

Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
11.0	2024/09/28	2449558-00025	Date of first issue: 2018/02/13

1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name :		Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochlo- ride / Piroxicam Liquid Formulation
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Supplier's company name, address and phone number

Company name of supplier	:	MSD
Address	:	Kumagaya, Saitama Prefecture , Xicheng 810 MSD Co., Ltd. Menuma factory
Telephone	:	048-588-8411
E-mail address	:	EHSDATASTEWARD@msd.com
Emergency telephone number	:	+1-908-423-6000

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

2. HAZARDS IDENTIFICATION

GHS classification of chemic Serious eye damage/eye irri- tation		
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 haza	g-term (chronic) aquatic ard	: Category 1	
GHS	label elements		
	ard pictograms		¥_
Sign	al word	: Danger	V
Haza	ard statements	H320 Causes H334 May cau difficulties if inl H360D May da H371 May cau H372 Causes prolonged or re H373 May cau through prolon	se allergy or asthma symptoms or breathing
Prec	autionary statements	[:] Prevention:	
		P202 Do not h and understoo P260 Do not b P264 Wash sk P270 Do not e P272 Contami 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 of lease to the environment. otective gloves/ protective clothing/ eye protec-
		P304 + P340 I keep comforta 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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P337 + P313 If eye irritation persists: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
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	

4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical vice immediately. When symptoms persist or in all cases of doubt seek mediadvice.	
If inhaled	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
In case of skin contact	In case of contact, immediately flush skin with soap and p of water. Remove contaminated clothing and shoes.	lenty



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				Get medical atten Wash clothing bet	fore reuse.		
In case of eye contact		:	Thoroughly clean shoes before reuse. 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.				
а		ant symptoms both acute and	:	May cause an alle Causes eye irritat May cause allergy ties if inhaled. May damage the May cause damage Causes damage t exposure. Excessive exposu other respiratory of	ergic skin reaction. ion. / or asthma symptoms or breathing difficul- unborn child. ge to organs. o organs through prolonged or repeated ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac-		
Ρ	Protection of first-aiders		:	First Aid responde and use the recor	nction syndrome). ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).		
	Notes to physician		:		cally and supportively.		
5. FIR	EFIGHTING	G MEASURES					
S	Suitable exti	nguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical			
	Jnsuitable e nedia	extinguishing	:	None known.			
	Specific haza ighting	ards during fire-	:	Exposure to comb	pustion products may be a hazard to health.		
	lazardous c icts	combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur oxides Oxides of phosph Metal oxides			
	Specific extin ods	nguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		



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Special protective equipment for firefighters		:	so. Evacuate area. In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.	
6. ACCIDENTAL RELEASE MEA		SUF	RES		
t	Personal precautions, protec- tive equipment and emer- gency procedures		:		ective equipment. ng advice (see section 7) and personal pro- recommendations (see section 8).
I	Environmental precautions		:	Prevent spreading barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil e of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	For large spills, pr ment to keep mate be pumped, store Clean up remainin bent. Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	absorbent material. ovide dyking or other appropriate contain- erial from spreading. If dyked material can recovered material in appropriate container. og materials from spill with suitable absor- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- tions are applicable. 5 of this SDS provide information regarding tional requirements.

7. HANDLING AND STORAGE

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. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety



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-		nce of contact e measures		sessment Keep container tig Already sensitised to asthma, allergin should consult the tory irritants or se Do not eat, drink Take care to prevent environment. Oxidizing agents If exposure to che flushing systems place. When using do not Contaminated wo workplace. Wash contaminated The effective ope engineering contra appropriate dego	d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira- nsitisers. or smoke when using this product. eent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the	
:	Storag	e				
Conditions for safe storage Materials to avoid		:	 Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national reg Do not store with the following product types: 			
				Strong oxidizing a	agents	
I	Packag	ging material	:	Unsuitable materi	al: None known.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis
Benzylpenicillin	61-33-6	TWA	600 µg/m3 (OEB 2)	Internal
	Further informa	ation: RSEN, DS	EN	
		Wipe limit	100 µg/100 cm2	Internal
Streptomycin sulphate	3810-74-0	TWA	OEB 2 (>= 100 < 1,000 µg/m3)	Internal

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	Further inform	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 2)	Internal			
 Engineering measures Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles t protect products, workers, and the environment. Laboratory operations do not require special containment 							
Personal protective equipm	nent						
Respiratory protection Filter type	sure assessn ommended g	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type					
Hand protection	. Tantodiatoo t	900					
Material	: Chemical-res	istant gloves					
Eye protection	If the work er mists or aero Wear a faces	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					
Skin and body protection		or laboratory	roat				

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available



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Up	r explosion limit and upp oper explosion limit / Up- er flammability limit			
	ower explosion limit / ower flammability limit	:	No data available	9
Flash	point	:	No data available)
Deco	mposition temperature	:	No data available	9
рН		:	No data available	9
Evap	oration rate	:	No data available	9
Auto-	ignition temperature	:	No data available	9
Visco Vi	sity scosity, kinematic	:	No data available	
	oility(ies) ater solubility	:	No data available)
	ion coefficient: n- ol/water	:	Not applicable	
Vapo	ur pressure	:	No data available	9
	ity and / or relative dens elative density	ity :	No data available)
De	ensity	:	No data available	9
Relat	ive vapour density	:	No data available)
Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	The substance of	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	9
	cle characteristics article size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.



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Possii tions Condi Incom Hazai produ		: :	None known. Oxidizing agents No hazardous de	trong oxidizing agents.
11. TOXIC	OLOGICAL INFORMAT	ION	l	
Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity assified based on availa	ble	nformation.	
<u>Produ</u> Acute	<u>uct:</u> oral toxicity	:	Acute toxicity est Method: Calculat	imate: > 2,000 mg/kg ion method
Comp	oonents:			
Benz	ylpenicillin:			
Acute	oral toxicity	:	LD50 (Rat): 8,000	0 mg/kg
			LD50 (Mouse): >	5,000 mg/kg
	toxicity (other routes of istration)	:	LD50 (Mouse): 3 Application Route	
			LD50 (Mouse): 32 Application Route	
Strep	tomycin sulphate:			
	oral toxicity	:	LD50 (Hamster):	400 mg/kg
			LD50 (Rat): 430 ı	mg/kg
			LD50 (Mouse): 2	5,000 mg/kg
	toxicity (other routes of istration)	:	LD50 (Mouse): 8 Application Route	
11			LD50 (Mouse): 5	



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			LD50 (Mouse): 50 Application Route	
			TDLo (Dog): 220 - Application Route Symptoms: Lower	
			LDLo (Monkey): 1 Application Route	
			TDLo (Monkey): 3 Application Route Symptoms: respire	: Subcutaneous
Proc	aine hydrochloride:			
Acute	e oral toxicity	:	LD50 (Rat): 200 n	ng/kg
			LD50 (Mouse): 35	i0 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 43 mg Application Route	
			LD50 (Mouse): 33 Application Route	
			LD50 (Dog): 33 m Application Route	
II Pirox	cicam:			
Acute	e oral toxicity	:	LD50 (Rat): 216 n	ng/kg
			LD50 (Dog): 108 r	mg/kg
			LD50 (Hamster):	170 mg/kg
			LD50 (Guinea pig): 388 mg/kg
			LD50 (Monkey): 1	,000 mg/kg
Acute	e dermal toxicity	:	LD50 (Rat): > 5,00	00 mg/kg
Skin	corrosion/irritation			
Not c	lassified based on availa	ble	information.	

Serious eye damage/eye irritation Causes eye irritation.



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<u>Com</u> j	<u>ponents:</u>			
Strep Resu	otomycin sulphate: It	:	Mild eye irritation	1
Proca Resu	aine hydrochloride: It	:	Moderate eye irri	tation
Resp	iratory or skin sensiti	satio	n	
-	sensitisation cause an allergic skin re	eactio	n.	
-	iratory sensitisation cause allergy or asthma	a sym	ptoms or breathin	g difficulties if inhaled.
Com	ponents:			
	ylpenicillin:			
Test Expos Speci Resu	sure routes ies	:	Local lymph node Dermal Mouse Weak sensitizer	e assay (LLNA)
Test Expos Speci Resu Rema	sure routes ies It	: : : : : : : : : : : : : : : : : : : :	Maximisation Tes Dermal Guinea pig positive Based on data fr	st om similar materials
Resu Rema		:	Strong sensitizer Based on human	
Test	sure routes ies	:	Human repeat in Dermal Humans Weak sensitizer	sult patch test (HRIPT)
		:	Dermal Sensitiser Based on human Based on data fre	experience. om similar materials



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	cell mutagenicity assified based on availa	able information.	
Comp	onents:		
Benzy	/lpenicillin:		
	cell mutagenicity - sment	: Weight of evid cell mutagen.	dence does not support classification as a gern
Strept	tomycin sulphate:		
Genot	oxicity in vitro	: Test Type: Ch Result: equivo	nromosomal aberration ocal
Genot	oxicity in vivo		nromosomal aberration nan lymphocytes ve
Proca	ine hydrochloride:		
Genot	oxicity in vitro	: Test Type: Ba Result: equive	cterial reverse mutation assay (AMES) ocal
Piroxi	cam:		
Genot	oxicity in vivo	Species: Hum	nan lymphocytes
Carcii	nogenicity		
Not cla	assified based on availa	able information.	
<u>Comp</u>	onents:		
	tomycin sulphate:	Det	
Specie Applic	es ation Route	: Rat : Oral	
NOAE Result	E	5 mg/kg body negative	weight
Carcir ment	nogenicity - Assess-	: Weight of evid cinogen	dence does not support classification as a car-
-	oductive toxicity	4	
-	amage the unborn child conents:	1.	
	/Ipenicillin:		



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Effec	ts on fertility	Species: Result: N	lo effects on fertility
		Species:	e: Fertility Rat lo effects on fertility
		Species:	e: Fertility Rabbit lo effects on fertility
Effec ment	ts on foetal develop-	Species:	e: Development Mouse lo effects on foetal development
		Species:	e: Development Rat Io effects on foetal development
		Species:	e: Development Rabbit lo effects on foetal development
II Strep	otomycin sulphate:		
Effec	ts on fertility	Species: Applicati Fertility:	e: Fertility Rat on Route: Intraperitoneal LOAEL: 40 mg/kg body weight ns: male reproductive effects
Effec ment	ts on foetal develop-	Species: Applicati Develop	e: Development Mouse on Route: Intraperitoneal mental Toxicity: LOAEL: 250 mg/kg body weight ns: fetal deafness, Embryo-foetal toxicity
		Species: Applicati Develop	e: Development Rabbit on Route: Oral mental Toxicity: NOAEL: 10 mg/kg body weight lo teratogenic effects
Repr	oductive toxicity - As- ment	: May dan	nage the unborn child.
	aine hydrochloride:		
Repr	oductive toxicity - As- ment	: May dan	nage the unborn child.



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Piroxi	cam:							
Effects on foetal develop- ment		 Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 10 mg/kg body weig Result: Embryo-foetal toxicity, No teratogenic effects, growth retardation 						
			Symptoms: foeta Result: Embryo-f growth retardatio	e: Oral oxicity: LOAEL: 30 mg/kg body weight I mortality oetal toxicity, No teratogenic effects, Fetal				
			Test Type: Devel Species: Rabbit Application Route Developmental T Result: No embry	e: Oral oxicity: NOAEL: 10 mg/kg body weight				
Reproo sessm	ductive toxicity - As- ent	:	Suspected of dar	maging the unborn child.				
	 single exposure ause damage to organ 	s (N	ervous system, He	eart).				

Components:

Procaine hydrochloride:

Target Organs Assessment	:	Nervous system, Heart
Assessment	:	Causes damage to organs.

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		Kidney, inner ear
Assessment	:	Causes damage to organs through prolonged or repeated



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	icam: t Organs ssment	exposure. : Gastrointestinal f : Causes damage exposure.	tract to organs through prolonged or repeated
Comp	ated dose toxicity <u>ponents:</u>		
Speci NOAE Applic	EL cation Route sure time	: Rat : 100 mg/kg : Subcutaneous : 72 Days : No significant ad	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	ırks	:	No significant adv	verse effects were reported
LÒAE Applic Expos Targe	Species LOAEL Application Route Exposure time Target Organs Symptoms		Monkey 25 mg/kg Subcutaneous 66 Days Blood, Liver, Kidr anemia	ney
Not cl	ation toxicity assified based on avai rience with human ex			
Comp	oonents:			
Benzy Inhala	ylpenicillin: ation	:	Symptoms: Allerg chospasm, skin r	jic reactions, Abdominal pain, bron- ash
Strep	tomycin sulphate:			
Inhala	ation	:	Target Organs: ir Symptoms: heari	
			Target Organs: K Symptoms: heari	
Skin c	contact	:	Symptoms: skin r	ash
Proca	aine hydrochloride:			
Inhala	ation	:	Symptoms: nervo difficulties, Rash,	entral nervous system busness, Dizziness, Convulsions, Breathing Swelling of tissue, irregular heart beat buse harm to the unborn child. use
			difficulties, Rash,	Swelling of tissue, irregular heart beat use harm to the unborn child.
Pirox	icam:			
Ingest	tion	:	Symptoms: Diarrl	astrointestinal tract noea, constipation, flatulence, Headache, s, skin rash, Ulceration, chest pain, Ab-



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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Benzylpenicillir	1:

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	:	EC50 (Daphnia magna (Water flea)): 487 mg/l



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a	aquatic	invertebrates		Exposure time: 48 Method: OECD To	
	Toxicity plants	y to algae/aquatic	:	EC50 (Microcystis Exposure time: 72 Method: ISO 8692	
				EC50 (Selenastru Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	100	
ā		y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
	M-Fact oxicity	or (Chronic aquatic)	:	100	
F	Procai	ne hydrochloride:			
		cicology Assessment			
ŀ	Acute a	aquatic toxicity	:	Toxic effects canr	not be excluded
C	Chroni	c aquatic toxicity	:	Toxic effects cann	not be excluded
F	Piroxio	am:			
E	Ecoto	cicology Assessment			
ŀ	Acute a	aquatic toxicity	:	Toxic effects canr	not be excluded
C	Chroni	c aquatic toxicity	:	Toxic effects cann	not be excluded
F	Persis	tence and degradabili	ity		
<u>(</u>	Compo	onents:			
E	Benzy	penicillin:			
E	Biodeg	radability	:	Result: Readily bi Biodegradation: 7 Exposure time: 28 Method: OECD To	70.10 %
E	Bioaco	umulative potential			
<u>(</u>	Compo	onents:			
S	Strepto	omycin sulphate:			



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	ion coefficient: n- ol/water	:	log Pow: -3.2	
Partiti	aine hydrochloride: ion coefficient: n- ol/water	:	log Pow: 2.14	
	l ity in soil ata available			
	r dous to the ozone la g pplicable	yer		
••	r adverse effects ata available			
13. DISPO	SAL CONSIDERATIO	NS		
Dispo	osal methods			
Waste	e from residues	:		ordance with local regulations. f waste into sewer.
Conta	aminated packaging	:	Empty containers dling site for recy	s should be taken to an approved waste han-

14. TRANSPORT INFORMATION

International Regulations

:	UN 3082
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzylpenicillin, Streptomycin sulphate)
:	9
:	III
:	9
:	yes
:	UN 3082
:	Environmentally hazardous substance, liquid, n.o.s. (Benzylpenicillin, Streptomycin sulphate)
:	9
:	III
:	Miscellaneous
:	964
:	964



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Environmentally hazardous	:	yes
IMDG-Code UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Benzylpenicillin, Streptomycin sulphate)
Class	:	9
Packing group	:	
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.

National Regulations

Refer to section 15 for specific national regulation.

Special precautions for user

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

ERG Code

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

: 171

Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Industrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

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

Not applicable



Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

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Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity Not applicable

Substances Subject to be Notified Names

Not applicable

Substances Subject to be Indicated Names

Not applicable

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

Not applicable

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

Not applicable

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

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

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

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

Not applicable

High Pressure Gas Safety Act

Not applicable

Explosive Control Law

Not applicable

Vessel Safety Law

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

Aviation Law

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



Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

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Marir	ne Pollution and Sea	Disas	ster Prevention e	etc Law	
Bulk	transportation	:	Not classified a	s noxious liquid substance	
Pack	transportation	:	Classified as m	arine pollutant	
Narcotics and Psychotropics Control Act Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable					
	e Disposal and Publi trial waste	c Cle	ansing Law		
The components of this product are reported in the following inventories:					
AICS		:	not determined		
DSL		:	not determined		
IECS	С	:	not determined		
16. OTHER INFORMATION					

Further information

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

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

Date format : yyyy/mm/dd

Full text of other abbreviations

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



Benzylpenicillin / Streptomycin Sulphate / Procaine Hydrochloride / Piroxicam Liquid Formulation

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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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