

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
13.2	12/08/2023	508652-00027	Date of first issue: 02/10/2016

#### **SECTION 1. IDENTIFICATION**

Product name Other means of identification		Sulfadiazine (40%) / Trimethoprim (8%) Liquid Formulation Tribrissen 48% (A005320)		
Manufacturer or supplier's c	deta	ails		
Company name of supplier	:	Merck & Co., Inc		
Address	:	126 E. Lincoln Avenue		
		Rahway, New Jersey U.S.A. 07065		
Telephone	:	908-740-4000		
Emergency telephone	:	1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@merck.com		
Recommended use of the chemical and restrictions on use				
Recommended use	:	Veterinary product		

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

Restrictions on use : Not applicable

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

Skin corrosion	:	Category 1A
Serious eye damage	:	Category 1
Respiratory sensitizati	ion :	Category 1
Reproductive toxicity	:	Category 2
Specific target organ t - single exposure	oxicity :	Category 3
Specific target organ t - repeated exposure	oxicity :	Category 1 (Bone marrow)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H314 Causes severe skin burns and eye damage.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H361 Suspected of damaging fertility or the unborn child.</li> <li>H372 Causes damage to organs (Bone marrow) through pro-</li> </ul>

according to the OSHA Hazard Communication Standard



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

rsion .2	Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
		longed or repea	ated exposure.
Preca	utionary Statements	P202 Do not ha and understood P260 Do not br P264 Wash ski P270 Do not ea P271 Use only P280 Wear pro and face proted	eathe mist or vapors. n thoroughly after handling. at, drink or smoke when using this product. outdoors or in a well-ventilated area. tective gloves, protective clothing, eye protection
		Do NOT induce P303 + P361 + immediately all Immediately ca P304 + P340 + and keep comf CENTER. P305 + P351 + water for sever and easy to do CENTER. P308 + P313 IF P342 + P311 If tor.	<ul> <li>P331 + P310 IF SWALLOWED: Rinse mouth.</li> <li>vomiting. Immediately call a POISON CENTE</li> <li>P353 + P310 IF ON SKIN (or hair): Take off contaminated clothing. Rinse skin with water.</li> <li>II a POISON CENTER.</li> <li>P310 IF INHALED: Remove person to fresh ai ortable for breathing. Immediately call a POISO</li> <li>P338 + P310 IF IN EYES: Rinse cautiously wiral minutes. Remove contact lenses, if present</li> <li>Continue rinsing. Immediately call a POISON</li> <li>F exposed or concerned: Get medical attention.</li> <li>experiencing respiratory symptoms: Call a doc</li> </ul>
		<b>Storage:</b> P405 Store loc	ked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents and container to an approved waste
	r <b>hazards</b> known.		
110110			

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
sulfadiazine	68-35-9	40
Trimethoprim	738-70-5	8
Sodium hydroxide	1310-73-2	5.5



Version 13.2	Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016		
2,2'-Ir	ninodiethanol	111-42-2	0.6		
SECTION	4. FIRST AID MEASU	RES			
Gene	ral advice	advice immedia	accident or if you feel unwell, seek medical liately. ms persist or in all cases of doubt seek medical		
lf inha	aled	If not breathing If breathing is o	nove to fresh air. g, give artificial respiration. difficult, give oxygen. ttention immediately.		
In cas	se of skin contact	: In case of cont for at least 15 m and shoes. Get medical at Wash clothing	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing		
In cas	se of eye contact	: In case of cont for at least 15 r If easy to do, re	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, D If vomiting occ Call a physicia Rinse mouth th	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. Never give anything by mouth to an unconscious person.		
Most important symptoms and effects, both acute and delayed		us eye damage. ergy or asthma symptoms or breathing difficul- spiratory irritation. damaging fertility or the unborn child. ge to organs through prolonged or repeated e burns.			
Prote	ction of first-aiders	: First Aid respo and use the re-	conders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).		
Notes	s to physician		natically and supportively.		

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

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing	:	None known.



Versio 13.2	on	Revision Date: 12/08/2023		S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
S fi ⊢	ghting	hazards during fire	:	Exposure to comb Carbon oxides Metal oxides	oustion products may be a hazard to health.
0	ods	extinguishing meth-	:	cumstances and t Use water spray to Remove undamag so. Evacuate area.	measures that are appropriate to local cir- he surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do
		protective equipment ighters	•	Use personal prot	, wear self-contained breathing apparatus. ective equipment.
SECT	ION 6.	ACCIDENTAL RELE	ASE	EMEASURES	
ti	ve equ	al precautions, protec- ipment and emer- procedures	:		ective equipment. Ing advice (see section 7) and personal ent recommendations (see section 8).
E	Environ	mental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or e of contaminated wash water. hould be advised if significant spillages
		s and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ag materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPO CONTROLS/PERSONAL PROTECTIO	
Local/Total ventilation	If sufficient ventilation is unavailable, us ventilation.	e with local exhaust
Advice on safe handling	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow.	

according to the OSHA Hazard Communication Standard



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

Version 13.2	Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016			
		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 assessment Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.				
Conditions for safe storage		Store locked up. Keep tightly clos Keep in a cool, v				
Mate	rials to avoid	: Do not store with Strong oxidizing	n the following product types: agents ostances and mixtures			

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
sulfadiazine	68-35-9	TWA	2 mg/m3 (OEB 1)	Internal
Trimethoprim	738-70-5	TWA	400 μg/m3 (OEB 2)	Internal
Sodium hydroxide	1310-73-2	С	2 mg/m <sup>3</sup>	ACGIH
		С	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	2 mg/m <sup>3</sup>	OSHA Z-1
2,2'-Iminodiethanol	111-42-2	TWA (Inhal- able fraction and vapor)	1 mg/m³	ACGIH
		TWA	3 ppm 15 mg/m <sup>3</sup>	NIOSH REL

### 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.
------------------------	--



Version 13.2	Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
Pers	sonal protective equip	ment	
Respiratory protection		maintain vap concentratior unknown, ap Follow OSHA use NIOSH/N by air purifyir hazardous ch supplied resp release, expo	local exhaust ventilation is recommended to or exposures below recommended limits. Where as are above recommended limits or are propriate respiratory protection should be worn. A respirator regulations (29 CFR 1910.134) and ASHA approved respirators. Protection provided ag respirators against exposure to any hemical is limited. Use a positive pressure air birator if there is any potential for uncontrolled osure levels are unknown, or any other e where air purifying respirators may not provide tection.
	d protection /laterial	: Chemical-res	istant gloves
Eye	protection	If the work er mists or aero Wear a faces	glasses with side shields or goggles. hvironment or activity involves dusty conditions, sols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or
	and body protection iene measures	<ul> <li>Work uniform</li> <li>If exposure to eye flushing s working place</li> <li>When using of Wash contan</li> <li>The effective engineering of appropriate of industrial hyg</li> </ul>	o or laboratory coat. o chemical is likely during typical use, provide systems and safety showers close to the e. do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, iene monitoring, medical surveillance and the istrative controls.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	light yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	10.0 - 10.5
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available

according to the OSHA Hazard Communication Standard



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

Vers 13.2		Revision Date: 12/08/2023		S Number: 652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
	Evaporat	tion rate	:	No data available	9
	Flammat	bility (solid, gas)	:	Not applicable	
	Flammat	oility (liquids)	:	No data available	9
	Upper ex flammab	xplosion limit / Upper ility limit	:	No data available	)
	Lower ex flammab	xplosion limit / Lower ility limit	:	No data available	)
	Vapor pr	essure	:	No data available	)
	Relative	vapor density	:	No data available	)
	Relative	density	:	No data available	9
	Density		:	No data available	9
	Solubility Wate	r solubility	:	No data available	)
		coefficient: n-	:	Not applicable	
	octanol/v Autoignit	vater tion temperature	:	No data available	9
	Decomp	osition temperature	:	No data available	9
	Viscosity Visco	, sity, kinematic	:	No data available	9
	Explosive	e properties	:	Not explosive	
	Oxidizing	g properties	:	The substance or	r mixture is not classified as oxidizing.
	Particle s	size	:	Not applicable	

### SECTION 10. STABILITY AND REACTIVITY

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





Version Revision Date:	SDS Number:	Date of last issue: 09/30/2023
13.2 12/08/2023	508652-00027	Date of first issue: 02/10/2016

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Inhalation Skin contact Ingestion Eye contact	s of	exposure
Acute toxicity Not classified based on avail	able	information.
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 2,344 mg/kg Method: Calculation method
Components:		
sulfadiazine:		
Acute oral toxicity	:	LD50 (Mouse): 1,500 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: Based on data from similar materials
Acute toxicity (other routes of administration)	f:	LD50 (Rat): 880 mg/kg Application Route: Intravenous
		LD50 (Mouse): 180 mg/kg Application Route: Intravenous
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)	f:	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
Sodium hydroxide: Acute inhalation toxicity	:	Assessment: Corrosive to the respiratory tract.
<b>2,2'-Iminodiethanol:</b> Acute oral toxicity	:	LD50 (Rat): 1,600 mg/kg



/ersion I3.2	Revision Date: 12/08/2023		9S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
Acute	e inhalation toxicity	:	LC50 (Rat, male) Exposure time: 4 Test atmosphere	h
Caus	corrosion/irritation ses severe burns.			
<u>Com</u>	<u>ponents:</u>			
	diazine:			
Resu Rema		:	Skin irritation Based on data fro	om similar materials
Sodi	um hydroxide:			
Resu	-	:	Corrosive after 3	minutes or less of exposure
2,2'-l	minodiethanol:			
Spec	ies	:	Rabbit	
Resu	llt	:	Skin irritation	
Seric	ous eye damage/eye i	rritati	on	
Caus	ses serious eye damage	э.		
<u>Com</u>	ponents:			
sulfa	diazine:			
Spec		:	Rabbit	
Resu Rema		:		reversing within 7 days om similar materials
Sodi	um hydroxide:			
Resu		:	Irreversible effect	
Rema	arks	÷	Based on skin co	prrosivity.
2,2'-l	minodiethanol:			
Spec		:	Rabbit	
Resu	llt	:	Irreversible effect	ts on the eye
Resp	piratory or skin sensit	izatio	n	
Skin	sensitization			
Nata	less if ad besed as avai		information	

Not classified based on available information.

#### Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

according to the OSHA Hazard Communication Standard



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

Version 13.2	Revision Date: 12/08/2023		9S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
<u>Con</u>	nponents:			
sulf	adiazine:			
Spe Res	t Type cies ult narks	:	Maximization 1 Guinea pig Not a skin sens Based on data	
Trin	nethoprim:			
Rou	t Type tes of exposure cies ult	:	Maximization T Dermal Guinea pig Not a skin sens	
Sod	lium hydroxide:			
Tes	t Type ites of exposure	:	Human repeat Skin contact negative	insult patch test (HRIPT)
2,2'	-Iminodiethanol:			
Tes Rou	t Type ttes of exposure cies hod	::	Maximization T Skin contact Guinea pig OECD Test Gu negative	
	m cell mutagenicity classified based on av	ailable	information.	
Con	nponents:			
sulf	adiazine:			
Gen	notoxicity in vitro	:	Result: negativ	cterial reverse mutation assay (AMES) re ed on data from similar materials
			Test system: C Result: negativ	romosomal aberration Chinese hamster ovary cells re ed on data from similar materials
Trin	nethoprim:			
	otoxicity in vitro	:	Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) e
			Test Type: Chr Result: negativ	romosomal aberration re
			Test Type: In v	itro mammalian cell gene mutation test

according to the OSHA Hazard Communication Standard



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

Version 13.2	Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
		Result: neg	ative
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ative
Geno	toxicity in vivo	: Test Type: Species: Ra Result: neg	
		Test Type: Species: H Result: neg	
2,2'-lı	minodiethanol:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
		Test Type: Result: neg	Chromosome aberration test in vitro ative
		Test Type: malian cells Result: neg	
Geno	toxicity in vivo	cytogenetic Species: M	ouse Route: Skin contact
	nogenicity lassified based on ava	lable information	
	oonents:		
2.2'-lı	minodiethanol:		
Speci Applic	es cation Route sure time	: Mouse : Skin contac : 103 weeks	t

- : 103 weeks : positive
- Dositive
   The mechanism or mode of action may not be relevant in humans.
- Species:RatApplication Route:Skin contactExposure time:103 weeksResult:negative

Result

Remarks



Vers 13.2				9S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016	
	Carcino ment	ogenicity	y - Assess-	:	Weight of eviden	ce does not support classification as a car-
	IARC		Group 2B: Po 2,2'-Iminodiet		ly carcinogenic to ol	humans 111-42-2
	OSHA			No component of this produ on OSHA's list of regulated		nt at levels greater than or equal to 0.1% is gens.
	NTP					t at levels greater than or equal to 0.1% is carcinogen by NTP.
	-		<b>toxicity</b> lamaging fertilit	ty or	the unborn child.	
	Compo	onents:				
	sulfadi Effects		l development	:	Result: Embryoto	
	Trimet	hoprim	:			
	Effects	on fertil	lity	:	Test Type: Fertili Species: Rat Application Route Fertility: NOAEL: Result: No effects	e: Oral 70 mg/kg body weight
	Effects	on fetal	l development	:	Result: Effects or	e: Oral oxicity: LOAEL: 70 mg/kg body weight
					Result: Embryoto	e: Oral oxicity: LOAEL: 70 mg/kg body weight
					Test Type: Devel Species: Rat Application Route Developmental T	

\_



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

Versio 13.2	n	Revision Date: 12/08/2023	-	S Number: 3652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016				
				Result: Embryotox	tic effects., Teratogenic effects.				
				Test Type: Development Species: Hamster Application Route: Oral Developmental Toxicity: LOAEL: 1.7 mg/kg body weight Result: Embryotoxic effects., No teratogenic effects.					
				Test Type: Development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weight Result: Embryotoxic effects., No teratogenic effects.					
	eprodi essme	uctive toxicity - As- nt	:	Suspected of dam	aging the unborn child.				
2,	, <b>2'-I</b> mi	nodiethanol:							
Ef	ffects	on fertility	:	Test Type: One-ge Species: Rat Application Route: Method: OECD Te Result: positive					
Ef	ffects	on fetal development	:	Test Type: One-ge Species: Rat Application Route: Method: OECD Te Result: positive					
	eprodi essme	uctive toxicity - As- nt	:		adverse effects on sexual function and development, based on animal experiments.				
		ingle exposure use respiratory irritation	า.						
<u>C</u> (	ompo	nents:							
	ulfadia ssessr		:	May cause respira	atory irritation.				
		epeated exposure damage to organs (Bo	one	marrow) through p	rolonged or repeated exposure.				
		nents:							
		oprim:							
Та		Drgans	:	Bone marrow Causes damage to exposure.	o organs through prolonged or repeated				

according to the OSHA Hazard Communication Standard



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

Vers 13.2	ion Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016				
	2,2'-Iminodiethanol:						
	Routes of exposure Target Organs Assessment	: Shown to produ	<ul> <li>Ingestion</li> <li>Kidney, Blood, Liver, Nervous system</li> <li>Shown to produce significant health effects in animals at concentrations of &gt;10 to 100 mg/kg bw.</li> </ul>				
	Routes of exposure Target Organs Assessment	<ul> <li>inhalation (dust/mist/fume)</li> <li>Kidney, Blood</li> <li>Shown to produce significant health effects in animals at concentrations of &gt;0.02 to 0.2 mg/l/6h/d.</li> </ul>					
	Routes of exposure Target Organs Assessment	: Shown to produ	<ul> <li>Skin contact</li> <li>Blood, Liver, Kidney</li> <li>Shown to produce significant health effects in animals at concentrations of &gt;20 to 200 mg/kg bw.</li> </ul>				
	Repeated dose toxicity						
	Components:						
	Trimethoprim:						
	Species NOAEL LOAEL Application Route Exposure time Target Organs	: Rat : 100 mg/kg : 300 mg/kg : Oral : 6 Months : Bone marrow, L	iver, Pituitary gland, Thyroid				
	Species LOAEL Application Route Exposure time Target Organs	: Rat : 300 mg/kg : Oral : 3 Months : Bone marrow					
	Species NOAEL LOAEL Application Route Exposure time Target Organs	: Dog : 2.5 mg/kg : 45 mg/kg : Oral : 3 Months : Blood, Thyroid	<ul> <li>2.5 mg/kg</li> <li>45 mg/kg</li> <li>Oral</li> <li>3 Months</li> </ul>				
	2,2'-Iminodiethanol:						
	Species LOAEL Application Route Exposure time	: Rat, female : 14 mg/kg : Ingestion : 13 Weeks					
	Species NOAEL Application Route Exposure time	: Rat : 0.015 mg/l : inhalation (dust/ : 90 Days	/mist/fume)				





Version 13.2	Revision Date: 12/08/2023	SDS Number: 508652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
Metho	od	: OECD Test	Guideline 413
		: Rat : 32 mg/kg : Skin contac : 13 Weeks	t
Not cl	ration toxicity lassified based on ava rience with human e		
<u>Com</u>	oonents:		
sulfa	diazine:		
Gene	ral Information	: May cause	eye, skin, and respiratory tract irritation.
Trime	ethoprim:		
Inges	tion	Symptoms:	ns: Bone marrow Abdominal pain, Nausea, Vomiting, skin rash, leadache, mental depression, confusion
SECTION	12 ECOLOGICAL IN	FORMATION	

#### SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### **Components:**

#### sulfadiazine:

Sullaulazine.		
Toxicity to fish		LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	•	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Foxicity to algae/aquatic : blants		EC50 (Anabaena flos-aquae): 17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Anabaena flos-aquae): 3.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		EC50 (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 0.13 mg/l

according to the OSHA Hazard Communication Standard



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

Vers 13.2	ion	Revision Date: 12/08/2023		S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
				Exposure time: 72 Method: OECD Te	h est Guideline 201
				EC50 (Microcystis Exposure time: 7 Method: ISO 8692	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
				NOEC: 1,000 mg/ Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition
	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 5 h
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (microalgae)): 80.3 ? h
				NOEC (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 16 ! h
				EC50 (Anabaena Exposure time: 72	flos-aquae): 253 mg/l ? h
				EC10 (Anabaena Exposure time: 72	flos-aquae): 26 mg/l ? h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21	
		to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 6 mg/l d
		to microorganisms	:	EC10: 16.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition



according to the OSHA Hazard Communication Standard

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

Version 13.2	Revision Date: 12/08/2023	-	98 Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
			EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	hrs ation inhibition
2.2'-Ir	ninodiethanol:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 460 mg/l 3 h
	ty to daphnia and other ic invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 30.1 mg/l 3 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72	chneriella subcapitata (green algae)): 9.5 ? h
			EC10 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 1.1 ? h
aquat	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		EC10 (Daphnia m Exposure time: 21	agna (Water flea)): 1.05 mg/l d
	ty to microorganisms	:	EC10 (activated s Exposure time: 30 Method: OECD Te	
Persi	stence and degradabil	ity		
Comp	oonents:			
sulfa	diazine:			
Biode	gradability	:	Result: Not readily Biodegradation: 0 Exposure time: 28 Method: OECD To	) % 3 d
Trime	thoprim:			
Biode	gradability	:	Result: Not inhere Biodegradation: ( Exposure time: 28	4 % 3 d est Guideline 301D ently biodegradable. ) %

### 2,2'-Iminodiethanol:

according to the OSHA Hazard Communication Standard



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

ersion 5.2	Revision Date: 12/08/2023		0S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
Biode	egradability	:	Biodegradation Exposure time:	
Bioa	ccumulative potenti	al		
<u>Com</u>	ponents:			
sulfa	diazine:			
	ion coefficient: n- ol/water	:	log Pow: 0.12	
Partit	ethoprim: ion coefficient: n- ol/water	:	log Pow: 0.91	
2,2'-l	minodiethanol:			
	ion coefficient: n- ol/water	:	log Pow: -2.46 Method: OECD	) Test Guideline 107
Mobi	lity in soil			
No da	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

<b>UNRTDG</b> UN number Proper shipping name	:	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Sodium hydroxide)
Class Packing group Labels Environmentally hazardous	:	8 I 8 no
<b>IATA-DGR</b> UN/ID No. Proper shipping name	:	UN 3267 Corrosive liquid, basic, organic, n.o.s.





Version 13.2	Revision Date: 12/08/2023		0S Number: 8652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
			(Sodium hydroxic	de)
Class		:	8	
Packing	g group	:		
Labels		:	Corrosive	
Packing aircraft	g instruction (cargo	:	854	
Packing ger airc	g instruction (passen- craft)	:	850	
IMDG-0	Code			
UN nur		:	UN 3267	
Proper	shipping name	:	CORROSIVE LIQ (Sodium hydroxid	UID, BASIC, ORGANIC, N.O.S. e, sulfadiazine)
Class		:	8	
Packing	g group	:	1	
Labels		:	8	
EmS C	ode	:	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.

#### Domestic regulation

<b>49 CFR</b> UN/ID/NA number Proper shipping name	:	UN 3267 Corrosive liquid, basic, organic, n.o.s. (Sodium hydroxide)
Class	:	8
Packing group	:	1
Labels	:	CORROSIVE
ERG Code	:	153
Marine pollutant	:	yes(sulfadiazine)

#### 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**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
2,2'-Iminodiethanol	111-42-2	100	16666
Sodium hydroxide	1310-73-2	1000	18181

#### 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.



Version 13.2	Revision Date: 12/08/2023		S Number: 3652-00027	Date of last issue: 09/30/2023 Date of first issue: 02/10/2016
SAR	A 311/312 Hazards	:	Skin corrosion or	city gan toxicity (single or repeated exposure)
SAR	A 313	:	known CAS numb	s not contain any chemical components with pers that exceed the threshold (De Minimis) stablished by SARA Title III, Section 313.
US S	State Regulations			
Penr	nsylvania Right To Kno	w		
	Water sulfadiazine			7732-18-5
	Trimethoprim			68-35-9 738-70-5
	Sodium hydroxide			1310-73-2
	2,2'-Iminodiethano	l		111-42-2
Calif	fornia Prop. 65			
know	NING: This product can vn to the State of Califorr v.P65Warnings.ca.gov.			als including 2,2'-Iminodiethanol, which is/are r more information go to
Calif	fornia List of Hazardou	s Sul	bstances	
	Sodium hydroxide			1310-73-2
Calif	fornia Permissible Exp	osure	e Limits for Chem	nical Contaminants
	Sodium hydroxide			1310-73-2
The	ingredients of this pro	duct	are reported in th	ne following inventories:
AICS	6	:	not determined	-
DSL		:	not determined	
IECS	SC	:	not determined	

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

**Further information** 





Version **Revision Date:** SDS Number: Date of last issue: 09/30/2023 508652-00027 13.2 12/08/2023 Date of first issue: 02/10/2016 NFPA 704: HMIS® IV: Flammability \* HEALTH 3 FLAMMABILITY 1 Health Instability 3 0 PHYSICAL HAZARD 0 HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents Special hazard a chronic hazard, while the "/" represents the absence of a chronic hazard. Full text of other abbreviations ACGIH USA. ACGIH Threshold Limit Values (TLV) NIOSH REL USA. NIOSH Recommended Exposure Limits OSHA Z-1 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

		its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / C	:	Ceiling limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
		Ceiling value not be exceeded at any time. 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



Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
13.2	12/08/2023	508652-00027	Date of first issue: 02/10/2016

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

Revision Date : 12/08/2023

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.

US / Z8