

Version	Revision Date:	SDS Number:	Date of last issue: 06.07.2024
10.1	28.09.2024	443940-00028	Date of first issue: 07.01.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Trade name	Prednisolone / Neomycin / Tetracy tion	cline / Bacitracin Formula-
1.2 Relevant identified uses of	ubstance or mixture and uses ad	vised against
Use of the Sub- stance/Mixture	Veterinary product	-
Recommended restrictions on use	Not applicable	
1.3 Details of the supplier of the	ety data sheet	
Company	MSD Kilsheelan Clonmel Tipperary, IE	
Telephone	353-51-601000	

: EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

E-mail address of person

responsible for the SDS

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 Reproductive toxicity, Category 1A Effects on or via lactation	H317: May cause an allergic skin reaction. H360D: May damage the unborn child. H362: May cause harm to breast-fed children.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



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Hazard pictograms				!
Signal	word	: Dang	er	• •
Hazard statements		: H317 H360 H362 H410	D May dam May caus	e an allergic skin reaction. age the unborn child. e harm to breast-fed children. c to aquatic life with long lasting effects.
Precautionary statements		P201 P263 P273 P280 tion/ f	Avoid cor Avoid rele Wear pro ace protecti onse: + P313 IF	exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label:

Neomycin, sulfate (salt) tetracycline hydrochloride Bacitracin

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

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

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by

Commission Regulation (EU) 2020/878



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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		Index-No. Registration	number	
Neom	iycin, sulfate (salt)	1405-10-3 215-773-1	Skin Sens. 1B; H317 Repr. 2; H361d STOT RE 2; H373 (Kidney, inner ear) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 10	>= 3 - < 10
tetrac	ycline hydrochloride	64-75-5 200-593-8	Repr. 1A; H360D Lact.H362 STOT RE 2; H373 (Gastrointestinal tract, Nervous sys- tem, Skin, Teeth) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,
			M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	
Bacitr	acin	1405-87-4 215-786-2	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0,25 - <
predn	isolone	50-24-8 200-021-7	Acute Tox. 4; H302 Repr. 2; H361d STOT RE 1; H372 (Bone marrow, Adrenal gland, Liv- er) Aquatic Chronic 2; H411	>= 0,1 - < 0,

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

: In the case of accident or if you feel unwell, seek medical ad-

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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		vice immedia When sympto advice.	tely. oms persist or in all cases of doubt seek medical		
Protection of first-aiders		and use the r	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).		
lf inha	aled	: If inhaled, ren Get medical a	nove to fresh air. attention.		
In case of skin contact		of water. Remove cont Get medical a Wash clothing	ntact, immediately flush skin with soap and plenty aminated clothing and shoes. attention. g before reuse. ean shoes before reuse.		
In cas	e of eye contact		ith water as a precaution. attention if irritation develops and persists.		
If swallowed		Get medical a	DO NOT induce vomiting. attention. thoroughly with water.		
4.2 Most i	mportant symptoms	and effects, both a	cute and delayed		
Risks		May damage	n allergic skin reaction. the unborn child. arm to breast-fed children.		
4.3 Indica	tion of any immedia	te medical attention	and special treatment needed		
Treati	-		matically and supportively.		

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Water spray Alcohol-resistant foam
	_	Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire- : Exposure to combustion products may be a hazard to health. fighting



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	Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (I Chlorine compour Metal oxides	,
5.3 /	Advice for firefighters Special protective equipment for firefighters	:		e, wear self-contained breathing apparatus.
	Specific extinguishing meth- ods	:	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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions		Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).	
6.2 Environmental precautions			
Environmental precautions	:	Avoid release to the environment.	

ivironmental 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.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment 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 absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.



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SECTION 7: Handling and storage

7.1 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 :	Avoid contact during pregnancy and while nursing. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.			
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.			
7.2 Conditions for safe storage, ind	cluding any incompatibilities			
Requirements for storage : areas and containers	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.			
Advice on common storage	Do not store with the following product types:			

Advice on common storage	:	Do not store with the following product types:
-		Strong oxidizing agents
		Self-reactive substances and mixtures
		Organic peroxides
		Explosives
		Gases

7.3 Specific end use(s)

Specific use(s)

: No data available



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis	
White mineral oil (petroleum)	8042-47-5	TWA (Vapour)	50 mg/m3	FOR-2011- 12-06-1358	
		TWA (Mist and particles)	1 mg/m3	FOR-2011- 12-06-1358	
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	
tetracycline hydro- chloride	64-75-5	TWA	0.9 mg/m3 (OEB 2)	Internal	
Bacitracin	1405-87-4	TWA	4 mg/m3 (OEB 1)	Internal	
Further information: DSEN, RSEN					
		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	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Neomycin, sulfate (salt)	Water	0,00004 mg/l

8.2 Exposure controls

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 containment devices).

Minimize open handling.

Personal protective equipment

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.
Hand protection		
Material	:	Chemical-resistant gloves



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Remarks Skin and body protection		: Work Addit being suits) Use a	ional body performed to avoid e	laboratory coat. garments should be used based upon the task I (e.g., sleevelets, apron, gauntlets, disposable xposed skin surfaces. degowning techniques to remove potentially		
Resp	iratory protection	: If ade sure omm Equip	: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 14387		f adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.	
Fil	ter type	: Com	bined partic	culates and organic vapour type (A-P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	oily, suspension
Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	No data available



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Solubility(ies) Water solubility		:	No data available	e				
	Partitic octano	n coefficient: n- I/water	:	: Not applicable				
	Vapou	r pressure	:	No data available	e			
	Relativ	e density	:	: No data available				
	Density		:	: No data available				
	Relative vapour density		:	No data available	e			
		e characteristics ticle size	:	Not applicable				
9.2		nformation						
	Explos	ives	:	Not explosive				
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.			
	Evapo	ration rate	:	No data available	e			
	Molecu	ılar weight	:	No data available	e			

SECTION 10: Stability and reactivity

10.1	Reactivity	
	Net dessition	

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.



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SECTION 11: Toxicological information

11.1	Information on hazard class Information on likely routes of exposure		as defined in Regulation (EC) No 1272/2008 Inhalation Skin contact Ingestion Eye contact
	Acute toxicity Not classified based on availa	ble	information.
	Components:		
	Neomycin, sulfate (salt): Acute oral toxicity	:	LD50 (Mouse): 2.880 mg/kg
			LD50 (Rat): 2.750 mg/kg
	Acute toxicity (other routes of administration)	:	LD50 (Rat): 633 mg/kg Application Route: Subcutaneous
			LD50 (Mouse): 116 mg/kg Application Route: Intraperitoneal
			LD50 (Mouse): 27,6 mg/kg Application Route: Intravenous
			LD50 (Mouse): 275 mg/kg Application Route: Subcutaneous
	tetracycline hydrochloride:		
	Acute oral toxicity	:	LD50 (Rat): 6.443 mg/kg
			LD50 (Mouse): 2.759 mg/kg
	Acute toxicity (other routes of administration)	:	LD50 (Rat): 128 mg/kg Application Route: Intravenous
			LD50 (Mouse): 157 mg/kg Application Route: Intravenous
	Bacitracin:		
	Acute oral toxicity	:	LD50 (Mouse): > 2.000 mg/kg Remarks: Based on data from similar materials
	prednisolone:		
	Acute oral toxicity	:	LD50 (Mouse): 1.680 mg/kg
			LD50 (Rat): > 3.857 mg/kg



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Ac	ute inhalation toxicity	:	Remarks: No data	available
Ac	ute dermal toxicity	:	Remarks: No data	available
	ute toxicity (other routes of ministration)	:	LD50 (Rat): 147 m Application Route	
			LD50 (Mouse): 76 Application Route	
-	in corrosion/irritation t classified based on availa	ble	information.	
	mponents:			
	omycin, sulfate (salt):			
	ecies sult	:	Rabbit Mild skin irritation	
	racycline hydrochloride: marks		No data available	
110		•		
-	e dnisolone: marks	:	No data available	
	rious eye damage/eye irri t classified based on availa			
<u>Co</u>	mponents:			
Ne	omycin, sulfate (salt):			
	ecies sult	:	Rabbit No eye irritation	
tet	racycline hydrochloride:			
Re	marks	:	No data available	
pre	ednisolone:			
-	marks	:	No data available	
Re	spiratory or skin sensitis	atio	'n	
Sk	in sensitisation			
Ma	y cause an allergic skin rea	ctic	on.	
	spiratory sensitisation t classified based on availa	hl≏	information	
NU		510		



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	<u>Comp</u>	onents:			
	Neomy	/cin, sulfate (salt):			
	Exposi	ure routes	:	Dermal	
	Specie Result		÷	Humans positive	
	Result		•	positive	
	tetracy	cline hydrochloride:			
	Remar	ks	:	No data available	
	Bacitra	acin:			
	Test Ty		:		ult patch test (HRIPT)
		ure routes	:	Skin contact	
	Result		:	positive	
	Assess	sment	:	Probability or evid	lence of skin sensitisation in humans
	predni	solone:			
	Remar	ks	:	No data available	
	Not cla	cell mutagenicity Issified based on availa	ble	information.	
	Compo	onents:			
	Neomy	/cin, sulfate (salt):			
	Genoto	oxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
					o mammalian cell gene mutation test nese hamster ovary cells
				Test Type: Chrom Test system: Hum Result: positive	nosomal aberration nan lymphocytes
				Test Type: in vitro Result: negative	micronucleus test
	Genoto	oxicity in vivo	:	Test Type: Cytoge Species: Mouse Cell type: Bone m Application Route Result: negative	-
	-	/cline hydrochloride: oxicity in vitro	:	Test Type: Bacter	ial reverse mutation assay (AMES)

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		Result: negat	ive					
		Test system:	Test Type: Cytogenetic assay Test system: Chinese hamster ovary cells Result: negative					
		Test Type: si Result: negat	ster chromatid exchange assay ive					
		Test Type: M Result: negat	ouse Lymphoma ive					
Baci	tracin:							
Geno	otoxicity in vitro	Result: negat	acterial reverse mutation assay (AMES) ive sed on data from similar materials					
		Result: negat	vitro mammalian cell gene mutation test ive sed on data from similar materials					
		Result: negat	hromosome aberration test in vitro ive sed on data from similar materials					
pred	nisolone:							
Geno	otoxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive					
		Test Type: M Result: negat	ouse Lymphoma ive					
		Test Type: si Result: negat	ster chromatid exchange assay ive					
Geno	otoxicity in vivo	: Test Type: M cytogenetic a Species: Rat Application R Result: negat	oute: Oral					
		Test Type: si Species: Hun Result: negat						

Carcinogenicity

Not classified based on available information.



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Com	ponents:			
Neor	nycin, sulfate (salt):			
Spec		:	Rat	
Expo Resu	sure time	:	2 Years negative	
1000		•	negative	
	cycline hydrochloride	:		
Spec	ies cation Route	:	Rat Oral	
	sure time	÷	103 W	
Resu		:	negative	
Spec	ies	:	Mouse	
	cation Route	:	Oral	
Expo Resu	sure time It		103 W negative	
		•		
-	nisolone:			
Spec		:	Rat Oral	
	cation Route sure time	÷	18 Months	
Resu		:	negative	
May	oductive toxicity damage the unborn chil cause harm to breast-fe		ildren.	
<u>Com</u>	ponents:			
Neor	nycin, sulfate (salt):			
Effec	ts on fertility	:	Species: Rat Application Route General Toxicity	- Parent: NOAEL: 25 mg/kg body weight s on fertility and early embryonic develop-
Effec ment	ts on foetal develop-	:	Species: Rat Application Rout Embryo-foetal to	yo-foetal development e: Oral xicity: NOAEL: 275 mg/kg body weight se effects, No teratogenic effects
			Test Type: Deve Species: Rat Application Route Developmental T Result: positive	



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	Reprod sessme	uctive toxicity - As- nt	:	: Some evidence of adverse effects on development, based o animal experiments.					
	tetracycline hydrochloride: Effects on fertility		:	Test Type: Fertility Species: Rat Application Route Fertility: NOAEL: 4 Result: No effects	: Oral 400 mg/kg body weight				
	Effects ment	on foetal develop-	:	Test Type: Development Result: Embryo-foetal toxicity, Specific developmental abnor malities, Skeletal malformations					
	Reprod sessme	uctive toxicity - As- nt	:	Studies indicating od, May damage	a hazard to babies during the lactation peri- the unborn child.				
E	Bacitra	cin:							
		on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials				
	Effects ment	on foetal develop-	:	Species: Rat Application Route Result: negative	o-foetal development : Ingestion on data from similar materials				
r	orednis	solone:							
-		on fertility	:	Species: Rat Application Route	1 mg/kg body weight				
	Effects ment	on foetal develop-	:	Species: Mouse Application Route Developmental To	o-foetal development : Oral oxicity: LOAEL: 0,5 mg/kg body weight ions were observed., Cleft palate				
				Species: Rat Application Route	oxicity: LOAEL: 30 mg/kg body weight				



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		Developmen	t Route: Subcutaneous tal Toxicity: NOAEL: 25 mg/kg body weight ffects on foetal development
Repro sessn	oductive toxicity - As- nent	: Some evider animal expe	nce of adverse effects on development, based on riments.
	- single exposure assified based on ava	ilable information.	
	• repeated exposure assified based on ava		
Comp	oonents:		
Neom	ycin, sulfate (salt):		
Targe	t Organs ssment	: Kidney, inne : May cause c exposure.	r ear lamage to organs through prolonged or repeated
Rema	ırks		man experience.
totrac	cycline hydrochlorid		
	sure routes	: Oral	
Targe	t Organs ssment	: Gastrointesti	nal tract, Nervous system, Skin, Teeth lamage to organs through prolonged or repeated
Bacit	racin:		
	ssment		nt health effects observed in animals at concentra mg/kg bw or less.
predr	nisolone:		
Targe	t Organs ssment		v, Adrenal gland, Liver age to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Neom	ycin, sulfate (salt):		
Speci	es	: Mouse	
LÖAE		: 30 mg/kg	
	cation Route	: Subcutaneo	JS
	sure time t Organs	: 14 d : Kidney	
Speci	-	: Guinea pig	
Speci	63	. Guinea pig	

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Expos		: 50 mg/kg : 100 mg/kg : Intramuscular : 30 - 60 Weeks : ear	
	EL cation Route sure time	: Guinea pig : 10 mg/kg : Oral : 90 d : No significant ad	verse effects were reported
		: Guinea pig : 100 mg/kg : Subcutaneous : 34 d	
Expos		: Dog : 24 mg/kg : Intramuscular : 30 d : Kidney	
Expos	L cation Route sure time t Organs toms	: Rat : 25 mg/kg : oral (feed) : 84 Weeks : ear : hearing loss : mortality observe	d
Expos		: Dog : 20 mg/kg : Subcutaneous : 90 d : Kidney	
Specie NOAE LOAE Applic	EL	: Rat : 625 mg/kg : 1.250 mg/kg : oral (feed) : 13 W	
	t Organs toms	: Liver : Reduced body w : Mouse	eight
NOAE LOAE Applic	EL	: 3.750 mg/kg : 7.500 mg/kg : oral (feed) : 13 W	

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Sym	ptoms	:	Reduced body w	eight
Spec LOA Appl Expo		:	Rat > 10 mg/kg Ingestion 13 Weeks Based on data fr	om similar materials
prec Spec LOA Appl Expo	Inisolone: cies	:	Rat 0,6 mg/kg Oral 63 Days Bone marrow	
Expo		:	Dog 2,5 mg/kg Oral 6 Weeks Adrenal gland	
Expo		:	Rabbit 1 mg/kg Oral 24 Weeks Liver	

Aspiration toxicity

Not classified based on available information.

Components:

tetracycline hydrochloride:

Not applicable

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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Expe	rience with human e	xposure	
<u>Com</u>	ponents:		
Neor	nycin, sulfate (salt):		
Skin	contact		: Sensitisation May irritate skin.
Eye	contact		May cause eye irritation.
Inges	stion	: Symptoms loss, Loss	: Nausea, Vomiting, Diarrhoea, tinnitus, hearing of balance
tetra	cycline hydrochlorid	e:	
Inges	stion	Diarrhoea, effects Remarks: I May cause	ans: Teeth : Gastrointestinal disturbance, Nausea, Vomiting, Liver effects, skin rash, central nervous system May cause sensitisation of susceptible persons. photosensitisation. Human Evidence
pred	nisolone:		
Inges	stion	• •	: sodium retention, Headache, Vertigo, fluid reten- taneous bleeding, striae, skin atrophy, menstrual

SECTION 12: Ecological information

12.1 Toxicity

Components:	
Neomycin, sulfate (salt):	
Toxicity to daphnia and other aquatic invertebrates	 EC50 (Daphnia magna (Water flea)): > 72 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
	LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035
Toxicity to algae/aquatic plants	 EC50 (Anabaena flos-aquae (cyanobacterium)): 0,00075 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Anabaena flos-aquae (cyanobacterium)): 0,0003 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	EC50 (Pseudokirchneriella subcapitata (green algae)): 0,0099 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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			0,0022 mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 2 h est Guideline 201
M-Fac icity)	M-Factor (Acute aquatic tox- icity)		1.000	
Toxicity to microorganisms		:	Exposure time: 3 Test Type: Respi	
			Exposure time: 3 Test Type: Respi	
M-Fac toxicit	tor (Chronic aquatic y)	:	10	
tetrac	ycline hydrochloride:			
Toxici plants	ty to algae/aquatic	:	EC50 (Anabaena Exposure time: 7	flos-aquae (cyanobacterium)): 6,2 mg/l 2 h
			NOEC (Anabaen Exposure time: 7	a flos-aquae (cyanobacterium)): 2,5 mg/l 2 h
			EC50 (Pseudokir mg/l Exposure time: 7	chneriella subcapitata (green algae)): 3,31 2 h
			NOEC (Pseudoki mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 0,032 2 h
			EC50 (Microcysti Exposure time: 7	s aeruginosa (blue-green algae)): 0,09 mg/l d
M-Fac icity)	ctor (Acute aquatic tox-	:	10	
Toxici	ty to microorganisms	:	EC50 : 0,08 mg/l Exposure time: 3 Test Type: Respi Method: OECD T	
M-Fac toxicit	ctor (Chronic aquatic y)	:	1	
Bacitr	acin:			



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	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Artemia salina (brine shrimp)): 21,8 mg/l Exposure time: 48 h		
	Toxicity plants	to algae/aquatic	:	EC50 (Anabaena Exposure time: 10 Method: OECD To		
	prednis	solone:				
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 85 mg/l 3 h	
	Toxicity plants	to algae/aquatic : NOEC (Pseudokirchi mg/l Exposure time: 72 h		mg/l	rchneriella subcapitata (green algae)): 160 ? h	
				EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 160 ? h	
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0,23 mg/l Exposure time: 7 Species: Cerioda	d ohnia dubia (water flea)	
12.2 Persistence and degradability			ity			
	Compo	onents:				
	-	r cin, sulfate (salt): radability	:	Result: rapidly de	gradable	

Biodegradability	: Result: rapidly degradable
	Biodegradation: 50 %
	Exposure time: 1,2 d
	Method: OECD Test Guideline 314

12.3 Bioaccumulative potential

Components:

Neomycin, sulfate (salt): Partition coefficient: n- octanol/water	:	log Pow: < -2
tetracycline hydrochloride:		
Partition coefficient: n- octanol/water	:	log Pow: -1,37 pH: 7
Bacitracin:		
Partition coefficient: n- octanol/water	:	log Pow: -0,8
prednisolone:		



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Partition coefficient: n- octanol/water		: log) Pow: 1,46				
	i lity in soil ata available						
12.5 Resu	Ilts of PBT and vPvB a	issessm	ent				
Prod	uct:						
Asse	ssment	to vei	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				
12.6 Endo	ocrine disrupting prop	erties					
Prod	uct:						
Asse	ssment	ere RE (El	ed to have end ACH Article 5	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.			
12 7 Othe	r adverse effects						
	ata available						
SECTION	SECTION 13: Disposal considerations						
13.1 Wast	e treatment methods						
Produ				ordance with local regulations.			

Product	:	Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in
Contaminated packaging	:	discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082



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ΙΑΤΑ		:	UN 3082			
14.2 UN pi	roper shipping name					
ADN		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, ie (salt), tetracycline hydrochloride)		
ADR		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (Neomycin, sulfate (salt), tetracycline hydrochloride)			
RID		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (Neomycin, sulfate (salt), tetracycline hydrochloride)			
IMDG		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIC N.O.S. (Neomycin, sulfate (salt), tetracycline hydrochloride)			
ΙΑΤΑ		: Environmentally hazardous substance, (Neomycin, sulfate (salt), tetracycline h				
14.3 Transport hazard class(es)						

Subsidiary risks

	Class
:	9
:	9
:	9
:	9
:	9
	::

14.4 Packing group

ADN Packing group Classification Code Hazard Identification Number Labels	: : : :	III M6 90 9
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code		III M6 90 9 (-)
RID Packing group Classification Code Hazard Identification Number Labels IMDG		III M6 90 9

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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Packing group Labels EmS Code		::	III 9 F-A, S-F		
	aircraft Packing	g instruction (cargo) g instruction (LQ)	:	964 Y964	
	Packing Labels	g group	:	III Miscellaneous	
		Passenger) g instruction (passen-	:	964	
		g instruction (LQ)	:	Y964 III Miscellaneous	
14.5		nmental hazards			
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	mentally hazardous	:	yes	
	RID Enviror	mentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
		Passenger) Imentally hazardous	:	yes	
	IATA (Enviror	Cargo) Imentally hazardous	:	yes	
14.6	Specia	I precautions for use	r		

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Prednisolone / Neomycin / Tetracycline / Bacitracin Formulation

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				Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.
				Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not.
	CH - Candidate List of cern for Authorisation (Substances of Very High Article 59).	:	Not applicable
REA		s subject to authorisation	:	Not applicable
· ·	ulation (EC) on substar	nces that deplete the ozon	e :	Not applicable
Reg		on persistent organic pol	lu- :	Not applicable
Regi men	ulation (EU) No 649/20	12 of the European Parlia erning the export and impo		Not applicable
		8/EU of the European Pa	rliamen	t and of the Council on the control of

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity	Quantity 2
E1	ENVIRONMENTAL	100 t	200 t
	HAZARDS		

Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information



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Other	information	:		ges have been made to the previous version the body of this document by two vertical	
Full te	ext of H-Statements				
H302 H317 H360E H361c H362 H372		:	May damage the Suspected of dam May cause harm	ergic skin reaction.	
H373		:	exposure. May cause damag	ge to organs through prolonged or repeated	
H373		:	exposure. May cause damaged exposure if swallo	ge to organs through prolonged or repeated wed.	
H400 H410 H411		:	Very toxic to aqua Very toxic to aqua		
Full te	ext of other abbreviation	ons			
Aquati Lact. Repr. Skin S STOT FOR-2 FOR-2 TWA	c Acute c Chronic ens. RE 2011-12-06-1358 2011-12-06-1358 /		Norway. Occupati Long term exposu	c) aquatic hazard actation city gan toxicity - repeated exposure onal Exposure limits are limit	
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test- ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regula- tion (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergen- cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as- sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La- boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships car- rying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - Interna-					

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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-



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fect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

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

Classification of the mix	Classification procedure:	
Skin Sens. 1	H317	Calculation method
Repr. 1A	H360D	Calculation method
Lact.	H362	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

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.

NO / EN