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

Product name Other means of identification		Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochlo- ride / Piroxicam Liquid Formulation No data available
Manufacturer or supplier's d	leta	iils
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 ch	nen	nical and restrictions on use
Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

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

#### GHS classification in accordance with the Hazardous Products Regulations

Eye irritation	:	Category 2B
Respiratory sensitization	:	Sub-category 1A
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 1A
Specific target organ toxicity - single exposure	:	Category 1 (Nervous system, Heart)
Specific target organ toxicity - repeated exposure	:	Category 1 (Kidney, inner ear, Gastrointestinal tract)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H317 May cause an allergic skin reaction.

culties if inhaled.

H320 Causes eye irritation.

H334 May cause allergy or asthma symptoms or breathing diffi-



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		H370 Causes d H372 Causes d	age fertility or the unborn child. amage to organs (Nervous system, Heart). amage to organs (Kidney, inner ear, Gastroin- rough prolonged or repeated exposure.
Preca	utionary Statements	P202 Do not ha and understood	ecial instructions before use. Indle until all safety precautions have been read I. eathe mist or vapors.
		P264 Wash skii P270 Do not ea P272 Contamin the workplace. P280 Wear prot and face protec	n thoroughly after handling. It, drink or smoke when using this product. ated work clothing should not be allowed out of tective gloves, protective clothing, eye protection
		P304 + P340 IF keep comfortab P305 + P351 + for several minu to do. Continue P308 + P311 IF P333 + P313 If tion. P337 + P313 If P342 + P311 If tor.	<ul> <li>ON SKIN: Wash with plenty of water.</li> <li>INHALED: Remove person to fresh air and le for breathing.</li> <li>P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy rinsing.</li> <li>exposed or concerned: Call a doctor. skin irritation or rash occurs: Get medical atten- eye irritation persists: Get medical attention. experiencing respiratory symptoms: Call a doc- ake off contaminated clothing and wash it before</li> </ul>
		<b>Storage:</b> P405 Store lock	ked up.

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

Substance / Mixture : Mixture



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Com	ponents					
Cher	nical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)		
Benz	zylpenicillin	No data availa- ble	61-33-6	18.33		
Stror	tomycin sulphata	No data availa-	3810-7/-0			

	ble		18.33
Streptomycin sulphate	No data availa- ble	3810-74-0	10.5
Procaine hydrochloride	No data availa- ble	51-05-8	2
Piroxicam	No data availa- ble	36322-90-4	1

#### SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. 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.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	<ul> <li>May cause an allergic skin reaction.</li> <li>Causes eye irritation.</li> <li>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>May damage fertility or the unborn child.</li> <li>Causes damage to organs.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac-</li> </ul>
Protection of first-aiders	:	tive airways dysfunction syndrome). First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment



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when the potential for exposure exist Notes to physician : Treat symptomatically and supportive						
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES		
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
		c hazards during fire	:	Exposure to comb	pustion products may be a hazard to health.	
		ous combustion prod-	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus Metal oxides		
	Specific ods	c extinguishing meth-	:	<ul> <li>Use extinguishing measures that are appropriate to local ci cumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is safe to so.</li> </ul>		
		l protective equipment fighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.	
SEC	TION 6	. ACCIDENTAL RELE	ASI	E MEASURES		
	tive equ	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	
	Enviror	nmental 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 se of contaminated wash water. should be advised if significant spillages	
		ls and materials for ment and cleaning up	:	For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r	a absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ang materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items	



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			employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.				
SECT	ION 7	. HANDLING AND ST	ORAGE				
Т	echnic	cal measures			neasures under EXPOSURE SONAL PROTECTION section.		
L	.ocal/T	otal ventilation		icient ventila	tion is unavailable, use with local exhaust		
A	Advice on safe handling		: Do no Do no Do no Wash Hand practi asses Keep Alread to ast should respir Do no Take	ot get on skir ot breathe m ot swallow. ot get in eyes skin thorou- le in accorda ce, based or sment container tig dy sensitized hma, allergie d consult the atory irritant ot eat, drink of	ghly after handling. nce with good industrial hygiene and safety the results of the workplace exposure		
C	Conditi	ons for safe storage	: Keep Store Keep	in properly I locked up. tightly close	abeled containers. d. ce with the particular national regulations.		
N	/lateria	ls to avoid	: Do no Stron Self-r	ot store with g oxidizing a eactive subs nic peroxides sives	the following product types: gents tances and mixtures		

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal
	Further information: RSEN, DSEN			
		Wipe limit	100 µg/100 cm2	Internal



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	Streptomycin sulphate		3810-74-0	TWA	OEB 2 (>= 100 < 1,000 μg/m3)	Internal
			Further informa	ation: DSEN		
	Procaine hydrochloride		51-05-8	TWA	60 µg/m3 (OEB 3)	Internal
	•			Wipe limit	600 µg/100 cm <sup>2</sup>	Internal
	Piroxicam		36322-90-4	TŴA	100 µg/m3 (OEB 2)	Internal
	Engineering measures	:	technologies t less quick con All engineerin design and op protect produc	o control airborn inections). g controls shoul perated in accorn cts, workers, and	controls and manufac ne concentrations (e.c d be implemented by dance with GMP princ d the environment. require special contai	g., drip- facility ciples to
	Personal protective equipme	ent				
	Respiratory protection Filter type Hand protection Material	:	If adequate lo	essment demon I guidelines, use pe	tilation is not available strates exposures out e respiratory protectio	tside the
	Material	•	Onemicaries	stant gioves		
	Eye protection	:	If the work en mists or aeros Wear a facesh	vironment or act ols, wear the ap nield or other ful	e shields or goggles. tivity involves dusty co ppropriate goggles. I face protection if the the face with dusts, m	ere is a
	Skin and body protection Hygiene measures	:	If exposure to eye flushing s working place When using d Contaminated workplace. Wash contam The effective of engineering co appropriate de industrial hygi	ystems and safe o not eat, drink work clothing s inated clothing I operation of a fa ontrols, proper p egowning and d	ly during typical use, ety showers close to t or smoke. hould not be allowed before re-use. acility should include r bersonal protective eq econtamination proce medical surveillance	he out of the eview of juipment, dures,

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	No data available
Odor	:	No data available



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C	Odor Thr	eshold	:	No data available	
р	н		:	No data available	
		oint/freezing point	:	No data available	
	nitial boi ange	ling point and boiling	:	No data available	
F	lash po	int	:	No data available	
E	Evaporat	ion rate	:	No data available	
F	lammat	oility (solid, gas)	:	Not applicable	
F	lammat	oility (liquids)	:	No data available	
		plosion limit / Upper ility limit	:	No data available	
		plosion limit / Lower ility limit	:	No data available	
V	/apor pr	essure	:	No data available	
R	Relative	vapor density	:	No data available	
R	Relative	density	:	No data available	
D	Density		:	No data available	
S	Solubility Wate	r(ies) r solubility	:	No data available	
	Partition	coefficient: n-	:	Not applicable	
		ion temperature	:	No data available	
D	Decompo	osition temperature	:	No data available	
V	/iscosity Visco	sity, kinematic	:	No data available	
E	Explosive	e properties	:	Not explosive	
C	Dxidizing	properties	:	The substance or	mixture is not classified as oxidizing.
Ν	/lolecula	r weight	:	No data available	



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Particle size		:	Not applicable		
SECTION 10. STABILITY AND REACTIVITY					
Reactivity Chemical stability Possibility of hazardous reac-		:	Stable under nor	a reactivity hazard. mal conditions. trong oxidizing agents.	

tions	
Conditions to avoid	: None known.
Incompatible materials	: Oxidizing agents
Hazardous decomposition	: No hazardous decomposition products are known.
products	

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact						
Acute toxicity						
Not classified based on available	e information.					
Product:						
Acute oral toxicity :	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method					
<u>Components:</u>						
Benzylpenicillin:						
Acute oral toxicity :	LD50 (Rat): 8,000 mg/kg					
	LD50 (Mouse): > 5,000 mg/kg					
Acute toxicity (other routes of : administration)	LD50 (Mouse): 3,500 mg/kg Application Route: Intraperitoneal					
	LD50 (Mouse): 329 mg/kg Application Route: Intravenous					
Streptomycin sulphate:						
Acute oral toxicity :	LD50 (Hamster): 400 mg/kg					
	LD50 (Rat): 430 mg/kg					
	LD50 (Mouse): 25,000 mg/kg					



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	Acute toxicity (other routes of administration)		:	LD50 (Mouse): 85 Application Route	
				LD50 (Mouse): 57 Application Route	
				LD50 (Mouse): 50 Application Route	
			TDLo (Dog): 220 - 440 mg/kg Application Route: Intravenous Symptoms: Lowered blood pressure LDLo (Monkey): 110 mg/kg Application Route: Intravenous		: Intravenous
				TDLo (Monkey): 3 Application Route Symptoms: respire	Subcutaneous
	Procai	ne hydrochloride:			
	Acute	oral toxicity	:	LD50 (Rat): 200 m	ng/kg
				LD50 (Mouse): 35	0 mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): 43 mg Application Route	
				LD50 (Mouse): 33 Application Route	
				LD50 (Dog): 33 m Application Route	
	Piroxi	cam:			
	Acute	oral toxicity	:	LD50 (Rat): 216 m	ng/kg
				LD50 (Dog): 108 r	ng/kg
				LD50 (Hamster): 1	I70 mg/kg
				LD50 (Guinea pig	): 388 mg/kg
				LD50 (Monkey): 1	,000 mg/kg
	Acute	dermal toxicity	:	LD50 (Rat): > 5,00	00 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.



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		us eye damage/eye ir es eye irritation.	ritat	ion	
		onents:			
		tomycin sulphate:			
	Result		:	Mild eye irritation	
	<b>Proca</b> Result	ine hydrochloride:	:	Moderate eye irrit	ation
	Respi	ratory or skin sensiti	izatio	on	
	Skin s	sensitization			
	May c	ause an allergic skin r	eacti	on.	
	•	ratory sensitization ause allergy or asthma	a syn	nptoms or breathing	difficulties if inhaled.
	Comp	onents:			
	Benzy	/lpenicillin:			
	Test T		:	Local lymph node	assay (LLNA)
	Route: Specie	s of exposure	:	Dermal Mouse	
	Result		:	Weak sensitizer	
	Test T		:	Maximization Tes	t
	Route	s of exposure	:	Dermal	
	Specie		:	Guinea pig	
	Result Rema		÷	positive Based on data fro	om similar materials
	Roma		•		
	Result		:	Strong sensitizer	
	Rema	rks	:	Based on human	experience.
	Strept	tomycin sulphate:			
	Test T		:	Human repeat ins	sult patch test (HRIPT)
		s of exposure	:	Dermal	
	Specie Result		:	Humans Weak sensitizer	
	Result	L	•	Weak Sensilizer	
	Proca	ine hydrochloride:			
		s of exposure	:	Dermal	
	Result		:	Sensitizer	ovporionco
	Rema	IKS	:	Based on human Based on data fro	experience. om similar materials



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Germ	cell mutagenicity			
Not cl	assified based on avai	lable	information.	
<u>Comp</u>	oonents:			
Benz	ylpenicillin:			
	cell mutagenicity - ssment	:	Weight of evide cell mutagen.	nce does not support classification as a germ
Strep	tomycin sulphate:			
Geno	toxicity in vitro	:	Test Type: Chro Result: equivoc	omosomal aberration al
Genotoxicity in vivo		:	Test Type: Chro Cell type: Huma Result: negative	
Proca	aine hydrochloride:			
	toxicity in vitro	:	Test Type: Bact Result: equivoc	erial reverse mutation assay (AMES) al
Pirox	icam:			
Geno	toxicity in vivo	:	Test Type: siste Species: Huma Cell type: Huma Result: negative	in lymphocytes
Carci	nogenicity			
	assified based on avai	lable	information.	
Comp	oonents:			
Strep	tomycin sulphate:			
Speci		:	Rat	
Applic NOAE	cation Route	÷	Oral 5 mg/kg body w	eight
Resul		:	negative	eigin
Carcii ment	nogenicity - Assess-	:	Weight of evide cinogen	nce does not support classification as a car-
Repro	oductive toxicity			
•	lamage fertility or the u	Inpor	n child.	
<u>Comp</u>	oonents:			
Benz	ylpenicillin:			
-	s on fertility		Test Type: Fert	1.4.



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				Species: Mouse Result: No effects	on fertility.
				Test Type: Fertilit Species: Rat Result: No effects	
				Test Type: Fertility Species: Rabbit Result: No effects	
	Effects	on fetal development	:	Test Type: Develo Species: Mouse Result: No effects	opment on fetal development.
				Test Type: Develo Species: Rat Result: No effects	opment on fetal development.
				Test Type: Develo Species: Rabbit Result: No effects	opment on fetal development.
	Strepto	omycin sulphate:			
	-	on fertility	:		
	Effects	s on fetal development	:	•	
				Test Type: Develo Species: Rabbit Application Route Developmental To Result: No teratog	: Oral pxicity: NOAEL: 10 mg/kg body weight
	Reprod sessme	luctive toxicity - As- ent	:	May damage the	unborn child.
		ne hydrochloride: luctive toxicity - As- ent	:	May damage the	unborn child.
	<b>Piroxic</b> Effects	am: on fetal development	:	Test Type: Develo	opment



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				oxicity: LOAEL: 10 mg/kg body weight etal toxicity., No teratogenic effects., Fetal
			Symptoms: Fetal Result: Embryo-f growth retardatio	e: Oral oxicity: LOAEL: 30 mg/kg body weight mortality. etal toxicity., No teratogenic effects., Fetal
			Test Type: Deve Species: Rabbit Application Route Developmental T Result: No embry	e: Oral oxicity: NOAEL: 10 mg/kg body weight
	productive toxicity - As- ssment	:	Suspected of dar	maging the unborn child.
	<b>OT-single exposure</b> auses damage to organs (	Nerv	ous system, Heart)	
	omponents:		,	
Та	ocaine hydrochloride: rget Organs sessment	:	Nervous system, Causes damage	
Ca	<b>OT-repeated exposure</b> auses damage to organs ( exposure.	Kidne	ey, inner ear, Gast	rointestinal tract) through prolonged or repeat-
<u>Cc</u>	omponents:			
Та	reptomycin sulphate: rget Organs sessment	:	Kidney, inner ear Causes damage	to organs through prolonged or repeated

exposure.



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	Dirovia				
	<b>Piroxicam:</b> Target Organs Assessment		:	Gastrointestinal tr Causes damage t exposure.	act to organs through prolonged or repeated
	Repeat	ed dose toxicity			
	Compo	onents:			
	Strepto	omycin sulphate:			
		- tion Route ıre time		Rat 100 mg/kg Subcutaneous 72 Days No significant adv	verse effects were reported
	Exposu		:	Cat 200 mg/kg Oral 90 Days inner ear	
	Exposu		: : : :	Dog 44 mg/kg Intramuscular 14 Days inner ear	
	Exposu	tion Route ire time Organs	: : : : : : : : : : : : : : : : : : : :	Dog 50 - 100 mg/kg Intramuscular 20 Days inner ear, Kidney ataxia	
	Exposu	-	: : : : : : : : : : : : : : : : : : : :	Monkey 50 mg/kg 100 mg/kg Intramuscular 5 Days Liver, Kidney	
		- tion Route ıre time	· · · ·	Rat 5 mg/kg Oral 2 y No significant adv	verse effects were reported
	Specie: LOAEL Applica		::	Monkey 25 mg/kg Subcutaneous	



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Exposure time Target Organs Symptoms		:	: 66 Days : Blood, Liver, Kidney : anemia				
Aspi	ration toxicity						
-	classified based on ava	ailable	information.				
Expe	erience with human e	xposu	ire				
<u>Com</u>	ponents:						
Benz	ylpenicillin:						
Inhal		:	Symptoms: Allerg chospasm, skin r	gic reactions, Abdominal pain, bron- ash			
Stre	otomycin sulphate:						
Inhal	ation	:	Target Organs: in Symptoms: hearin Target Organs: K Symptoms: hearin	ng loss idney ng loss			
Skin	contact	:	: Symptoms: skin rash				
	aine hydrochloride:						
Inhal	ation	:	Symptoms: nervo difficulties, Rash, Remarks: May ca Based on clinical Target Organs: H Symptoms: nervo difficulties, Rash,	leart ousness, Dizziness, Convulsions, Breathing Swelling of tissue, irregular heart beat ause harm to the unborn child.			
Piro	kicam:						
Inge	stion	:	Symptoms: Diarrl	astrointestinal tract hea, constipation, flatulence, Headache, Di kin rash, Ulceration, chest pain, Abdominal			

### Ecotoxicity

#### Components:

### Benzylpenicillin:

Toxicity to fish

: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 hrs Method: OECD Test Guideline 203



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		v to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 hrs Method: OECD Test Guideline 202			
	Toxicity plants	v to algae/aquatic	:	EC50 (Raphidoce 100 mg/l Exposure time: 72 Method: OECD Te			
				NOEC (Raphidoco mg/l Exposure time: 72 Method: OECD Te			
				EC50 (blue-green Exposure time: 72 Method: OECD Te	? hrs		
				NOEC (blue-green Exposure time: 72 Method: OECD Te			
	Toxicity	to microorganisms	:	EC50: > 500 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition		
				NOEC: 5 mg/l Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition		
	Strante	muoin quinhoto.					
	Toxicity	omycin sulphate: to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te			
	Toxicity plants	v to algae/aquatic	:	EC50 (Microcystis Exposure time: 72 Method: ISO 8692			
				EC50 (Selenastru Exposure time: 72 Method: OECD Te			
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te			



## Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

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Proc	aine hydrochloride:			
Ecote	oxicology Assessmen	t		
Acute	e aquatic toxicity	:	Toxic effects ca	nnot be excluded
Chror	nic aquatic toxicity	:	Toxic effects ca	nnot be excluded
Pirox	kicam:			
Ecote	oxicology Assessmen	t		
Acute	e aquatic toxicity	:	Toxic effects ca	nnot be excluded
Chror	nic aquatic toxicity	:	Toxic effects ca	nnot be excluded
Persi	istence and degradabi	ility		
Com	ponents:			
Benz	ylpenicillin:			
Biode	egradability	:	Result: Readily Biodegradation Exposure time: Method: OECD	: 70.10 %
Bioa	ccumulative potential			
Com	ponents:			
Strep	otomycin sulphate:			
	ion coefficient: n- ol/water	:	log Pow: -3.2	
Proc	aine hydrochloride:			
	ion coefficient: n- ol/water	:	log Pow: 2.14	
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
No da	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
		handling site for recycling or disposal.
		If not otherwise specified: Dispose of as unused product.



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

#### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Benzylpenicillin, Streptomycin sulphate)
Class	:	9
Packing group	:	
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s.
		(Benzylpenicillin, Streptomycin sulphate)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(Benzylpenicillin, Streptomycin sulphate)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
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**

:	UN 3082
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S.
	(Benzylpenicillin, Streptomycin sulphate)
:	9
:	III
:	9
:	171



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#### Marine pollutant : yes(Benzylpenicillin, Streptomycin sulphate)

#### 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

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

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

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

#### Full text of other abbreviations

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 Sub-



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stances 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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	09/30/2023 mm/dd/yyyy

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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