

VersionRevision Date:SDS Number:Date of last issue: 04.04.20239.030.09.20231737558-00019Date of first issue: 08.06.2017	
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Section 1: Identification

Product name	:	Sulfadiazine (20%) / Trimethoprim (4%) Liquid Formulation		
Manufacturer or supplier's d Company	eta :	ils MSD		
Address	:	33 Whakatiki Street - Private Bag 908 Upper Hutt - New Zealand		
Telephone	:	0800 800 543		
Emergency telephone number		0800 764 766 (0800 POISON) 0800 243 622 (0800 CHEMCALL)		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the chemical and restrictions on use				
Recommended use Restrictions on use	:	Veterinary product Not applicable		

Section 2: Hazard identification

GHS Classification Skin corrosion/irritation	:	Category 1B
Serious eye damage/eye irri- tation	:	Category 1
Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3
Specific target organ toxicity - repeated exposure	:	Category 2 (Bone marrow)
Hazardous to the aquatic environment - chronic hazard	:	Category 2

GHS label elements



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	rd pictograms al word	: Danger	
Ű	rd statements	: H314 Causes H317 May cau H334 May cau difficulties if inl H335 May cau H361 Suspect H373 May cau prolonged or re	severe skin burns and eye damage. se an allergic skin reaction. se allergy or asthma symptoms or breathing haled. se respiratory irritation. ed of damaging fertility or the unborn child. se damage to organs (Bone marrow) through epeated exposure. 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 P272 Contami the workplace. P273 Avoid rel P280 Wear pro-	reathe mist or vapours. in thoroughly after handling. o outdoors or in a well-ventilated area. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		Do NOT induc CENTER/ doct P303 + P361 + immediately al shower. Immed P304 + P340 + and keep com POISON CEN P305 + P351 + water for seven and easy to do CENTER/ doct P308 + P313 I attention. P333 + P313 I vice/ attention.	 P P353 + P310 IF ON SKIN (or hair): Take off I contaminated clothing. Rinse skin with water or diately call a POISON CENTER/ doctor. P P310 IF INHALED: Remove person to fresh air fortable for breathing. Immediately call a TER/ doctor. P P338 + P310 IF IN EYES: Rinse cautiously with ral minutes. Remove contact lenses, if present O. Continue rinsing. Immediately call a POISON tor. F exposed or concerned: Get medical advice/ f skin irritation or rash occurs: Get medical ad- f experiencing respiratory symptoms: Call a



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P391 Collect spillage. **Storage:** P405 Store locked up. **Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture :	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
sulfadiazine	68-35-9	20
Trimethoprim	738-70-5	4
Sodium hydroxide	1310-73-2	3
2,2'-Iminodiethanol	111-42-2	0.6
Sodium metabisulphite	7681-57-4	0.1

Section 4: First-aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. 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 centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.



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	important symptoms iffects, both acute and ed	Causes serious May cause aller ties if inhaled. May cause resp Suspected of da May cause dam exposure. Causes severe Causes digestiv Excessive expo other respirator	rgy or asthma symptoms or breathing difficul- biratory irritation. amaging fertility or the unborn child. hage to organs through prolonged or repeated burns. ve tract burns. bsure may aggravate preexisting asthma and y disorders (e.g. emphysema, bronchitis, reac-
Prote	ction of first-aiders	: First Aid respon and use the rec	sfunction syndrome). Inders should pay attention to self-protection, commended personal protective equipment tial for exposure exists (see section 8).
Notes	s to physician		atically and supportively.

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	:	Carbon oxides Metal oxides Nitrogen oxides (NOx)
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 firefighters Hazchem Code	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 2R

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 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



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	nods and materials for ainment and cleaning up	 Local authoritie cannot be contained Soak up with in For large spills, ment to keep m be pumped, sto Clean up remained Local or national posal of this male employed in the mine which reg Sections 13 and 	bose of contaminated wash water. s should be advised if significant spillages ained. ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can bre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
Section 7	7: Handling and storage	;	
	nnical measures	CONTROLS/PE	g measures under EXPOSURE ERSONAL PROTECTION section.
	I/Total ventilation	ventilation.	tilation is unavailable, use with local exhaust
Advi	ce on safe handling	: Do not get on s	•

•	Do not get on skin or olothing.
	Do not breathe mist or vapours.

E	o not swallow.	

- Do not get in eyes. Wash skin thoroughly after handling.
- Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-

sessment Keep container tightly closed. Already sensitised individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease,

should consult their physician regarding working with respiratory irritants or sensitisers.

Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of

engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.



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Condi	tions for sofe storage		labelled containers
Conditions for safe storage		Store locked up. Keep tightly close Keep in a cool, w	labelled containers. ed. rell-ventilated place. nce with the particular national regulations.
Materi	als to avoid		the following product types: stances and mixtures s

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	WES-Ceiling	2 mg/m3	NZ OEL
		С	2 mg/m3	ACGIH
2,2'-Iminodiethanol	111-42-2	WES-TWA	3 ppm 13 mg/m3	NZ OEL
	Further inform	Further information: Skin absorption		
		TWA (Inhal- able fraction and vapor)	1 mg/m3	ACGIH
Sodium metabisulphite	7681-57-4	WES-TWA	5 mg/m3	NZ OEL
	Further inform	Further information: Skin sensitiser, Respiratory sensitiser		
		TWA	5 mg/m3	ACGIH

Components 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 :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
Filter type : Hand protection	Particulates type		



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Eye protection		:	If the work environ mists or aerosols, Wear a faceshield	tes with side shields or goggles. Inment or activity involves dusty conditions, wear the appropriate goggles. If or other full face protection if there is a a contact to the face with dusts, mists, or			
Skin	Skin and body protection		: Work uniform or laboratory coat.				
Section 9	9: Physical and chemica	l pr	operties				
Арре	earance	:	liquid				
Colo	ur	:	off-white to beige				
Odo	ur	:	No data available	9			
Odo	ur Threshold	:	No data available)			
pН		:	10.0 - 10.5				
Melti	ing point/freezing point	:	No data available)			
Initia rang	I boiling point and boiling e	:	No data available				
Flas	h point	:	No data available)			
Evap	poration rate	:	No data available	9			
Flam	nmability (solid, gas)	:	Not applicable				
Flam	nmability (liquids)	:	No data available	9			
	er explosion limit / Upper mability limit	:	No data available				
	er explosion limit / Lower mability limit	:	No data available	9			
Vapo	our pressure	:	No data available	9			
Rela	tive vapour density	:	No data available)			
Rela	tive density	:	No data available)			
Dens	sity	:	No data available)			
	bility(ies) Vater solubility	:	No data available	2			
Parti	tion coefficient: n-	:	Not applicable				



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	nol/water -ignition temperature	:	No data available	e
Decomposition temperature		:	No data available	9
Visc V	osity iscosity, kinematic	:	No data available	9
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Parti	cle size	:	Not applicable	

Section 10: Stability and reactivity

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

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
	:

Sunaulazine.		
Acute oral toxicity	:	LD50 (Mouse): 1,500 mg/kg



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Acute	e dermal toxicity	:	LD50 (Rat): > 5,00 Remarks: Based o	00 mg/kg on data from similar materials
	e toxicity (other routes of nistration)	:	LD50 (Rat): 880 n Application Route	
			LD50 (Mouse): 18 Application Route	
Trim	ethoprim:			
Acute	e oral toxicity	:	LD50 (Rat): 1,500) - 5,300 mg/kg
			LD50 (Mouse): 1,	910 - 7,000 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 400 - Application Route	
			LD50 (Dog): 90 m Application Route	
			LD50 (Mouse): 13 Application Route	
II Sodi	um hydroxide:			
	e oral toxicity	:	Acute toxicity esti Method: Expert ju Remarks: Based o	
Acute	e inhalation toxicity	:	Assessment: Corr	rosive to the respiratory tract.
Acute	e dermal toxicity	:	Acute toxicity estin Method: Expert ju Remarks: Based o	
11 2.2'-l	minodiethanol:			
	e oral toxicity	:	LD50 (Rat): 1,600) mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat, male): Exposure time: 4 Test atmosphere:	h
Sodi	um metabisulphite:			
	e oral toxicity	:	LD50 (Rat): 1,540 Method: OECD Te	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.5 Exposure time: 4 Test atmosphere:	h



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Ш			Remarks: Base	ed on data from similar materials
Acute	dermal toxicity	:		2,000 mg/kg Test Guideline 402 ed on data from similar materials
Skin d	corrosion/irritation			
Cause	es severe burns.			
<u>Comp</u>	oonents:			
	liazine:			
Result Rema		:	Skin irritation Based on data	from similar materials
Sodiu Result	m hydroxide:		Corrosive after	3 minutes or less of exposure
INCESU	L .	•	Conosive aller	
	ninodiethanol:			
Specie Result		:	Rabbit Skin irritation	
	m metabisulphite:			
Result Rema		:	Skin irritation Based on natio	nal or regional regulation.
Serio	us eye damage/eye i	irritatio	on	
Cause	es serious eye damag	je.		
<u>Comp</u>	oonents:			
	liazine:			
Specie Result		:	Rabbit	s, reversing within 7 days
Rema		:		from similar materials
Sodiu	m hydroxide:			
Result	t	:	Irreversible effe	
Rema	rks	:	Based on skin o	corrosivity.
2,2'-In	ninodiethanol:			
Specie	es	:	Rabbit	
Result	t	:	Irreversible effe	ects on the eye
	m metabisulphite:			
Specie	es	:	Rabbit	



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Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

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

Components:

sulfadiazine:

Test Type : Species : Result : Remarks :	Maximisation Test
Species :	Guinea pig
Result :	Not a skin sensitizer.
Remarks :	Based on data from similar materials

Trimethoprim:

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Test Type Exposure routes Species Result	: Not a skin sensitizer.

Sodium hydroxide:

Test Type : Exposure routes : Result :	Human repeat insult patch test (HRIPT)
Exposure routes :	Skin contact
Result :	negative

2,2'-Iminodiethanol:

Test Type Exposure routes Species Method Result	 Maximisation Test Skin contact Guinea pig OECD Test Guideline 406 negative
Sodium metabisulphite: Assessment	: Probability or evidence of skin sensitisation in humans

Remarks	: Based on national or regional regulation.
Assessment Remarks	May cause sensitisation by inhalation.Based on national or regional regulation.



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Chro	nic toxicity			
	n cell mutagenicity lassified based on ava	ailabla	information	
	ponents:	allable	information.	
sulfa	diazine:			
Geno	otoxicity in vitro	:	Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials
			Test system: C Result: negative	omosomal aberration hinese hamster ovary cells e d on data from similar materials
II				
	e thoprim: otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			Test Type: Chro Result: negative	omosomal aberration e
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
				A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e
Geno	otoxicity in vivo	:	Test Type: Micr Species: Rat Result: negative	
			Test Type: Chro Species: Huma Result: negative	
11 2,2'-li	minodiethanol:			
'	otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			Test Type: In vi Result: negative	tro mammalian cell gene mutation test e
			Test Type: Chro Result: negative	omosome aberration test in vitro e
			Test Type: In vi	tro sister chromatid exchange assay in mam-



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		malian Result:	cells negative
Genc	otoxicity in vivo	cytoger Species Applica	/pe: Mammalian erythrocyte micronucleus test (in vivo netic assay) s: Mouse ation Route: Skin contact negative
Sodi	um metabisulphite:		
Geno	otoxicity in vitro		/pe: Bacterial reverse mutation assay (AMES) negative
		Method	/pe: In vitro mammalian cell gene mutation test d: OECD Test Guideline 476 negative
Genc	otoxicity in vivo	cytoger Species Applica Methoo Result:	ype: Mammalian erythrocyte micronucleus test (in vivo netic assay) s: Mouse ation Route: Subcutaneous d: OECD Test Guideline 474 negative ks: Based on data from similar materials
	inogenicity		
	lassified based on ava ponents:	llable informat	tion.
2,2'-l	minodiethanol:		
Expo	cation Route	: Mouse : Skin co	
Resu	sure time It	: 103 we : positive	
Resu Rema	lt	: positive	9
Rema Spec Appli	It arks ies cation Route sure time	: positive : The me	e echanism or mode of action may not be relevant in hu- ontact eeks
Rema Spec Appli Expo Resu	It arks ies cation Route sure time It nogenicity - Assess-	 positive The memory mans. Rat Skin co 103 we negative 	e echanism or mode of action may not be relevant in hu- ontact reks re of evidence does not support classification as a car-
Rema Spec Appli Expo Resu Carci ment	It arks ies cation Route sure time It nogenicity - Assess-	: positive : The me mans. : Rat : Skin co : 103 we : negativ : Weight	e echanism or mode of action may not be relevant in hu- ontact reks re of evidence does not support classification as a car-



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Resu Rema Repre		: ne : Ba		from similar materials d.
	ponents: diazine:			
	ts on foetal develop-	SI AI G R	esult: Embryo	e
Trime	ethoprim:			
Effect	Effects on fertility			
Effect ment	Effects on foetal develop- ment		esult: Effects	ute: Oral I Toxicity: LOAEL: 70 mg/kg body weight
		Sj Aj Di Ri	esult: Embryo	
		S A D		
		SI AI D		ster



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			bit
Repro sessr	oductive toxicity - As- nent	: Suspected of	damaging the unborn child.
2,2'-l	minodiethanol:		
Effec	ts on fertility	Species: Rat Application R	ne-generation reproduction toxicity study oute: Ingestion D Test Guideline 443 ve
Effec ment	ts on foetal develop-	Species: Rat Application R	ne-generation reproduction toxicity study oute: Ingestion D Test Guideline 443 ve
Repro sessr	oductive toxicity - As- nent		ce of adverse effects on sexual function and r on development, based on animal experiments.
Sodiu	um metabisulphite:		
	ts on fertility	Species: Rat	nree-generation study oute: Ingestion ive
Effec ment	ts on foetal develop-	Species: Rab	oute: Ingestion
	F - single exposure cause respiratory irritati	on.	
Com	ponents:		
sulfa	diazine:		
Asse	ssment	: May cause re	spiratory irritation.

STOT - repeated exposure

May cause damage to organs (Bone marrow) through prolonged or repeated exposure.



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Trime Targe	ponents: ethoprim: et Organs ssment	: Bone marrow : Causes dama exposure.	ge to organs through prolonged or repeated
Expos Targe	minodiethanol: sure routes et Organs ssment	: Shown to proc	l, Liver, Nervous system duce significant health effects in animals at con- >10 to 100 mg/kg bw.
Targe	sure routes et Organs ssment		st/mist/fume) l duce significant health effects in animals at con- >0.02 to 0.2 mg/l/6h/d.
Targe	sure routes et Organs ssment		Kidney duce significant health effects in animals at con- >20 to 200 mg/kg bw.
Com Trime Speci NOAE LOAE Applic Expos	ΞL	: Rat : 100 mg/kg : 300 mg/kg : Oral : 6 Months : Bone marrow,	, Liver, Pituitary gland, Thyroid
Expos		: Rat : 300 mg/kg : Oral : 3 Months : Bone marrow	
Expo	ΞL	: Dog : 2.5 mg/kg : 45 mg/kg : Oral : 3 Months : Blood, Thyroid	d

2,2'-Iminodiethanol:



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		: Rat, female : 14 mg/kg : Ingestion : 13 Weeks	
	EL cation Route sure time	: Rat : 0.015 mg/l : inhalation (du : 90 Days : OECD Test G	
		: Rat : 32 mg/kg : Skin contact : 13 Weeks	
Speci NOAE LOAE Applic	EL	: Rat : 110 mg/kg : 220 mg/kg : Ingestion : 104 Weeks	
Not c	ration toxicity lassified based on ava rience with human e		
<u>Com</u>	oonents:		
Gene	diazine: ral Information	: May cause ey	e, skin, and respiratory tract irritation.
Inges	ethoprim: tion	Symptoms: A	s: Bone marrow bdominal pain, Nausea, Vomiting, skin rash, adache, mental depression, confusion
Section 1	2: Ecological inform	ation	
Ecoto	oxicity		
<u>Com</u>	ponents:		
sulfa	diazine:		

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 : EC50 (Daphnia magna (Water flea)): > 100 mg/l



sion	Revision Date: 30.09.2023		0S Number: 37558-00019	Date of last issue: 04.04.2023 Date of first issue: 08.06.2017
aquati	c invertebrates		Exposure time: Method: OECD	48 h Test Guideline 202
Toxicity to algae/aquatic plants		:	Exposure time:	a flos-aquae): 17 mg/l 72 h Test Guideline 201
			Exposure time:	na flos-aquae): 3.9 mg/l 72 h Test Guideline 201
			mg/l Exposure time:	irchneriella subcapitata (green algae)): > 1 72 h Test Guideline 201
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 0.1 72 h Test Guideline 201
			EC50 (Microcys Exposure time: Method: ISO 86	
	ctor (Acute aquatic tox-	:	1	
	ty to daphnia and other c invertebrates (Chron- city)	:	Exposure time:	i magna (Water flea)): 6.2 mg/l 21 d Test Guideline 211
	ctor (Chronic aquatic	:	1	
toxicity Toxicit	y) ty to microorganisms	:		
Trime	thoprim:			
Toxicit	ty to fish	:	LC50 (Pimepha Exposure time:	es promelas (fathead minnow)): 100 mg/l 96 h
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time:	magna Straus): 92 mg/l 48 h



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Toxicit plants	ty to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (microalgae)): 80.3 ? h
			NOEC (Pseudokir mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 16 ? 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
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Zebrafish) Exposure time: 21	
	ty to daphnia and other c invertebrates (Chron- city)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 6 mg/l d
	ty to microorganisms	:	EC10: 16.7 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			EC50: > 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	hrs ation inhibition
11 2.2'-In	ninodiethanol:			
	ty to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 460 mg/l 3 h
	ty to daphnia and other c invertebrates	:	EC50 (Ceriodaphi Exposure time: 48	nia dubia (water flea)): 30.1 mg/l 3 h
Toxicit 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
aquati	ty to daphnia and other c invertebrates (Chron-	:	EC10 (Daphnia m Exposure time: 21	agna (Water flea)): 1.05 mg/l d
ic toxic Toxicit	city) ty to microorganisms	:	EC10 (activated s Exposure time: 30	ludge): > 1,000 mg/l) min



rsion)	Revision Date: 30.09.2023	-	OS Number: 37558-00019	Date of last issue: 04.04.2023 Date of first issue: 08.06.2017		
			Method: OECD	Test Guideline 209		
	um metabisulphite:					
Toxic	ity to fish	:	LC50 (Oncorhyr Exposure time:	nchus mykiss (rainbow trout)): 178 mg/l 96 h		
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 89 mg/l 48 h		
Toxic plants	ity to algae/aquatic	:	ErC50 (Desmoo Exposure time:	lesmus subspicatus (green algae)): 43.8 mg 72 h		
			EC10 (Desmode Exposure time:	esmus subspicatus (green algae)): 33.3 mg. 72 h		
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: Method: OECD	erio (zebra fish)): >= 316 mg/l 34 d Test Guideline 210 d on data from similar materials		
aquat	ity to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	ı magna (Water flea)): >= 10 mg/l 21 d		
	ic toxicity) Toxicity to microorganisms		EC10 (Pseudomonas putida): 30.8 mg/l Exposure time: 17 h			
Persi	stence and degradabili	ity				
Com	oonents:					
sulfa	diazine:					
Biode	gradability	:	Biodegradation: Exposure time:			
Trime	ethoprim:					
	gradability	:	Biodegradation: Exposure time:			
			Biodegradation: Exposure time:			

2,2'-Iminodiethanol:



Sulfadiazine (20%) / Trimethoprim (4%) Liquid Formulation

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Biode	egradability	:	Result: Readily bi	odegradable.
			Biodegradation: 9 Exposure time: 28	93 %
Bioa	ccumulative potential			
Com	ponents:			
sulfa	diazine:			
	ion coefficient: n- ol/water	:	log Pow: 0.12	
	ethoprim:			
	Partition coefficient: n- octanol/water		log Pow: 0.91	
2,2'-l	minodiethanol:			
	ion coefficient: n- ol/water	:	log Pow: -2.46 Method: OECD T	est Guideline 107
	lity in soil ata available			
	r adverse effects ata available			

Section 13: Disposal considerations

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

Section 14: Transport information

International Regulations

UNRTDG UN number Proper shipping name Class Packing group Labels Environmentally bazardous		UN 1824 SODIUM HYDROXIDE SOLUTION 8 II 8 ves
Environmentally hazardous	:	yes
IATA-DGR UN/ID No.	:	UN 1824



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Class Pack Labe Pack aircra Pack	ing group ls ing instruction (cargo		Sodium hydroxide 8 II Corrosive 855 851	esolution
UN n Propo Class Pack Labe EmS	ing group		UN 1824 SODIUM HYDRC (sulfadiazine, Trin 8 II 8 F-A, S-B yes	XIDE SOLUTION nethoprim)

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

Not applicable for product as supplied.

National Regulations

NZS 5433		
UN number	:	UN 1824
Proper shipping name	:	SODIUM HYDROXIDE SOLUTION
Class	:	8
Packing group	:	11
Labels	:	8
Hazchem Code	:	2R
Marine pollutant	:	yes

Special precautions for user

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

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

HSNO Approval Number

not allocated

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

AICS :		not determined
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DSL : not determined



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IEC	SC	:	not determined		
Section	16: Other information				
Rev	rision Date	:	30.09.2023		
Fur	ther information				
com	Sources of key data used to compile the Safety Data Sheet			data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/	
	Items where changes have bee document by two vertical lines.		made to the previo	ous version are highlighted in the body of this	
Date	Date format		dd.mm.yyyy		
Full	text of other abbreviat	ions	;		
ACC NZ	GIH OEL	:		eshold Limit Values (TLV) orkplace Exposure Standards for Atmospher-	

ACGIH / TWA ACGIH / C NZ OEL / WES-TWA	:	8-hour, time-weighted average Ceiling limit Workplace Exposure Standard - Time Weighted average
NZ OEL / WES-Ceiling	:	Workplace Exposure Standard - Ceiling

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, Evalua-



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tion, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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