim	738-70-5	>= 3.252 - <= 3.8095	-		

#### 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical a vice immediately. When symptoms persist or in all cases of doubt seek mediadvice.	
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 wa for at least 15 minutes while removing contaminated clothi 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 wa for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.	ater
If swallowed	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.	
Most important symptoms and effects, both acute and delayed	Causes serious eye damage. May cause respiratory irritation. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeat exposure. Causes severe burns. Causes digestive tract burns.	ted



Vers 7.0	sion	Revision Date: 2024/09/28		0S Number: 48288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03	
Protection of first-aiders		:	and use the recor	ers should pay attention to self-protection, nmended personal protective equipment		
	Notes t	to physician	:	when the potential for exposure exists (see section 8). Treat symptomatically and supportively.		
5. FI	IREFIG	HTING MEASURES				
Suitable extinguishing media		:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
	Unsuitable extinguishing media		:	None known.		
	Specific hazards during fire- fighting		:	Exposure to comb	oustion products may be a hazard to health.	
	Hazardous combustion prod- ucts		:	Nitrogen oxides (I Sulphur oxides Carbon oxides	NOx)	
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. ective equipment.		

#### 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 pro- tective 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	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



Version 7.0	Revision Date: 2024/09/28	SDS Number: 7848288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
		Clean up remain bent. Local or national posal of this ma employed in the mine which regu Sections 13 and	re recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- terial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
7. HANDL	ING AND STORAGE		
Hand	ling		
Tech	nical measures		g measures under EXPOSURE
Local	/Total ventilation		ERSONAL PROTECTION section. ilation is unavailable, use with local exhaust
Advic	e on safe handling	Do not swallow. Do not get in ey Wash skin thoro Handle in accor practice, based sessment Keep container Already sensitis to asthma, aller should consult t tory irritants or s Do not eat, drin	mist or vapours. res. bughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as- tightly closed. sed individuals, and those susceptible gies, chronic or recurrent respiratory disease, heir physician regarding working with respira-
Avoid	ance of contact	: Oxidizing agent Acids	S
Hygie	ne measures	: If exposure to c flushing system place. When using do Wash contamin The effective op engineering cor appropriate deg	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of ntrols, proper personal protective equipment, jowning and decontamination procedures, ne monitoring, medical surveillance and the rative controls.
Stora	ige		
Cond	itions for safe storage	: Keep in propert Store locked up Keep tightly clo	



Version 7.0	Revision Date: 2024/09/28	SDS Number: 7848288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
Mater	ials to avoid	Store in accor	l, well-ventilated place. dance with the particular national regulations. vith the following product types: ng agents
Packa	aging material	: Unsuitable ma	aterial: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work en-
vironment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Sulfamethoxazole	723-46-6	TWA	OEB 2 (>= 100 < 1000 μg/m3)	Internal
Ethanolamine	141-43-5	OEL-M	3 ppm 7.5 mg/m3	JP OEL JSOH
		8h-OEL-M	20 mg/m3	JP ISHL OEL 577-2(2)
		TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
Trimethoprim	738-70-5	TWA	400 µg/m3 (OEB 2)	Internal

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 equipmen	t
Respiratory protection : Filter type :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Hand protection Material :	Chemical-resistant gloves
Remarks : Eye protection :	Impermeable protective gloves 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



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

Skin and body protection	:	aerosols. Work uniform or laboratory coat.
9. PHYSICAL AND CHEMICAL PR	OF	PERTIES
Physical state	:	liquid
Colour	:	light yellow
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Up- per flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Decomposition temperature	:	No data available
рН	:	9.5 - 10.5
Evaporation rate	:	No data available
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable
Vapour pressure	:	No data available
Density and / or relative density	y	



# Sulfamethoxazole / Trimethoprim Injection Formulation

Explosive properties : Not explosive

Version 7.0	Revision Date: 2024/09/28		S Number: 48288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
Re	elative density	:	No data available	9
De	ensity	:	1.050 - 1.230 g/c	m <sup>3</sup>
Relati	ve vapour density	:	No data available	9

Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Molecular weight	: No data available	
Particle characteristics Particle size	: Not applicable	

#### **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.

#### **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



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

Components:		
1,3-Dioxan-5-ol:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials
Sulfamethoxazole:		
Acute oral toxicity	:	LD50 (Mouse): 2,300 mg/kg
Ethanolamine:		
Acute oral toxicity	:	LD50 (Rat): 1,089 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: 11 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Expert judgement Remarks: Based on national or regional regulation.
Acute dermal toxicity	:	LD50 (Rabbit, female): 1,018 mg/kg
Trimethoprim:		
Acute oral toxicity	:	LD50 (Rat): 1,500 - 5,300 mg/kg
		LD50 (Mouse): 1,910 - 7,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Rat): 400 - 500 mg/kg Application Route: Intraperitoneal
		LD50 (Dog): 90 mg/kg Application Route: Intravenous
		LD50 (Mouse): 132 mg/kg Application Route: Intravenous
Skin corrosion/irritation		
Causes severe burns.		
Components:		
1,3-Dioxan-5-ol:		
Species Method	:	Rabbit OECD Test Guideline 404
Result Remarks	:	No skin irritation Based on data from similar materials



/ersion 7.0	Revision Date: 2024/09/28		OS Number: 48288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03	
Sulfa	methoxazole:				
Sulla Speci Resul	es	:	Rabbit No skin irritatior	ı	
	nolamine:				
	Species Result		Rabbit Corrosive after	3 minutes to 1 hour of exposure	
	us eye damage/eye		on		
	es serious eye dama <u>c</u> oonents:	je.			
1,3-D	ioxan-5-ol:				
Speci Resul Metho Rema	lt od	:	<ul> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> <li>OECD Test Guideline 405</li> <li>Based on data from similar materials</li> </ul>		
Ethar	nolamine:				
Speci Resul	es	:	Rabbit Irreversible effe	cts on the eye	
Resp	iratory or skin sensi	tisatio	on		
	sensitisation lassified based on ava	ailahla	information		
Resp	iratory sensitisation				
	ponents:				
Test	sure routes les od lt		<ul> <li>Maximisation Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>OECD Test Guideline 406</li> <li>negative</li> <li>Based on data from similar materials</li> </ul>		
	methoxazole:				
Test T Expos Speci Resul	sure routes les	<ul> <li>Magnusson-Kligman-Test</li> <li>Skin contact</li> <li>Guinea pig</li> <li>negative</li> </ul>			

- : Guinea pig : negative



ersion 0	Revision Date: 2024/09/28	SDS Numbe 7848288-000				
Ethan	nolamine:					
Test T		: Maximisa				
	sure routes	: Skin cont				
Speci Resul		: Guinea p : negative	ıg			
Trime	ethoprim:					
Test T		: Maximisa	ation Test			
	sure routes	: Dermal				
Speci		: Guinea p	ig n sensitizer.			
Resul	L	. NOLASKI	n sensitizet.			
	cell mutagenicity					
	assified based on ava	allable informatio	n.			
	oonents:					
	ioxan-5-ol:					
Genotoxicity in vitro		: Test Typ Result: n	e: Bacterial reverse mutation assay (AMES) egative			
		Test Typ Result: n	e: In vitro mammalian cell gene mutation test egative			
Genot	toxicity in vivo	cytogene Species: Result: n				
	methoxazole:					
	toxicity in vitro	: Test Typ Result: n	e: Bacterial reverse mutation assay (AMES) egative			
		Test Typ Result: n	e: Chromosome aberration test in vitro egative			
Genot	toxicity in vivo	cytogene Species:	: Test Type: Mutagenicity (in vivo mammalian bone-marro cytogenetic test, chromosomal analysis) Species: Humans Result: negative			
II Ethan	nolamine:					
Genot	toxicity in vitro	: Test Typ Result: n	e: Bacterial reverse mutation assay (AMES) egative			
11						



# Sulfamethoxazole / Trimethoprim Injection Formulation

rsion	Revision Date: 2024/09/28	SDS Number: 7848288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
II		Result: nega	ative
		Test Type: 0 Result: nega	Chromosome aberration test in vitro ative
Geno	toxicity in vivo	cytogenetic Species: Mc Application I	ouse Route: Ingestion CD Test Guideline 474
Trime	ethoprim:		
Genotoxicity in vitro		: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) ative
		Test Type: 0 Result: nega	Chromosomal aberration ative
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ative
			DNA damage and repair, unscheduled DNA syr mmalian cells (in vitro) ative
Genotoxicity in vivo		: Test Type: N Species: Ra Result: nega	
		Test Type: 0 Species: Hu Result: nega	

#### Components:

#### Sulfamethoxazole:

Species Application Route	:	Mouse
Application Route	:	Ingestion
Exposure time	:	26 weeks
Result	:	negative

#### Reproductive toxicity

Suspected of damaging the unborn child.

Revision Date:

Version



Date of last issue: 2024/04/06

### Sulfamethoxazole / Trimethoprim Injection Formulation

SDS Number:

Version 7.0	Revision Date: 2024/09/28	SDS Number: 7848288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
Com	ponents:		
Etha	nolamine:		
Effec	ts on fertility	Species: Rat Application Rout Method: OECD Result: negative	Test Guideline 416
Effec ment	ts on foetal develop-	Species: Rat Application Rout	Test Guideline 414
Trime	ethoprim:		
Effec	ts on fertility	: Test Type: Fertil Species: Rat Application Rout Fertility: NOAEL Result: No effec	te: Oral : 70 mg/kg body weight
	Effects on foetal develop- ment	Result: Effects o	te: Oral Toxicity: LOAEL: 70 mg/kg body weight
		Result: Embryot	te: Oral Toxicity: LOAEL: 70 mg/kg body weight
			er

Test Type: Development



Version 7.0	Revision Date: 2024/09/28	SDS Number: 7848288-000	
		Developm	Rabbit n Route: Oral ental Toxicity: LOAEL: 100 mg/kg body weight nbryotoxic effects., No teratogenic effects
Repro sessn	oductive toxicity - As- nent	: Suspected	d of damaging the unborn child.
	- single exposure ause respiratory irritati	on.	
<u>Comp</u>	oonents:		
Ethar Asses	nolamine: ssment	: May cause	e respiratory irritation.
May c	- repeated exposure cause damage to organ conents:	s (Bone marrow	) through prolonged or repeated exposure.
Ethar	nolamine:		
Asses	ssment		ant health effects observed in animals at concentra- 2 mg/l/6h/d or less.
Trime	ethoprim:		
	et Organs ssment	: Bone mar : Causes da exposure.	row amage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Speci NOAE Applic	EL cation Route sure time	: Rat : > 120 mg/ : Ingestion : > 75 Days : Based on	-
	EL cation Route sure time	: 28 Days	g/l (dust/mist/fume) st Guideline 412
Trime Speci	ethoprim: es	: Rat	
		1	4 / 24



### Sulfamethoxazole / Trimethoprim Injection Formulation

Version 7.0	Revision Date: 2024/09/28		98 Number: 48288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
Expo Targ LOA Appl Expo Targ NOA LOA Appl Expo	EL lication Route osure time get Organs cies EL lication Route osure time get Organs cies		100 mg/kg 300 mg/kg Oral 6 Months Bone marrow, Liv Rat 300 mg/kg Oral 3 Months Bone marrow Dog 2.5 mg/kg 45 mg/kg Oral 3 Months Blood, Thyroid	er, Pituitary gland, Thyroid
Not Exp <u>Con</u> Trin	iration toxicity classified based on availa erience with human exp nponents: nethoprim: estion		I <b>re</b> Target Organs: Be Symptoms: Abdor	one marrow ninal pain, Nausea, Vomiting, skin rash, che, mental depression, confusion
Eco	LOGICAL INFORMATIO	N		
	<u>nponents:</u>			
	Dioxan-5-ol:			
Toxi	city to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 100 mg/l 5 h on data from similar materials
	city to daphnia and other atic invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 5 h on data from similar materials
Toxi plan	city to algae/aquatic ts	:	mg/l Exposure time: 72	hneriella subcapitata (green algae)): > 100 ? h on data from similar materials



Version 7.0	Revision Date: 2024/09/28		0S Number: 48288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
То	kicity to microorganisms	:	mg/l Exposure time: 72	on data from similar materials
		-	Exposure time: 3 Method: OECD Te	า
Su	lfamethoxazole:			
То	kicity to fish	:	LC50 (Oryzias lati Exposure time: 96	pes (Japanese medaka)): 562.5 mg/l i h
	kicity to daphnia and other uatic invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 0.21 mg/l s h
To: pla	kicity to algae/aquatic nts	:	EC50 (Synechoco 0.0268 mg/l Exposure time: 96	ccus leopoliensis (blue-green algae)): h
			NOEC (Synechoc 0.0059 mg/l Exposure time: 96	occus leopoliensis (blue-green algae)): i h
M-I	Factor (Acute aquatic tox-	:	10	
icity Tox icity	kicity to fish (Chronic tox-	:	NOEC (Danio reri Exposure time: 21	o (zebra fish)): 0.533 mg/l d
aqı	kicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	NOEC (Daphnia r Exposure time: 30	nagna (Water flea)): 0.01 mg/l I d
M-I	Factor (Chronic aquatic	:	10	
	icity) kicity to microorganisms	:	NOEC (activated a Method: OECD Te	sludge): 3.76 mg/l est Guideline 301D
Etł	nanolamine:			
	kicity to fish	:	Exposure time: 96	arpio (Carp)): 349 mg/l 5 h 67/548/EEC, Annex V, C.1.
	kicity to daphnia and other uatic invertebrates	:	Exposure time: 48	agna (Water flea)): 65 mg/l h 67/548/EEC, Annex V, C.2.
То	kicity to algae/aquatic	:	ErC50 (Pseudokir	chneriella subcapitata (green algae)): 2.8



	of last issue: 2024/04/06 of first issue: 2021/03/03
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plants		mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l Exposure time: 41 d Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.85 mg/l Exposure time: 21 d
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209
Trimethoprim:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna Straus): 92 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 80.3 mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 16 mg/l Exposure time: 72 h
		EC50 (Anabaena flos-aquae): 253 mg/l Exposure time: 72 h
		EC10 (Anabaena flos-aquae): 26 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Zebrafish): 0.157 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Daphnia magna (Water flea)): 6 mg/l Exposure time: 21 d
ic toxicity) Toxicity to microorganisms	:	EC10: 16.7 mg/l Exposure time: 3 hrs Test Type: Respiration inhibition Method: OECD Test Guideline 209



/ersion ′.0	Revision Date: 2024/09/28		OS Number: 48288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03
			EC50: > 1,000 m Exposure time: 3 Test Type: Resp Method: OECD T	3 hrs
	stence and degrada	ωπτγ		
	oonents:			
	<b>ioxan-5-ol:</b> gradability	:	Result: Inherentl Remarks: Based	y biodegradable. I on data from similar materials
Sulfa	methoxazole:			
Biode	gradability	:	Biodegradation: Exposure time: 2	
Ethar	nolamine:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD	> 90 %
Trime	ethoprim:			
	gradability	:	Biodegradation: Exposure time: 2	
			Biodegradation: Exposure time: 2	
Bioad	ccumulative potentia	al		
	oonents:			
	ioxan-5-ol:			
Partit	ion coefficient: n- ol/water	:	log Pow: -0.65	
	methoxazole:			
Bioac	cumulation	:	Species: Cyprinu Bioconcentration	us carpio (Carp) n factor (BCF): < 120



Version 7.0	Revision Date: 2024/09/28	-	DS Number: 348288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03		
	tion coefficient: n- nol/water	:	log Pow: 0.89			
Etha	nolamine:					
	tion coefficient: n- nol/water	:	log Pow: -2.3 Method: OECD T	est Guideline 107		
Trim	ethoprim:					
	tion coefficient: n- nol/water	:	log Pow: 0.91			
	<b>ility in soil</b> lata available					
	ardous to the ozone lay applicable	yer				
	er adverse effects lata available					
13. DISP	OSAL CONSIDERATIO	NS				
Disp	osal methods					
Was	te from residues	:		ordance with local regulations.		
Cont	Contaminated packaging		Do not dispose of waste into sewer. Empty containers should be taken to an approved wast dling site for recycling or disposal. If not otherwise specified: Dispose of as unused produc			
14. TRAN	SPORT INFORMATIO	N				
Inter	national Regulations					
	R <b>TDG</b> number	:	UN 2491			

Proper shipping name Class Packing group Labels	:	ETHANOLAMINE SOLUTION 8 III 8
Environmentally hazardous IATA-DGR UN/ID No. Proper shipping name	:	no UN 2491 Ethanolamine solution
Class Packing group Labels Packing instruction (cargo	:	8 III Corrosive 856
aircraft) Packing instruction (passen-	:	852



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

#### ger aircraft)

IMDG-Code		
UN number	: UN 2491	
Proper shipping name	: ETHANOLAMINE SOLUTIO	Ν
	(Sulfamethoxazole)	
Class	: 8	
Packing group	: 111	
Labels	: 8	
EmS Code	: F-A, S-B	
Marine pollutant	: yes	

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

Refer to section 15 for specific national regulation.

#### 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.

#### **ERG Code** : 153

#### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### Fire Service Law

Not applicable to dangerous materials / designated flammables.

#### Chemical Substance Control Law

Priority Assessment Chemical Substance	
Chemical name	Number
2-Aminoethanol	107

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Substances Prevented From Impairment of Health

Not applicable

## Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

## Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

#### Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
2-Aminoethanol	>=6.5041 - <=7.619	-
5-[(3,4,5- trimethoxyphenyl)methyl]pyrimidine-2,4- diamine	>=3.252 - <=3.8095	-

#### Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Remarks
2-Aminoethanol	-
5-[(3,4,5-trimethoxyphenyl)methyl]pyrimidine-2,4-diamine	-

#### Skin and Eye Damage Substances for PPE Requirements (ISHL MO Art. 594-2)

Chemical name

2-Aminoethanol

#### Carcinogenic Substances (Article 577-2 of the Occupational Health and Safety Regulations)

Not applicable

#### Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

#### Ordinance on Prevention of Lead Poisoning

Not applicable

#### Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

#### **Ordinance on Prevention of Organic Solvent Poisoning**

Not applicable

## Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)

Not applicable

#### Poisonous and Deleterious Substances Control Law

Not applicable

### Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

#### **Class I Designated Chemical Substances**

Chemical name	Administration number	Concentration (%)
2-Aminoethanol	20	7.6



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

#### High Pressure Gas Safety Act

Not applicable

#### **Explosive Control Law**

Not applicable

#### **Vessel Safety Law**

Corrosive substances (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

#### **Aviation Law**

Corrosive substances (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

#### Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Noxious liquid substance(Category Z)
Baix transportation	•	

Pack transportation : Classified as marine pollutant

#### Narcotics and Psychotropics Control Act

Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable

#### Waste Disposal and Public Cleansing Law

Industrial waste

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

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

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

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

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

#### Date format : yyyy/mm/dd

#### Full text of other abbreviations



Version 7.0	Revision Date: 2024/09/28	SDS Number: 7848288-00011	Date of last issue: 2024/04/06 Date of first issue: 2021/03/03		
ACGIH JP ISHL OEL 577-2(2)			USA. ACGIH Threshold Limit Values (TLV) Concentration standard (Value set by the Minister of Health,		
		Article 577-2(2)			
JP OEL JSOH		• •	Japan. The Japan Society for Occupational Health. Recom- mendation of Occupational Exposure Limits		
ACGIH / TWA		: 8-hour, time-we	8-hour, time-weighted average		
ACGIH / STEL		: Short-term expo	Short-term exposure limit		
JP IS OEL-	HL OEL 577-2(2) / 8h- M		ional Exposure Limit-Mean		
JP OEL JSOH / OEL-M		: Occupational E	Occupational Exposure Limit-Mean		

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



Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
7.0	2024/09/28	7848288-00011	Date of first issue: 2021/03/03

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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