

Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

Vers 6.0	ion	Revision Date: 06.04.2024		S Number: 9594-00023	Date of last issue: 30.09.2023 Date of first issue: 13.02.2018
Sect	tion 1: l	dentification			
	Product identifier		•		Streptomycin Sulphate / Procaine Hydrochlo- iquid Formulation
	Recom	mended use of the ch	nemi	ical and restriction	ons on use
	Recommended use Restrictions on use Manufacturer or supplier's d		:	Veterinary produce Not applicable	ct
			letai	ls	
	Compa	ny	:	MSD	
	Address	6	:	50 Tuas West Dr Singapore - Sing	-
	Telepho	one	:	+1-908-740-4000)
	Emerge	ency telephone number	:	65 6697 2111 (24	4/7/365)
	E-mail a	address	:	EHSDATASTEW	ARD@msd.com

Section 2: Hazard identification

Classification of the substance or mixture							
Serious eye damage/eye irri- tation	:	Category 2					
Respiratory sensitisation	:	Category 1					
Skin sensitisation	:	Category 1					
Reproductive toxicity	:	Category 1A					
Specific target organ toxicity - single exposure	:	Category 2 (Nervous system, Heart)					
Specific target organ toxicity - repeated exposure	:	Category 1 (Kidney, inner ear)					
Specific target organ toxicity - repeated exposure	:	Category 2 (Gastrointestinal tract)					
Short-term (acute) aquatic hazard	:	Category 1					



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Long- hazar	term (chronic) aquatic d	: Category 1	
	Label elements, inclu d pictograms	ding precautionary s	statements
			¥2
Signa	l word	: Danger	V
Hazar	rd statements	H319 Causes H334 May cau difficulties if inh H360D May da H371 May cau H372 Causes prolonged or re H373 May cau through prolon	se an allergic skin reaction. serious eye irritation. se allergy or asthma symptoms or breathing naled. amage the unborn child. se damage to organs (Nervous system, Hear damage to organs (Kidney, inner ear) through epeated exposure. se damage to organs (Gastrointestinal tract) ged or repeated exposure. ic to aquatic life with long lasting effects.
Preca	utionary statements	P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P272 Contamin the workplace. P273 Avoid rel P280 Wear pro- tion/ face prote	reathe mist or vapours. in thoroughly after handling. at, drink or smoke when using this product. nated work clothing should not be allowed out
		P304 + P340 I keep comfortal P305 + P351 + for several min easy to do. Co P308 + P311 I CENTER/ doct	F exposed or concerned: Call a POISON tor. f skin irritation or rash occurs: Get medical ad



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		tention. P342 + P311 If POISON CENT	ake off contaminated clothing and wash it before
		Storage: P405 Store loc	ked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 3%

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzylpenicillin	61-33-6	>= 10 -< 20
Streptomycin sulphate	3810-74-0	>= 10 -< 20
Procaine hydrochloride	51-05-8	>= 1 -< 10
Piroxicam	36322-90-4	>= 1 -< 3

Section 4: First-aid measures

Description of necessary 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.		
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.		



/ersion 3.0	Revision Date: 06.04.2024	SDS Number: 2449594-00023	Date of last issue: 30.09.2023 Date of first issue: 13.02.2018		
	se of eye contact allowed	 In case of con for at least 15 If easy to do, r Get medical a If swallowed, I Get medical a Rinse mouth t 	ean shoes before reuse. tact, immediately flush eyes with plenty of water minutes. remove contact lens, if worn. ttention. DO NOT induce vomiting.		
Most	important symptoms a	and effects, both a	cute and delayed		
Risks Prote	ction of first-aiders	Causes seriou May cause all ties if inhaled. May damage to May cause da Causes dama exposure. Excessive exp other respirato tive airways dy First Aid respo and use the respirato	May damage the unborn child. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome).		
Indic	ation of any immediate	medical attention	and special treatment needed		
Treat	•	: Treat symptomatically and supportively.			
Exting Suita	: Fire-fighting measure guishing media ble extinguishing media itable extinguishing	: Water spray Alcohol-resista Carbon dioxid Dry chemical : None known.			
media		. None known.			
Spec	ial hazards arising fror	n the substance o	r mixture		
fightir	ific hazards during fire- ng rdous combustion prod-	 Exposure to construct to construct the second second	es (NOx) s		



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Special protective actions for fire-fighters

Special protective equipment for firefighters Specific extinguishing meth- ods	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. 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.
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Section 6: Accidental release measures

	quipment and emergency procedures Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containr	nent and cleaning up
Methods for cleaning up :	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable.

Section 7: Handling and storage

Precautions for safe handling						
Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.				
Advice on safe handling	:	Do not get on skin or clothing.				

certain local or national requirements.

Sections 13 and 15 of this SDS provide information regarding



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	giene measures	Do not swallo Do not get in a Wash skin the Handle in acc practice, base sessment Keep containe Already sensi to asthma, all should consul tory irritants o Do not eat, dr Take care to p environment. If exposure to flushing syste place. When using d Contaminated workplace. Wash contam The effective engineering c appropriate de industrial hygi	eyes. proughly after handling. ordance with good industrial hygiene and safety ad on the results of the workplace exposure as- er tightly closed. tised individuals, and those susceptible ergies, chronic or recurrent respiratory disease, t their physician regarding working with respira- r sensitisers. ink or smoke when using this product. prevent spills, waste and minimize release to the chemical is likely during typical use, provide eye ms and safety showers close to the working o not eat, drink or smoke. I work clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, ene monitoring, medical surveillance and the strative controls.
	nditions for safe storage	: Keep in prope	rly labelled containers.
	nditions for safe storage	Store locked	
Mat	terials to avoid		dance with the particular national regulations. vith the following product types:

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

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



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I			Wipe limit	100 µg/100 cm2	Internal
I	Streptomycin sulphate	3810-74-0	TWA	OEB 2 (>= 100 <	Internal
				1,000 µg/m3)	
		Further informa	ation: DSEN		
	Procaine hydrochloride	51-05-8	TWA	60 µg/m3 (OEB 3)	Internal
			Wipe limit	600 µg/100 cm ²	Internal
	Piroxicam	36322-90-4	TWA	100 µg/m3 (OEB	Internal
				2)	

Appropriate engineering : control 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.
Individual protection measure	es, such as personal protective equipment (PPE)
Eye/face protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
•	Work uniform or laboratory coat. 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 Material :	Particulates type Chemical-resistant gloves

Section 9: Physical and chemical properties

Appearance	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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Flash	point	:	No data available	9
Evapo	ration rate	:	No data available	9
Flamm	nability (solid, gas)	:	Not applicable	
Flamm	nability (liquids)	:	No data available	9
	explosion limit / Upper ability limit	:	No data available	e
	explosion limit / Lower ability limit	:	No data available	9
Vapou	r pressure	:	No data available	9
Relativ	ve vapour density	:	No data available	9
Relativ	ve density	:	No data available	9
Densit	У	:	No data available	9
	lity(ies) ter solubility	:	No data available	9
	on coefficient: n- bl/water	:	Not applicable	
	gnition temperature	:	No data available	9
Decon	nposition temperature	:	No data available	9
Viscos Vis	ity cosity, kinematic	:	No data available	e
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.
Molec	ular weight	:	No data available	9
Particl Particl	e characteristics e size	:	Not applicable	

Section 10: Stability and reactivity

Reactivity

: Not classified as a reactivity hazard.



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Possil tions Condi Incom Hazar	ical stability bility of hazardous reac- tions to avoid patible materials dous decomposition	:	Can react with None known. Oxidizing agent	ormal conditions. strong oxidizing agents. ts decomposition products are known.
produ	cts			
ection 11	: Toxicological inform	atic	on	
Inform expos	ation on likely routes of ure	:	Inhalation Skin contact Ingestion Eye contact	
	toxicity			
	assified based on availa	ble	information.	
<u>Produ</u> Acute	i <u>ct:</u> oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
Comp	oonents:			
Benzy	/lpenicillin:			
	oral toxicity	:	LD50 (Rat): 8,00	00 mg/kg
			LD50 (Mouse): :	> 5,000 mg/kg
	toxicity (other routes of istration)	:		3,500 mg/kg te: Intraperitoneal
			LD50 (Mouse): 3 Application Rou	
Strop	tomycin sulphate:			
Such				

LD50 (Rat): 430 mg/kg

Acute toxicity (other routes of :

administration)

LD50 (Mouse): 25,000 mg/kg

LD50 (Mouse): 85 - 111 mg/kg

Application Route: Intravenous

LD50 (Mouse): 575 - 610 mg/kg Application Route: Intraperitoneal

LD50 (Mouse): 500 - 600 mg/kg



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		LDLo (Monkey): 1 Application Route TDLo (Monkey): 3	- 440 mg/kg : Intravenous red blood pressure 10 mg/kg : Intravenous
		TDLo (Dog): 220 Application Route Symptoms: Lower LDLo (Monkey): 1 Application Route TDLo (Monkey): 3	- 440 mg/kg : Intravenous red blood pressure 10 mg/kg : Intravenous
		Application Route Symptoms: Lower LDLo (Monkey): 1 Application Route TDLo (Monkey): 3	:: Intravenous red blood pressure 10 mg/kg :: Intravenous
		Application Route TDLo (Monkey): 3	: Intravenous
			30 - 70 mg/kg
		Symptoms: respir	: Subcutaneous
e hydrochloride:			
al toxicity	:	LD50 (Rat): 200 n	ng/kg
		LD50 (Mouse): 35	50 mg/kg
xicity (other routes of ration)	:	LD50 (Rat): 43 mg Application Route	
,		LD50 (Mouse): 33 Application Route	
		LD50 (Dog): 33 m Application Route	
ım:			
al toxicity	:	LD50 (Rat): 216 n	ng/kg
		LD50 (Dog): 108	mg/kg
		LD50 (Hamster):	170 mg/kg
		LD50 (Guinea pig): 388 mg/kg
		LD50 (Monkey): 1	,000 mg/kg
ermal toxicity	:		
	xicity (other routes of ration)	xicity (other routes of : ration) m: al toxicity :	LD50 (Mouse): 35 xicity (other routes of : LD50 (Rat): 43 m Application Route LD50 (Mouse): 33 Application Route LD50 (Dog): 33 m Application Route ID50 (Dog): 33 m Application Route ID50 (Dog): 108 LD50 (Dog): 108 LD50 (Hamster): LD50 (Guinea pig LD50 (Monkey): 1 ermal toxicity : LD50 (Rat): > 5,0

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.



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Com	oononts:					
	<u>oonents:</u>					
Resu	tomycin sulphate: It	: Mild eye irrita	tion			
Proca Resu	aine hydrochloride: It	: Moderate eye irritation				
Resp	iratory or skin sensit	sation				
May o Resp	sensitisation cause an allergic skin re iratory sensitisation cause allergy or asthma		thing difficulties if inhaled.			
-	ponents:		5			
Benz	ylpenicillin:					
Test Expos Speci Resu	sure routes es	: Local lymph r : Dermal : Mouse : Weak sensiti	node assay (LLNA) zer			
Test Expos Speci Resu Rema	sure routes les lt	: Maximisation : Dermal : Guinea pig : positive : Based on dat	Test a from similar materials			
Resu Rema		: Strong sensit : Based on hu	izer man experience.			
Test	sure routes es	: Human repea : Dermal : Humans : Weak sensitiz	at insult patch test (HRIPT) zer			
			nan experience. a from similar materials			



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Gorm	cell mutagenicity		
	assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Germ	ylpenicillin: cell mutagenicity - ssment	: Weight of evide cell mutagen.	ence does not support classification as a gern
Strep	tomycin sulphate:		
Geno	toxicity in vitro	: Test Type: Chr Result: equivoo	omosomal aberration cal
Geno	toxicity in vivo		omosomal aberration an lymphocytes e
Proca	aine hydrochloride:		
Geno	toxicity in vitro	: Test Type: Bac Result: equivor	terial reverse mutation assay (AMES) cal
Pirox	icam:		
Geno	toxicity in vivo	Species: Huma	an lymphocytes
	nogenicity assified based on ava	ilable information	
	onents:		
	tomycin sulphate:		
Speci	es cation Route L	: Rat : Oral : 5 mg/kg body v : negative	veight
Carcir ment	nogenicity - Assess-	: Weight of evide cinogen	ence does not support classification as a car-
May c	oductive toxicity lamage the unborn ch	ild.	
Comp	oonents:		



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Effec	ts on fertility	:	Test Type: Fertili Species: Mouse Result: No effects	
			Test Type: Fertili Species: Rat Result: No effects	
			Test Type: Fertili Species: Rabbit Result: No effects	
Effec ment	ts on foetal develop-	:	Test Type: Devel Species: Mouse Result: No effects	opment s on foetal development
			Test Type: Devel Species: Rat Result: No effects	opment s on foetal development
			Test Type: Devel Species: Rabbit Result: No effects	opment s on foetal development
Strep	otomycin sulphate:			
Effec	ts on fertility	:		
Effect ment	ts on foetal develop-	:		
			Test Type: Devel Species: Rabbit Application Route Developmental T Result: No terato	e: Oral oxicity: NOAEL: 10 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	:	May damage the	unborn child.
Proc	aine hydrochloride:			
Repro sessr	oductive toxicity - As- nent	:	May damage the	unborn child.



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Piroxic	cam:			
	on foetal develop-	:	Test Type: Develo	opment
ment		-	Species: Rat Application Route Developmental To	: Oral oxicity: LOAEL: 10 mg/kg body weight betal toxicity, No teratogenic effects, Fetal
			Symptoms: foetal Result: Embryo-fo growth retardation	: Oral oxicity: LOAEL: 30 mg/kg body weight mortality betal toxicity, No teratogenic effects, Fetal
			Test Type: Develo Species: Rabbit Application Route Developmental To Result: No embry	: Oral oxicity: NOAEL: 10 mg/kg body weight
Reproc sessm	ductive toxicity - As- ent	:	Suspected of dam	naging the unborn child.
	- single exposure ause damage to organs	s (Ne	ervous system. Hea	art).
-	onents:			
	ne hydrochloride:			
	Organs	:	Nervous system, Causes damage t	

STOT - repeated exposure

Causes damage to organs (Kidney, inner ear) through prolonged or repeated exposure. May cause damage to organs (Gastrointestinal tract) through prolonged or repeated exposure.

Components:

Streptomycin sulphate:

Target Organs:Assessment:	Kidney, inner ear Causes damage to organs through prolonged or repeated
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	icam: it Organs ssment		exposure. Gastrointestinal tr Causes damage	act o organs through prolonged or repeated
II	ated dose toxicity		exposure.	
Strep Speci NOAE Applic	EL cation Route sure time	: : : : : : : : : : : : : : : : : : : :	Rat 100 mg/kg Subcutaneous 72 Days No significant adv	verse effects were reported
Expos			Cat 200 mg/kg Oral 90 Days inner ear	
Expos		:	Dog 44 mg/kg Intramuscular 14 Days inner ear	
Expos	L cation Route sure time t Organs		Dog 50 - 100 mg/kg Intramuscular 20 Days inner ear, Kidney ataxia	
Expos	EL		Monkey 50 mg/kg 100 mg/kg Intramuscular 5 Days Liver, Kidney	
		:	Rat 5 mg/kg Oral 2 yr	



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Rema	arks	: No	significant adv	erse effects were reported
Speci LOAE Applic Expos	es EL cation Route sure time et Organs	: Mor : 25 r : Sub : 66 l : Bloo	nkey mg/kg ocutaneous Days od, Liver, Kidn mia	
Not c	ration toxicity lassified based on avail rience with human ex		mation.	
Com	oonents:			
Benz	ylpenicillin: ation		nptoms: Allerg spasm, skin ra	ic reactions, Abdominal pain, bron- ash
Strep	tomycin sulphate:			
Inhala	ation	Syn Tar	get Organs: in nptoms: hearir get Organs: Ki nptoms: hearir	ng loss dney
Skin o	contact	: Syn	nptoms: skin ra	ash
Proca	aine hydrochloride:			
Inhala	ation	Syn diffi Rer Bas Tar Syn diffi Rer	nptoms: nervo culties, Rash, narks: May ca ed on clinical get Organs: He nptoms: nervo culties, Rash,	eart usness, Dizziness, Convulsions, Breathing Swelling of tissue, irregular heart beat use harm to the unborn child.
Pirox	icam:			
Inges	tion	Syn Diz:	nptoms: Diarrh	astrointestinal tract loea, constipation, flatulence, Headache, s, skin rash, Ulceration, chest pain, Ab-



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Section 12: Ecological information

Toxicity

Components:

Benzylpenicillin:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 hrs Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 hrs Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 hrs Method: OECD Test Guideline 201
		NOEC (Raphidocelis subcapitata (freshwater green alga)): 50 mg/l Exposure time: 72 hrs Method: OECD Test Guideline 201
		EC50 (blue-green algae): 0.74 mg/l Exposure time: 72 hrs Method: OECD Test Guideline 201
		NOEC (blue-green algae): 0.14 mg/l Exposure time: 72 hrs Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox-	:	1
icity) Toxicity to microorganisms	:	EC50: > 500 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
		NOEC: 5 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209
Streptomycin sulphate:		
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 487 mg/l Exposure time: 48 h



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I	I			Method: OECD To	est Guideline 202
	Toxicity plants	v to algae/aquatic	:	EC50 (Microcystis Exposure time: 72 Method: ISO 8692	
				EC50 (Selenastru Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	100	
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
	M-Facto toxicity)	or (Chronic aquatic)	:	100	
	Procai	ne hydrochloride:			
	Ecotox	cicology Assessment			
	Acute a	equatic toxicity	:	Toxic effects canr	not be excluded
	Chronic	c aquatic toxicity	:	Toxic effects cann	not be excluded
	Piroxic	am:			
	Ecotox	icology Assessment			
	Acute a	equatic toxicity	:	Toxic effects canr	not be excluded
		c aquatic toxicity	:	Toxic effects canr	not be excluded
		ence and degradabili	ty		
	<u>Compc</u>	onents:			
	Benzyl	penicillin:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: 7 Exposure time: 28 Method: OECD To	70.10 [°] %
	Bioacc	umulative potential			
	Compo	onents:			
_	-	omycin sulphate:			
	Partitio	n coefficient: n-	:	log Pow: -3.2	

UN number



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octan	ol/water		
Proc	aine hydrochloride:		
Partit	ion coefficient: n- ol/water	: log Pow: 2.14	
	lity in soil ata available		
	r adverse effects ata available		
Section 1	3: Disposal considerat	ions	
Disp	osal methods		
Wast	e from residues		of waste into sewer.
Conta	aminated packaging	: Empty containe dling site for re	ccordance with local regulations. ers should be taken to an approved waste han- cycling or disposal. e specified: Dispose of as unused product.
Inter	national Regulations		
UNR			
	umber roper shipping name	N.O.S.	ITALLY HAZARDOUS SUBSTANCE, LIQUID,
Trans	sport hazard class(es)	(Benzyipenicii : 9	lin, Streptomycin sulphate)
	ing group	: 111	
Label		: 9	
	onmental hazards	: yes	
IATA UN/IE		: UN 3082	
	roper shipping name	: Environmental	y hazardous substance, liquid, n.o.s. lin, Streptomycin sulphate)
Packi Labe		: 9 : III : Miscellaneous	, , , ,
aircra Packi	ing instruction (passen-	: 964 : 964	
ger a	ircraft) onmentally hazardous	: yes	
	G-Code	· 11NI 2082	

: UN 3082



Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
6.0	06.04.2024	2449594-00023	Date of first issue: 13.02.2018
Prope	er shipping name	N.O.S.	TALLY HAZARDOUS SUBSTANCE, LIQUID,

		(Benzylpenicillin, Streptomycin sulphate)
Transport hazard class(es)	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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 specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.
Environmental Protection and Management Act and : Not applicable
Environmental Protection and Management (Hazard-ous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable Regulations

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

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

Section 16: Other information

Revision Date	:	06.04.2024
Further information Sources of key data used to compile the 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/



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

Date format : dd.mm.yyyy

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 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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