

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
5.1	28.09.2024	5500056-00014	Date of first issue: 10.03.2020

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

1.1 Product identifier Trade name	:	Dexamethasone / Chlorphenamine Hydrogen Maleate Formu- lation		
1.2 Relevant identified uses of t	he s	substance or mixture and uses advised against		
Use of the Sub- stance/Mixture	:	Veterinary medicine		
Recommended restrictions on use	:	Not applicable		
1.3 Details of the supplier of the safety data sheet				
Company	:	MSD Kilsheelan Clonmel Tipperary, IE		
Telephone	:	353-51-601000		
E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com		

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

	,
Acute toxicity, Category 4	H302: Harmful if swallowed.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.
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.



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)Hazard pictograms:			
Hazard statements : H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breath- ing difficulties if inhaled. H361d Suspected of damaging the unborn child. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements : P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.		No 1272/200	8)
 H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breath- ing difficulties if inhaled. H361d Suspected of damaging the unborn child. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements : Prevention: P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. 	Signal word :	Danger	▼ ▼
 P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. 	Hazard statements :	H317 H319 H334 H361d	May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breath- ing difficulties if inhaled. Suspected of damaging the unborn child.
 P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. 	Precautionary statements :	Prevention	:
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.		P273	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye
keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.		Response:	
		P342 + P31	keep comfortable for breathing.1 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

Dihydrostreptomycin sulphate 2-(4-Aminobenzoyloxy)ethyldiethylammonium (6R)-6-(2-phenylacetamido)penicillanate monohydrate Procaine hydrochloride

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 33.36 %

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.



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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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Dihydrostreptomycin sulphate	5490-27-7 226-823-7	Acute Tox. 4; H302 Skin Sens. 1; H317 Repr. 2; H361d Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10 Acute toxicity esti- mate Acute oral toxicity: 430 mg/kg	>= 50 - < 70
2-(4- Aminobenzo- yloxy)ethyldiethylammonium (6R)- 6-(2- phenylacetamido)penicillanate monohydrate	6130-64-9	Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 30 - < 50
Procaine hydrochloride	51-05-8 200-077-2	Acute Tox. 3; H301 Acute toxicity esti- mate Acute oral toxicity: 200 mg/kg	>= 1 - < 10
Chlorphenamine hydrogen male- ate	113-92-8 204-037-5	Eye Dam. 1; H318 STOT SE 3; H336 STOT RE 2; H373 (Cardio-vascular system)	>= 1 - < 3
Dexamethasone	50-02-2	Repr. 1B; H360D	>= 0.025 - <

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		200-003-9	STOT RE 2; H373 (Adrenal gland, Im- mune system, thy- mus gland) Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 1	0.1

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- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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).
If inhaled	:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Risks

: Harmful if swallowed.



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			Causes serious e May cause allerg ties if inhaled.	ergic skin reaction. ye irritation. y or asthma symptoms or breathing difficul- naging the unborn child.
			other respiratory	ure may aggravate preexisting asthma and disorders (e.g. emphysema, bronchitis, reac- unction syndrome).
	cation of any immediate atment	meo :		d special treatment needed
SECTIC	DN 5: Firefighting mea	sur	es	
5.1 Extir	nguishing media			
	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical	
Uns	uitable extinguishing dia	:	None known.	
5.2 Spec	cial hazards arising from	the	e substance or mi	xture
Spe figh	cific hazards during fire- ting	:	Exposure to com	bustion products may be a hazard to health.
Haz ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides (Sulphur oxides Chlorine compou Metal oxides	,
5.3 Advi	ce for firefighters			
	cial protective equipment irefighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spe ods	cific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do



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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 pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers)

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

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 contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable
		mine 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.

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	:	Use only with adequate 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
		practice, based on the results of the workplace exposure as- sessment

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ł	Hygier	e measures	:	to asthma, allergi should consult the tory irritants or see Do not eat, drink Take care to preve environment. If exposure to che flushing systems place. When usin work clothing sho Wash contaminat The effective ope engineering contr appropriate dego	d individuals, and those susceptible es, chronic or recurrent respiratory disease, eir physician regarding working with respira- insitisers. or smoke when using this product. rent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working g do not eat, drink or smoke. Contaminated uld not be allowed out of the workplace. red clothing before re-use. ration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the
7.2 C	onditi	ons for safe storage,	inc	luding any incom	patibilities
	•	ements for storage and containers	:		labelled containers. Store locked up. Keep ore in accordance with the particular national
	Advice	on common storage	:	Do not store with Strong oxidizing a Gases	the following product types: agents
739	nocifi	c end use(s)			
	-	c use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis				
Dihydrostreptomy- cin sulphate	5490-27-7	TWA	OEB 2 (>= 100 < 1000 µg/m3)	Internal				
		TWA	0.4 mg/m3	Customer derived OEL				
Chlorphenamine hydrogen maleate	113-92-8	TWA	10 µg/m3 (OEB 3)	Internal				
	Further inform	nation: Skin						
		Wipe limit	100 µg/100 cm2	Internal				
Dexamethasone	50-02-2	TWA	10 µg/m3 (OEB 3)	Internal				
	Further inform	Further information: Skin						
		Wipe limit	100 µg/100 cm²	Internal				

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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
Remarks Skin and body protection	:	Consider double gloving. 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.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 143 Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

:	suspension
:	white
:	No data available
	•

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	range				
	Flamm	ability (solid, gas)	:	Not applicable	
	Flammability (liquids)		:	Not applicable	
	Upper explosion limit / Upper flammability limit		:	No data available	e
		explosion limit / Lower ability limit	:	No data available	9
	Flash p	point	:	No data available	e
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	рН		:	5.0 - 6.0 No data available	9
	Viscos Visc	ity cosity, kinematic	:	No data available	9
	Solubil Wa	ity(ies) ter solubility	:	No data available	9
	Partitio octano	n coefficient: n- I/water	:	Not applicable	
	Vapou	r pressure	:	No data available	9
	Relativ	e density	:	No data available	9
	Density	Į	:	1.17 - 1.21 g/cm ³ No data available	
	Relativ	e vapour density	:	No data available	9
		e characteristics ticle size	:	Not applicable	
9.2 0	Other in	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapoi	ration rate	:	No data available	9



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Mole	cular weight	: No data avai	lable
SECTION	N 10: Stability and re	eactivity	
1 0.1 Reac Not c	tivity lassified as a reactivity	hazard.	
	nical stability e under normal conditic	ons.	
10.3 Poss	sibility of hazardous re	eactions	
	rdous reactions		th strong oxidizing agents.
	ditions to avoid		
Cond	litions to avoid	: None known	
10.5 Inco	mpatible materials		
Mate 10.6 Haza	rials to avoid	-	
Mate 10.6 Haza No ha SECTION 11.1 Infor	rials to avoid ardous decomposition azardous decomposition N 11: Toxicological i mation on hazard clas mation on likely routes o	products n products are know nformation sses as defined in	
Mate 10.6 Haza No ha SECTION 11.1 Infor Inforr expos	rials to avoid ardous decomposition azardous decomposition N 11: Toxicological i mation on hazard clas mation on likely routes o	n products n products are know information sses as defined in l of : Inhalation Skin contact Ingestion	'n.
Mate 10.6 Haza No ha SECTION 11.1 Inforr expose Acute Harm <u>Prod</u>	rials to avoid ardous decomposition azardous decomposition N 11: Toxicological i mation on hazard class mation on likely routes o sure e toxicity aful if swallowed.	 products n products are know information sses as defined in log of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity 	'n.
Mate 10.6 Haza No ha SECTION 11.1 Inforr expose Acute Harm <u>Prod</u> Acute	rials to avoid ardous decomposition azardous decomposition N 11: Toxicological i mation on hazard clas mation on likely routes o sure e toxicity aful if swallowed. <u>uct:</u>	 products n products are know information sses as defined in log of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity 	rn. Regulation (EC) No 1272/2008 estimate: 709.59 mg/kg
Mate 10.6 Haza No ha SECTION 11.1 Inforr expose Acute Harm <u>Prod</u> Acute	rials to avoid ardous decomposition azardous decomposition N 11: Toxicological i mation on hazard clas mation on likely routes of sure e toxicity aful if swallowed. <u>uct:</u> e oral toxicity	 products n products are know information sses as defined in log of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity Method: Calco 	rn. Regulation (EC) No 1272/2008 estimate: 709.59 mg/kg



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Acute	oral toxicity	:	LD50 (Mouse): > 2	2,000 mg/kg
Proca	ine hydrochloride:			
	oral toxicity	:	LD50 (Rat): 200 n	ng/kg
Chlor	phenamine hydrogen r	nal	eate:	
Acute	inhalation toxicity	:	LC50 (Rat): 0.61 Exposure time: 4 Test atmosphere:	h
	toxicity (other routes of istration)	:	LD50 (Rat): 89 m	g/kg
Dexan	nethasone:			
Acute	oral toxicity	:	LD50 (Rat): > 2,00	00 mg/kg
			LD50 (Mouse): >	6,500 mg/kg
	toxicity (other routes of istration)	:	LD50 (Rat): 14 mg Application Route	
Skin c Not cla	corrosion/irritation assified based on availa	ble	information.	
Skin c Not cla <u>Comp</u> 2-(4-A	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl			
Skin c Not cla <u>Comp</u> 2-(4-A	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate:			
Skin c Not cla <u>Comp</u> 2-(4-A monol Result	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate:	die :	thylammonium (6 No skin irritation	
Skin c Not cla <u>Comp</u> 2-(4-A monol Result	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r	die :	thylammonium (6 No skin irritation eate: Rabbit	R)-6-(2-phenylacetamido)penicillan
Skin c Not cla <u>Comp</u> 2-(4-A monol Result	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r	die :	thylammonium (6 No skin irritation eate:	
Skin c Not cla <u>Comp</u> 2-(4-A monol Result Chlor Specie Result	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r	die :	thylammonium (6 No skin irritation eate: Rabbit	
Skin c Not cla <u>Comp</u>	corrosion/irritation assified based on availa onents:			
Skin c Not cla <u>Comp</u> 2-(4-A monol Result Chlorj Specie Result Dexan	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r es methasone:	die :	thylammonium (6 No skin irritation eate: Rabbit No skin irritation Rabbit	R)-6-(2-phenylacetamido)penicillar
Skin c Not cla <u>Comp</u> 2-(4-A monol Result Chlorj Specie Result Dexan	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r es methasone:	die :	thylammonium (6 No skin irritation eate: Rabbit No skin irritation	R)-6-(2-phenylacetamido)penicillan
Skin c Not cla <u>Comp</u> 2-(4-A monol Result Chlorj Specie Result Dexan Specie Result	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r es methasone:	die : mal :	thylammonium (6 No skin irritation eate: Rabbit No skin irritation Rabbit Mild skin irritation	R)-6-(2-phenylacetamido)penicillan
Skin c Not cla Comp 2-(4-A monol Result Chlory Specie Result Dexan Specie Result	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r es nethasone:	die : mal :	thylammonium (6 No skin irritation eate: Rabbit No skin irritation Rabbit Mild skin irritation	R)-6-(2-phenylacetamido)penicillan
Skin c Not cla Comp 2-(4-A monol Result Chlorj Specie Result Dexan Specie Result Seriou Cause	corrosion/irritation assified based on availa onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r es nethasone: es	die : mal :	thylammonium (6 No skin irritation eate: Rabbit No skin irritation Rabbit Mild skin irritation	R)-6-(2-phenylacetamido)penicillan
Skin c Not cla Comp 2-(4-A monol Result Chlory Specie Result Dexan Specie Result Seriou Cause Comp 2-(4-A	corrosion/irritation assified based on availation onents: minobenzoyloxy)ethyl hydrate: phenamine hydrogen r es nethasone: es us eye damage/eye irrites serious eye irritation. conents:	die : : : tati	thylammonium (6 No skin irritation eate: Rabbit No skin irritation Rabbit Mild skin irritation on	R)-6-(2-phenylacetamido)penicillan

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Specie Resul		:	Rabbit Severe irritation	
Dexar	methasone:			
Species Result			Rabbit Mild eye irritatior	1
Respi	iratory or skin sensi	itisatio	n	
-	sensitisation ause an allergic skin	reactic	n.	
-	iratory sensitisation ause allergy or asthn		ptoms or breathir	g difficulties if inhaled.
<u>Comp</u>	oonents:			
Dihyd	Irostreptomycin sul	phate:		
Test T		:		sult patch test (HRIPT)
	sure routes	:	Skin contact	
Specie Resul		:	Humans positive	
Rema		:		om similar materials
Asses	sment	:	Probability or evi	dence of skin sensitisation in humans
	Aminobenzoyloxy)et ohydrate:	hyldie	thylammonium (6R)-6-(2-phenylacetamido)penicillanate
Test T	•		Maximisation Te	st
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Metho		:	OECD Test Guid	leline 406
Resul		:	positive	
Rema	irks	:	Based on data fr	om similar materials
Asses	ssment	:	Probability or evi	dence of skin sensitisation in humans
Asses	ssment	:	Probability of respiratory sensitisation in humans based on animal testing	
Chlor	phenamine hydroge	en mal	eate:	
	sure routes	:	Dermal	
Rema			No data available	

Germ cell mutagenicity

Not classified based on available information.



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<u>Comp</u>	oonents:			
Proca	ine hydrochloride:			
Genot	oxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) on data from similar materials
Chlor	phenamine hydrogen	mal	eate:	
Genot	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: Mouse Result: negative	e Lymphoma
				chromatid exchange assay nese hamster ovary cells
			Test Type: DNA of thesis in mamma Test system: rat l Result: negative	
Germ sessm	cell mutagenicity- As- nent	:	Weight of eviden cell mutagen.	ce does not support classification as a ger
Dexar	nethasone:			
Genot	oxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: in vitro Test system: mou Result: negative	o assay use lymphoma cells
Genot	oxicity in vivo	:	Test Type: Micro Species: Mouse Application Route Result: negative	
	nogenicity			
Not cla	assified based on availa	able	information.	

Chlorphenamine hydrogen maleate:

Species	:	Rat
Application Route	:	Oral
Exposure time	:	2 Years
NOAEL	:	30 - 60 mg/kg body weight
Result	:	negative



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Applic Expos NOAE	Species:Application Route:Exposure time:NOAEL:Result:		Mouse Oral 2 Years 20 - 50 mg/kg body weight negative			
-	Reproductive toxicity Suspected of damaging the unborn child.					
Comp	onents:					
Dihyd	rostreptomycin sulph	nate:				
Repro sessm	,	:	Some evidence o animal experimer	f adverse effects on development, based on ts.		
Chlor	phenamine hydrogen	mal	eate:			
Effects	s on fertility	:	Species: Rat Application Route Fertility: LOAEL:	eneration reproduction toxicity study : Oral 20 mg/kg body weight s on fertility, No effects on foetal development		
Effects	s on foetal develop-	:	Species: Mouse Application Route Developmental To Result: Reduced observed.	ro-foetal development :: Oral oxicity: NOAEL: 20 mg/kg body weight embryonic survival, No malformations were nificance of these findings for humans is not		
			Species: Rabbit Application Route Developmental To	ro-foetal development :: Oral oxicity: LOAEL: 15 mg/kg body weight cant adverse effects were reported		
	nethasone: s on foetal develop-	:	Result: Specific d Species: Rabbit Application Route Developmental To	: Subcutaneous oxicity: LOAEL: 6 mg/kg body weight evelopmental abnormalities, Cleft palate		

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



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		Developmenta	bit bute: Intramuscular al Toxicity: LOAEL: >= 0.062 mg/kg body weight ic developmental abnormalities	
		Developmenta	oute: Subcutaneous al Toxicity: LOAEL: >= 0.02 mg/kg body weight al and visceral variations, Retardations	
Repr	oductive toxicity - As- ment	: May damage the unborn child.		
	F - single exposure classified based on avail	able information.		
<u>Com</u>	ponents:			
Chlo	rphenamine hydrogen	maleate:		
Asse	ssment	: May cause dro	owsiness or dizziness.	
	F - repeated exposure lassified based on avail	ted exposure based on available information.		
Com	Components:			
Chlo	rphenamine hydrogen	maleate:		
Targe	et Organs ssment	: Cardio-vascula	ar system mage to organs through prolonged or repeated	
Dexa	methasone:			
Targe	sure routes et Organs ssment		, Immune system, thymus gland mage to organs through prolonged or repeated	
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Chlo	rphenamine hydrogen	maleate:		
Spec NOA		: Rat : 10 mg/kg		
Appli	cation Route	: Oral		
	sure time	: 6 Weeks : No significant	adverse effects were reported	
Spec		: Monkey		
LOAE Appli	EL cation Route	: 15 mg/kg : Oral		
Чри		. Jiai		

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Dexamethasone / Chlorphenamine Hydrogen Maleate Formulation

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	sure time et Organs	: 105 Weeks : Heart					
	methasone:						
Expo	EL cation Route sure time et Organs	: Rat : 0.0015 mg/kg : Oral : 7 d : Liver : Significant toxid	: 0.0015 mg/kg : Oral : 7 d				
Expo	EL cation Route sure time et Organs		gland, thymus gland city observed in testing				
Expo	EL cation Route sure time et Organs	: Rat : 0.125 mg/kg : Oral : 6 Weeks : Adrenal gland : Significant toxi	city observed in testing				
Expo	EL cation Route sure time et Organs	: Rat : 0.4 mg/kg : Oral : 3 Months : Immune syster : Significant toxi	n city observed in testing				
Expo	EL cation Route sure time et Organs	 Dog 8 mg/kg Oral 3 Months Immune system Significant toxicity observed in testing 					

Aspiration toxicity

Not classified based on available information.

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



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		levels of 0.1% of	or higher.			
Expe	Experience with human exposure					
<u>Com</u>	ponents:					
Dihyo	drostreptomycin sul	phate:				
Gene	ral Information		Target Organs: ear Symptoms: hearing loss			
Chlorphenamine hydrogen mal		en maleate:				
Inhala	ation		tral nervous system effects cause respiratory tract irritation.			
Skin o	contact	: Remarks: May				
Eye c	contact	: Symptoms: Eye Remarks: May	e irritation cause irreversible eye damage.			
Inges	tion		ntral nervous system effects ed on Human Evidence			
Dexamethasone:						
Inges	ition	Target Organs: Target Organs:	: Target Organs: Immune system Target Organs: Adrenal gland Target Organs: Bone Symptoms: muscle weakness			

SECTION 12: Ecological information

12.1 Toxicity

Components:

Dihydrostreptomycin	sulphate:
---------------------	-----------

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 : > 0.01 - 0.1 mg/l Remarks: Based on data from similar materials
M-Factor (Acute aquatic tox- icity)	:	10
M-Factor (Chronic aquatic toxicity)	:	10



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	2-(4-Aminobenzoyloxy)ethyl monohydrate:			thylammonium (6	R)-6-(2-phenylacetamido)penicillanate	
	Ecoto	kicology Assessment				
	Acute aquatic toxicity		:	Toxic effects cann	not be excluded	
	Chroni	c aquatic toxicity	:	Toxic effects cannot be excluded		
	Procai	ne hydrochloride:				
	Ecoto	kicology Assessment				
	Acute	aquatic toxicity	:	Toxic effects cann	not be excluded	
	Chroni	c aquatic toxicity	:	Toxic effects cann	not be excluded	
	Dexan	nethasone:				
		y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		
	Toxicit	y to microorganisms	:	EC50 : > 1,000 m Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition	
				NOEC : 1,000 mg Exposure time: 3 Test Type: Respir Method: OECD Te	h ation inhibition	
	Toxicit icity)	y to fish (Chronic tox-	:	NOEC: 0.033 mg/ Exposure time: 32 Species: Pimepha Method: OECD Te	2 d ales promelas (fathead minnow)	
	M-Fact toxicity	tor (Chronic aquatic	:	1		



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12.2 Persistence and degradability

Components:

Dexamethasone:

Biodegradability

: Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 3.54 d Method: OECD Test Guideline 314

(BCF): 3.16

12.3 Bioaccumulative potential

Components:

Dihydrostreptomycin sulphate:					
	Bioaccumulation	:	Species: Fish Bioconcentration factor		
	Partition coefficient: n- octanol/water	:	log Pow: -7.51		
	Procaine hydrochloride:				

Procaine hydrochloride:

Partition coefficient: n-	:	log Pow: 1.389	
octanol/water			
Doxamothasono:			

Dexamethasone:

Partition coefficient: n-	:	log Pow: 1.83
octanol/water		

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	 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.
	er ve er nighten

12.6 Endocrine disrupting properties

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.

12.7 Other adverse effects

No data available



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SECTION 13: Disposal considerations

13.1 Waste treatment methods	
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 discussion with the waste disposal authorities. 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.

SECTION 14: Transport information

ADR

RID

14.1 UN number or ID number			
ADN	:	UN 3082	
ADR	:	UN 3082	
RID	:	UN 3082	
IMDG	:	UN 3082	
ΙΑΤΑ	:	UN 3082	
14.2 UN proper shipping name			
ADN	:	ENVIRONMENTALLY N.O.S. (Dihydrostreptomycin	(HAZARDOUS SUBSTANCE, LIQUID, sulphate)
ADR	:	ENVIRONMENTALLY N.O.S. (Dihydrostreptomycin	Y HAZARDOUS SUBSTANCE, LIQUID, sulphate)
RID	:	ENVIRONMENTALLY N.O.S. (Dihydrostreptomycin	(HAZARDOUS SUBSTANCE, LIQUID, sulphate)
IMDG	:	ENVIRONMENTALLY N.O.S. (Dihydrostreptomycin	(HAZARDOUS SUBSTANCE, LIQUID, sulphate)
ΙΑΤΑ	:	Environmentally haza (Dihydrostreptomycin	rdous substance, liquid, n.o.s. sulphate)
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADN	:	9	

: 9

: 9

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



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	DG TA	: 9 : 9	
14.4 Pa	acking group		
Pa Cli Ha	DN acking group assification Code azard Identification Number bels	: III : M6 : 90 : 9	
Pa Cli Ha La	DR acking group assification Code azard Identification Number bels unnel restriction code	: III : M6 : 90 : 9 : (-)	
Cla Ha	D acking group assification Code azard Identification Number bels	: III : M6 : 90 : 9	
Pa La	DG acking group bels nS Code	: III : 9 : F-A, S-F	
Pa air Pa Pa	TA (Cargo) acking instruction (cargo ccraft) acking instruction (LQ) acking group bels	: 964 : Y964 : III : Miscellane	ous
Pa ge Pa Pa	TA (Passenger) acking instruction (passen- er aircraft) acking instruction (LQ) acking group bels	: 964 : Y964 : III : Miscellane	ous
14.5 Er	nvironmental hazards		
AI Er	DN nvironmentally hazardous	: yes	
Er	DR Ivironmentally hazardous	: yes	
	vironmentally hazardous	: yes	
	DG arine pollutant	: yes	



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IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

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

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 conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not

		not.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone	:	Not applicable
layer		
Regulation (EU) 2019/1021 on persistent organic pollu-	:	Not applicable
tants (recast)		
Regulation (EU) No 649/2012 of the European Parlia-	:	Not applicable
ment and the Council concerning the export and import		
of dangerous chemicals		
REACH - List of substances subject to authorisation		Not applicable
•	•	not applicable
(Annex XIV)		



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	so III: Directive 2012/1 r-accident hazards inv			nt and of the Coun	cil on the control of
E1			NMENTAL	Quantity 1 100 t	Quantity 2 200 t
Othe	r regulations:				
where Take	note of Directive 92/8 e applicable. note of Directive 94/3 ations, where applicab	3/EC on the prote			-
	components of this p	-		owing inventories	5:
AICS		: not deterr	mined		
DSL		: not deterr	mined		
IECS	С	: not deter	mined		
15.2 Cher	nical safety assessm	ient			
A Chemica	al Safety Assessment	has not been car	ried out.		
SECTION	N 16: Other informa	ation			
Othor	rinformation	· Itomo wh	ara ahangaa ha	va haan mada ta ti	he previous version

Other information		s where changes have been made to the previous version highlighted in the body of this document by two vertical
Full text of H-Statements		
H301	Toxi	c if swallowed.
H302	Harr	nful if swallowed.
H317	May	cause an allergic skin reaction.
H318	Cau	ses serious eye damage.
H334	-	cause allergy or asthma symptoms or breathing difficul- if inhaled.
H336	May	cause drowsiness or dizziness.
H360D	May	damage the unborn child.
H361d		pected of damaging the unborn child.
H373		cause damage to organs through prolonged or repeated osure if swallowed.
H400	Very	toxic to aquatic life.
H410	Very	toxic to aquatic life with long lasting effects.
Full text of other abbreviatior	5	
Acute Tox. Aquatic Acute Aquatic Chronic Eye Dam. Repr. Resp. Sens.	Shor Lon Serie Rep	e toxicity rt-term (acute) aquatic hazard g-term (chronic) aquatic hazard ous eye damage roductive toxicity piratory sensitisation



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Skin S STOT	ΓRE		t organ toxicity - repeated exposure
STOT SE		: Specific targe	t organ toxicity - single exposure

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 Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (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 - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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

Classification of the mi	xture:	Classification procedure:
Acute Tox. 4	H302	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361d	Calculation method
Aquatic Acute 1	H400	Calculation method



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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.

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