

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
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1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name	:	Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation
Supplier's company name, addr Company name of supplier :		•
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 chemical product				
Skin sensitisation	:	Category 1		
Reproductive toxicity	:	Category 1A		
Effects on or via lactation				
Short-term (acute) aquatic hazard	:	Category 1		
Long-term (chronic) aquatic hazard	:	Category 1		
GHS label elements				
Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H317 May cause an allergic skin reaction. H360D May damage the unborn child.		



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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			e harm to breast-fed children. to aquatic life with long lasting effects.
Precau	utionary statements	[:] Prevention:	
		P201 Obtain sp P202 Do not ha and understood P261 Avoid brea P263 Avoid con P264 Wash skir P270 Do not ea P272 Contamin the workplace. P273 Avoid rele	athing mist or vapours. tact during pregnancy and while nursing. In thoroughly after handling. t, drink or smoke when using this product. ated work clothing should not be allowed out of ase to the environment. ective gloves/ protective clothing/ eye protec-
		Response:	
		P308 + P313 IF attention. P333 + P313 If vice/ attention.	ON SKIN: Wash with plenty of water. exposed or concerned: Get medical advice/ skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it before illage.
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o disposal plant.	f contents/ container to an approved waste

Other hazards which do not result in classification None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)	ENCS No.
White mineral oil (petroleum)	8042-47-5	>= 80 - < 90	9-1700
Magnesium stearate	557-04-0	>= 1 - < 10	2-611
Neomycin, sulfate (salt)	1405-10-3	>= 3 - < 10	-
tetracycline hydrochloride	64-75-5	>= 1 - < 2.5	-



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Bacitracin	1405-87-4	>= 0.25 - < 1	8-474
prednisolone	50-24-8	>= 0.1 - < 0.25	-

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. 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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
	If swallowed		If swallowed, DO NOT induce vomiting.
		•	Get medical attention.
			Rinse mouth thoroughly with water.
	Most important symptoms	:	May cause an allergic skin reaction.
	and effects, both acute and		May damage the unborn child.
	delayed		May cause harm to breast-fed children.
	Protection of first-aiders	:	First Aid responders should pay attention to self-protection,
			and use the recommended personal protective equipment
			when the potential for exposure exists (see section 8).
	Notes to physician	:	Treat symptomatically and supportively.
5. F	IREFIGHTING MEASURES		-
••••			
	Suitable extinguishing media	:	Water spray
			Alcohol-resistant foam
			Carbon dioxide (CO2)
			Dry chemical
	Unsuitable extinguishing		None known.
	media	•	
	o		
	Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
	nynuny		
	Hazardous combustion prod-	:	Carbon oxides
	ucts		Nitrogen oxides (NOx)

Chlorine compounds

Metal oxides



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Spe ods	ecific extinguishing meth-	:	cumstances an Use water spra	ing measures that are appropriate to local cir- id the surrounding environment. by to cool unopened containers. naged containers from fire area if it is safe to do
	ecial protective equipment firefighters	:		fire, wear self-contained breathing apparatus. protective equipment.
6. ACCI	DENTAL RELEASE MEAS	SUF	RES	
tive	sonal precautions, protec- equipment and emer- cy procedures	:	Follow safe ha	protective equipment. Indling advice (see section 7) and personal pro- ent recommendations (see section 8).
Env	rironmental precautions	:	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ling over a wide area (e.g. by containment or oil pose of contaminated wash water. es should be advised if significant spillages ained.
	hods and materials for tainment and cleaning up	:	For large spills ment to keep n be pumped, sto Clean up rema bent. Local or nation posal of this ma employed in th mine which reg Sections 13 an	hert absorbent material. provide dyking or other appropriate contain- material from spreading. If dyked material can be pre recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items the cleanup of releases. You will need to deter- julations are applicable. d 15 of this SDS provide information regarding national requirements.
7. HAND	DLING AND STORAGE			
Har	ndling			
Tec	hnical measures	:		ng measures under EXPOSURE ERSONAL PROTECTION section.
Loc	al/Total ventilation	:		tilation is unavailable, use with local exhaust
Adv	rice on safe handling	:	Avoid contact of Do not get on s	during pregnancy and while nursing. skin or clothing. mist or vapours.



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	ance of contact one measures	 Wash skin f Handle in a practice, ba sessment Keep conta Do not eat, Take care t environmer Oxidizing ag If exposure flushing system place. When using Contaminat workplace. Wash conta The effective engineering appropriate industrial hystem 	act with eyes. horoughly after handling. ccordance with good industrial hygiene and safety sed on the results of the workplace exposure as- iner tightly closed. drink or smoke when using this product. o prevent spills, waste and minimize release to the t.
Stora	ige		
Cond	itions for safe storage	Store locke Keep tightly	
Mater	ials to avoid	: Do not store	e with the following product types:
Packa	aging material	: Unsuitable	material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Concentra- tion standard / Permissible con- centration	Basis	
White mineral oil (petroleum)	8042-47-5	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH	
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m3 (OEB 1)	Internal	
	Further information: DSEN, OTO				
		Wipe limit	0.1 mg/100 cm ²	Internal	
Magnesium stearate	557-04-0	TWA (Inhal-	10 mg/m3	ACGIH	



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		able particu- late matter)		
		TWA (Res- pirable par- ticulate mat- ter)	3 mg/m3	ACGIH
tetracycline hydrochloride	64-75-5	TWA	0.9 mg/m3 (OEB 2)	Internal
Bacitracin	1405-87-4	TWA	4 mg/m3 (OEB 1)	Internal
	Further inform	nation: DSEN, RS	SEN	
		Wipe limit	0.1 mg/100 cm ²	Internal
prednisolone	50-24-8	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm 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 to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
Personal protective equipmen	t
Respiratory protection:Filter type:Hand protection	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type
Material :	Chemical-resistant gloves
Remarks : Eye protection :	Consider double gloving. 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 :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES



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	Physica	II State	:	oily, suspension	
(Colour		:	No data available	
(Odour		:	No data available	
(Odour 7	Threshold	:	No data available	
I	Melting	point/freezing point	:	No data available	
		point, initial boiling nd boiling range	:	No data available	
I	Flamma	ability (solid, gas)	:	Not applicable	
I	Flamma	ability (liquids)	:	No data available	
I	Upp	explosion limit and uppe er explosion limit / Up- lammability limit	er ex :	plosion limit / flam No data available	mability limit
		er explosion limit / er flammability limit	:	No data available	
ļ	Flash p	oint	:	No data available	
I	Decom	position temperature	:	No data available	
i	Hc		:	No data available	
I	Evapora	ation rate	:	No data available	
,	Auto-igi	nition temperature	:	No data available	
,	Viscosit Visc	y osity, kinematic	:	No data available	
:	Solubilit Wate	ty(ies) er solubility	:	No data available	
	Partitior octanol/	n coefficient: n- /water	:	Not applicable	
v	Vapour	pressure	:	No data available	
I		and / or relative densit tive density	у :	No data available	
	Den	sity	:	No data available	
i	Relative	e vapour density	:	No data available	



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Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	The substance c	or mixture is not classified as oxidizing.
Moleo	cular weight	:	No data availabl	e
	cle characteristics article size	:	Not applicable	

10. STABILITY AND REACTIVITY

Reactivity Chemical stability	:	
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

Acute toxicity

Not classified based on available information.

Components:

White mineral oil (petroleum) Acute oral toxicity	050 (Rat): >	5,000 mg/kg
Acute inhalation toxicity	•	0
Acute dermal toxicity		> 2,000 mg/kg he substance or mixture has no acute dermal

Magnesium stearate:



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,	Acute o	oral toxicity	:	icity	
,	Acute d	lermal toxicity	:	LD50 (Rabbit): > 2 Remarks: Based of	2,000 mg/kg on data from similar materials
	Neomy	cin, sulfate (salt):			
	-	oral toxicity	:	LD50 (Mouse): 2,	880 mg/kg
				LD50 (Rat): 2,750	mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): 633 n Application Route	
				LD50 (Mouse): 11 Application Route	
				LD50 (Mouse): 27 Application Route	
				LD50 (Mouse): 27 Application Route	
ť	tetracy	cline hydrochloride:			
	-	oral toxicity	:	LD50 (Rat): 6,443	mg/kg
				LD50 (Mouse): 2,	759 mg/kg
		oxicity (other routes of stration)	:	LD50 (Rat): 128 n Application Route	
				LD50 (Mouse): 15 Application Route	
I	Bacitra	cin:			
	Acute o	oral toxicity	:	LD50 (Mouse): > Remarks: Based o	2,000 mg/kg on data from similar materials
	prednis	solone:			
/	Acute o	ral toxicity	:	LD50 (Mouse): 1,0	680 mg/kg
				LD50 (Rat): > 3,8	57 mg/kg
/	Acute ir	nhalation toxicity	:	Remarks: No data	a available



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	Acute of	dermal toxicity	:	Remarks: No data	a available
		oxicity (other routes of stration)	:	LD50 (Rat): 147 n Application Route	
				LD50 (Mouse): 76 Application Route	
		orrosion/irritation ssified based on availa	hla	information	
		onents:	DIE	intornation.	
		mineral oil (petroleum	n):		
	Specie		:	Rabbit	
	Result		:	No skin irritation	
	Magne	sium stearate:			
	Specie	s	:	Rabbit	
	Result	ko	:		m aimilar matariala
	Remar	KS	:	Based on data fro	m similar materials
	Neomy	/cin, sulfate (salt):			
	Specie Result	S	:	Rabbit Mild skin irritation	
	tetracy	cline hydrochloride:			
	Remar	ks	:	No data available	
	predni	solone:			
	Remar	ks	:	No data available	
	Seriou	s eye damage/eye irri	tati	on	
		ssified based on availa			
	Compo	onents:			
		mineral oil (petroleum	ı):		
	Specie Result	S	:	Rabbit No eye irritation	
	Magne	sium stearate:			
	Specie	S	:	Rabbit	
	Result	ka	÷	No eye irritation	
	Remar	KS	·	based on data fro	m similar materials



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Neon	nycin, sulfate (salt):			
Speci			Rabbit	
Resu	lt	:	No eye irritatior	1
tetrad	cycline hydrochloride	: :		
Rema	arks	:	No data availab	ble
predi	nisolone:			
Rema	arks	:	No data availab	ble
Resp	iratory or skin sensit	isatior	1	
Skin	sensitisation			
May o	cause an allergic skin r	eactior	۱.	
Resp	iratory sensitisation			
-	lassified based on ava	ilable ir	nformation.	
	ponents:			
White	e mineral oil (petroleu	ım):		
Test ⁻	Туре	:	Buehler Test	
	sure routes		Skin contact	
Speci			Guinea pig	
Resu	It	:	negative	
Magr	nesium stearate:			
Test 7		:	Maximisation T	est
	sure routes		Skin contact	
Speci			Guinea pig OECD Test Gu	idaliaa 106
Metho Resu			negative	
Rema				from similar materials
Neon	nycin, sulfate (salt):			
	sure routes	:	Dermal	
Speci			Humans	
Resu		:	positive	
tetrac	cycline hydrochloride	: :		
Rema	arks	:	No data availab	le
Bacit	racin:			
Test ⁻	Туре	:	Human repeat i	nsult patch test (HRIPT)
Expo	sure routes	:	Skin contact	, ,
Resu	lt	:	positive	



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Asse	ssment	:	Probability or e	vidence of skin sensitisation in humans		
-	prednisolone: Remarks		No data available			
Not c	n cell mutagenicity classified based on ava ponents:	ailable	information.			
	e mineral oil (petrole	um).				
	otoxicity in vitro	:	Test Type: In vi Result: negative	tro mammalian cell gene mutation test e		
Genc	otoxicity in vivo	:	cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negative	e ite: Intraperitoneal injection Test Guideline 474		
Magr	nesium stearate:					
-	otoxicity in vitro	:	Result: negative	tro mammalian cell gene mutation test e d on data from similar materials		
			••	omosome aberration test in vitro Test Guideline 473 e		
				d on data from similar materials		
			Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials		
Noor	nycin, sulfate (salt):					
	otoxicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e		
				tro mammalian cell gene mutation test hinese hamster ovary cells e		
				omosomal aberration uman lymphocytes		



0				
0			Test Type: in vitr Result: negative	ro micronucleus test
Genotoxi	Genotoxicity in vivo		Test Type: Cytog Species: Mouse Cell type: Bone r Application Rout Result: negative	
tetracvc	line hydrochloride:			
-	city in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Cytog Test system: Chi Result: negative	genetic assay inese hamster ovary cells
			Test Type: sister Result: negative	chromatid exchange assay
			Test Type: Mous Result: negative	e Lymphoma
Baaitraa	in.			
	Bacitracin: Genotoxicity in vitro		Result: negative	erial reverse mutation assay (AMES) on data from similar materials
			Result: negative	o mammalian cell gene mutation test
			Test Type: Chroi Result: negative	mosome aberration test in vitro
			Remarks: Based	on data from similar materials
prednisc	plone:			
Genotoxi	Genotoxicity in vitro		Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Mous Result: negative	e Lymphoma
			Test Type: sister Result: negative	chromatid exchange assay
Genotoxi	city in vivo	:	Test Type: Mam	malian erythrocyte micronucleus test (in vivo y)



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Species: Rat Application Route: Oral Result: negative

Test Type: sister chromatid exchange assay Species: Humans Result: negative

Carcinogenicity

Not classified based on available information.

Components:

White mineral oil (petroleum):

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	24 Months
Result	:	negative

Neomycin, sulfate (salt):

Species	:	Rat
Exposure time	:	2 Years
Result	:	negative

tetracycline hydrochloride:

Species Application Route Exposure time Result	:	Rat Oral 103 W negative
Species Application Route Exposure time Result	:	Mouse Oral 103 W negative

prednisolone:

Species	:	Rat
Application Route	:	Oral
Exposure time	:	18 Months
Result	:	negative

Reproductive toxicity

May damage the unborn child. May cause harm to breast-fed children.

Components:

White mineral oil (petroleum):



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Effects on fertility		:	 Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Skin contact Result: negative 			
Effects on foetal develop- ment		:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative			
М	lagnes	sium stearate:				
Effects on fertility		:	Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials			
	Effects on foetal develop- ment		:	Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials		
N	eomy	cin, sulfate (salt):				
Ef	Effects on fertility		:	Species: Rat Application Route General Toxicity -	Parent: NOAEL: 25 mg/kg body weight on fertility and early embryonic develop-	
	ffects o lient	on foetal develop-	:	Species: Rat Application Route Embryo-foetal tox	o-foetal development : Oral icity: NOAEL: 275 mg/kg body weight se effects, No teratogenic effects	
				Test Type: Develor Species: Rat Application Route Developmental To Result: positive		
Reproductive toxicity - As- sessment		:	Some evidence of animal experimen	f adverse effects on development, based on ts.		

tetracycline hydrochloride:



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Effe	cts on fertility					
Effects on foetal develop- ment		Result: Embry	Test Type: Development Result: Embryo-foetal toxicity, Specific developmental abnor- malities, Skeletal malformations			
•	roductive toxicity - As- ment		ting a hazard to babies during the lactation peri- age the unborn child.			
Bac	itracin:					
Effects on fertility		Species: Rat Application Ro Result: negati	rtility/early embryonic development oute: Ingestion ve sed on data from similar materials			
Effects on foetal develop- ment		Species: Rat Application Ro Result: negati				
prec	Inisolone:					
-	cts on fertility	Species: Rat Application Ro Fertility: NOA	rtility/early embryonic development oute: Subcutaneous EL: 1 mg/kg body weight ects on fertility			
Effeo men	cts on foetal develop- t	Species: Mou Application Ro Developmenta				
		Species: Rat Application Ro Developmenta	nbryo-foetal development oute: Oral al Toxicity: LOAEL: 30 mg/kg body weight ased blood formation			
		Developmenta	oute: Subcutaneous al Toxicity: NOAEL: 25 mg/kg body weight ects on foetal development			



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Repro	oductive toxicity - As- nent	: Some evider animal expe	nce of adverse effects on development, based on riments.
	Γ - single exposure lassified based on avai	lable information.	
STO Not c	- repeated exposure lassified based on avai		
Com	ponents:		
Targe	nycin, sulfate (salt): et Organs ssment arks	exposure.	r ear lamage to organs through prolonged or repeated man experience.
tetra	cycline hydrochloride		
Expo Targe	sure routes et Organs ssment	: Oral : Gastrointesti	nal tract, Nervous system, Skin, Teeth lamage to organs through prolonged or repeated
Bacit	racin:		
	ssment	5	t health effects observed in animals at concentra- mg/kg bw or less.
predi	nisolone:		
Targe	et Organs ssment		v, Adrenal gland, Liver age to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	ponents:		
White	e mineral oil (petroleu	ım):	
		: Rat : 160 mg/kg : Ingestion : 90 Days	
Species:RatLOAEL:>= 1 mg/lApplication Route:inhalation (dust/mist/fume)Exposure time:4 WeeksMethod:OECD Test Guideline 412			



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Spec NOAI Appli	EL cation Route sure time	: Rat : > 100 mg/kg : Ingestion : 90 Days : Based on data	a from similar materials
Spec LOAE Applic Expo		: Mouse : 30 mg/kg : Subcutaneous : 14 d : Kidney	3
Expo	ΞL	: Guinea pig : 50 mg/kg : 100 mg/kg : Intramuscular : 30 - 60 Weeks : ear	5
	EL cation Route sure time	: Guinea pig : 10 mg/kg : Oral : 90 d : No significant	adverse effects were reported
		: Guinea pig : 100 mg/kg : Subcutaneous : 34 d	3
Expo		: Dog : 24 mg/kg : Intramuscular : 30 d : Kidney	
Expo Targe	EL cation Route sure time et Organs otoms	: Rat : 25 mg/kg : oral (feed) : 84 Weeks : ear : hearing loss : mortality obse	rved
Spec LOAE		: Dog : 20 mg/kg	



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Application Route Exposure time Target Organs	: 90	ocutaneous d ney
tetracycline hydro Species NOAEL LOAEL Application Route Exposure time	: Ra : 625 : 1,2	5 mg/kg 50 mg/kg I (feed) W
Target Organs Symptoms Species NOAEL LOAEL Application Route Exposure time Symptoms	: Re : Mo : 3,7 : 7,5 : ora : 13	duced body weight use 50 mg/kg 00 mg/kg I (feed)
Bacitracin: Species LOAEL Application Route Exposure time Remarks	: Ing : 13	: 0 mg/kg estion Weeks sed on data from similar materials
prednisolone: Species LOAEL Application Route Exposure time Target Organs	: Ora : 63	mg/kg
Species LOAEL Application Route Exposure time Target Organs	: Ora : 6 V	mg/kg
Species LOAEL Application Route Exposure time Target Organs	: 1 m : Ora	Weeks

Aspiration toxicity

Not classified based on available information.



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Components:

tetracycline hydrochloride:

Not applicable

Experience with human exposure

Components:

Neomycin, sulfate (salt):

Skin contact	: Symptoms: Sensitisation Remarks: May irritate skin.	
Eye contact	: Remarks: May cause eye irritation.	
Ingestion	: Symptoms: Nausea, Vomiting, Diarrhoea, tinnitus, hearin loss, Loss of balance	ıg

tetracycline hydrochloride:

Ingestion	 Target Organs: Teeth Symptoms: Gastrointestinal disturbance, Nausea, Vomiting, Diarrhoea, Liver effects, skin rash, central nervous system effects Remarks: May cause sensitisation of susceptible persons. May cause photosensitisation. Based on Human Evidence
prednisolone:	

Ingestion	:	Symptoms: sodium retention, Headache, Vertigo, fluid reten-
		tion, subcutaneous bleeding, striae, skin atrophy, menstrual
		irregularities

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

White mineral oil (petroleum):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100



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	plants			mg/l Exposure time: 72 Method: OECD Te	
	Toxicity to fish (Chronic tox- icity)		:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l Exposure time: 28 d	
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 1,000 mg/l d
	Magnesium stearate: Toxicity to fish		:	Exposure time: 48 Method: DIN 3841	
		to daphnia and other invertebrates	:	Exposure time: 47 Test substance: V Method: Directive	Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
	Toxicity plants	v to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials
				mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	Toxicity	to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
	Toxicity	cin, sulfate (salt): to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
				LC50 (Americamy	rsis): 39 mg/l



/ersion 3.1	Revision Date: 2024/09/28		9S Number: 7514-00027	Date of last issue: 2024/07/06 Date of first issue: 2016/01/07
			Exposure time: 96 Method: US-EPA	6 h OPPTS 850.1035
Toxicity to algae/aquatic plants		:	EC50 (Anabaena Exposure time: 72 Method: OECD T	
			NOEC (Anabaena Exposure time: 72 Method: OECD T	
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T	
			NOEC (Pseudoki 0.0022 mg/l Exposure time: 72 Method: OECD T	
	ctor (Acute aquatic tox-	:	1,000	
	ctor (Chronic aquatic	:	10	
toxicity) Toxicity to microorganisms		:	EC50 (Natural mi Exposure time: 3 Test Type: Respin Method: OECD T	ration inhibition
			Exposure time: 3 Test Type: Respire	
tetrac	cycline hydrochloride:			
Toxici plants	ty to algae/aquatic	:	EC50 (Anabaena Exposure time: 72	flos-aquae (cyanobacterium)): 6.2 mg/l 2 h
			NOEC (Anabaena Exposure time: 72	a flos-aquae (cyanobacterium)): 2.5 mg/l 2 h
			EC50 (Pseudokin mg/l Exposure time: 72	chneriella subcapitata (green algae)): 3.31 2 h
			NOEC (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 0.032 2 h



ersion 3.1	Revision Date: 2024/09/28		OS Number: 7514-00027	Date of last issue: 2024/07/06 Date of first issue: 2016/01/07	
			EC50 (Microcysti Exposure time: 7	s aeruginosa (blue-green algae)): 0.09 mg/l d	
	ctor (Acute aquatic tox-	:	10		
	ctor (Chronic aquatic	:	1		
	toxicity) Toxicity to microorganisms :		EC50: 0.08 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209		
Bacit	racin:				
Toxici		:	EC50 (Artemia sa Exposure time: 4	alina (brine shrimp)): 21.8 mg/l 3 h	
Toxici plants	ity to algae/aquatic	:	EC50 (Anabaena Exposure time: 10 Method: OECD T		
predr	nisolone:				
Toxici	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): > 85 mg/l 3 h	
	Toxicity to algae/aquatic : plants		NOEC (Pseudoki mg/l Exposure time: 72	rchneriella subcapitata (green algae)): 160 2 h	
			EC50 (Pseudokin mg/l Exposure time: 7:	chneriella subcapitata (green algae)): > 160 2 h	
	ity to daphnia and other ic invertebrates (Chron- city)	:	NOEC (Ceriodap Exposure time: 7	hnia dubia (water flea)): 0.23 mg/l d	
Persi	stence and degradabili	ty			
<u>Comp</u>	oonents:				
	e mineral oil (petroleum gradability	ı): :	Result: Not readil Biodegradation: Exposure time: 28	31 %	
Magn	esium stearate:				
Biode	gradability	:	Result: Not biode Remarks: Based	gradable on data from similar materials	



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	Neomycin, sulfate (salt): Biodegradability		rapidly degradable adation: 50 % re time: 1.2 d OECD Test Guideline 314
Bioa	ccumulative potential		
Com	ponents:		
Parti	nesium stearate: tion coefficient: n- nol/water	: log Pow	: > 4
Parti	mycin, sulfate (salt): tion coefficient: n- nol/water	: log Pow	: < -2
Parti	cycline hydrochloride tion coefficient: n- nol/water	: log Pow pH: 7	: -1.37
Parti	tracin: tion coefficient: n- nol/water	: log Pow	: -0.8
Parti	nisolone: tion coefficient: n- nol/water	: log Pow	: 1.46
	ility in soil ata available		
	ardous to the ozone lag	yer	
	er adverse effects ata available		
13. DISP	OSAL CONSIDERATIO	NS	

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



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14. TRANSPORT INFORMATION

International Regulations

UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class Packing group Labels Environmentally hazardous	: : :	(Neomycin, sulfate (salt), tetracycline hydrochloride) 9 III 9 yes
IATA-DGR		
UN/ID No. Proper shipping name	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Neomycin, sulfate (salt), tetracycline hydrochloride)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	÷	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		N.O.S. (Neomycin, sulfate (salt), tetracycline hydrochloride)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code Marine pollutant	÷	F-A, S-F
	·	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 : 171



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15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicable to dangerous materials / designated flammables.

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

Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

Chemical name	Concentration (%)	Remarks
Mineral oil	>=80 - <90	-
Magnesium stearate	>=1 - <10	-

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)	
Chemical name	Remarks
Mineral oil	-
Magnesium stearate	-

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



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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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)

Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation	:	Not classified as noxious liquid substance
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Pack transportation : Classified as marine 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

Waste Disposal and Public Cleansing Law

Industrial waste

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

AICS	:	not determined
DSL	:	not determined

IECSC not determined ÷



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16. OTHER INFORMATION

In this SDS, if the concentration of substances subject to notification under the Industrial Safety and Health Law is indicated as a range, it includes cases where it is a trade secret.

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/
Date format	:	yyyy/mm/dd
Full text of other abbreviation	ons	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, time-weighted average

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



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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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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