

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.1	28.09.2024	5934729-00012	Date of first issue: 20.05.2020

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

: EHSDATASTEWARD@msd.com

1.1	Product identifier Trade name	:	Dihydrostreptomycin Sulfate Formulation
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD Kilsheelan Clonmel Tipperary, IE
	Telephone	:	353-51-601000

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)

Eye irritation, Category 2
Specific target organ toxicity - repeated
exposure, Category 1

H319: Causes serious eye irritation. H372: Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Signal word

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



H319

H372

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Hazard statements

Causes serious eye irritation. Causes damage to organs through prolonged or



Version 3.1	Revision Date: 28.09.2024	SDS Number: 5934729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020
			repeated exposure.
Preca	utionary statements	: Prevention:	
		P264	Wash skin thoroughly after handling.
			Do not eat, drink or smoke when using this prod-
		I	uct.
		P280	Wear eye protection/ face protection.
		Response:	
		P314	Get medical advice/ attention if you feel unwell.
		P337 + P313	If eye irritation persists: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Dihydrostreptomycin sulphate

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. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Dihydrostreptomycin sulphate	5490-27-7 226-823-7	STOT RE 1; H372 (ear, Kidney, inner ear)	>= 30 - < 50
Sodium metabisulphite	7681-57-4 231-673-0 016-063-00-2	Acute Tox. 4; H302 Eye Dam. 1; H318 EUH031	>= 1 - < 3
		Acute toxicity esti- mate	
		Acute oral toxicity: 1,540 mg/kg	

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

Dihydrostreptomycin Sulfate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.1	28.09.2024	5934729-00012	Date of first issue: 20.05.2020

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. Get medical attention if symptoms occur.			
In case of skin contact :	Wash with water and soap as a precaution. Get medical attention if symptoms occur.			
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 if symptoms occur. Rinse mouth thoroughly with water.			
4.2 Most important symptoms and effects, both acute and delayed				
Risks :	Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure.			

4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically 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.



Ver 3.1	sion	Revision Date: 28.09.2024		OS Number: 34729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020		
5.2	5.2 Special hazards arising from the substance or mixture						
	Specifi fighting	•	:	Exposure to comb	oustion products may be a hazard to health.		
	Hazard ucts	lous combustion prod-	:	Carbon oxides Sulphur oxides Metal oxides			
5.3	Advice	for firefighters					
	Specia for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.		
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

barriers).

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

cannot be contained.

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

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.
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Commission Regulation (EU) 2020/878



Dihydrostreptomycin Sulfate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.1	28.09.2024	5934729-00012	Date of first issue: 20.05.2020

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 Advice on safe handling	 Use only with adequate ventilation. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Hygiene measures	 Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment. Do not breathe decomposition products. 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. 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.
Conditions for safe storage, in	cluding any incompatibilities
•	Keep in properly labelled containers. Store in accordance with

7.2

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

cin sulphate

phite

Sodium metabisul-

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



IE OEL

Dihydrostreptomycin Sulfate Formulation

7681-57-4

VersionRevision Date:3.128.09.2024				ate of last issue: 06.04.2024 ate of first issue: 20.05.2020		
	Compo	onents	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dihydrostreptomy- 5490-27-7		5490-27-7	TWA	0.4 mg/m3 (OEB 2)		

Wipe limit

(TWA)

OELV - 8 hrs

Occupational exposure limits of decomposition products

Further information: OTO

occupational exposure mints of decomposition products							
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis			
Sulphur dioxide	7446-09-5	TWA	0.5 ppm 1.3 mg/m3	2017/164/EU			
	Further inform	nation: Indicative					
		STEL	1 ppm 2.7 mg/m3	2017/164/EU			
	Further inform	nation: Indicative					
		OELV - 8 hrs (TWA)	0.5 ppm 1.3 mg/m3	IE OEL			
		OELV - 15 min (STEL)	1 ppm 2.7 mg/m3	IE OEL			

Not required

5 mg/m3

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
Sodium metabisul-	Workers	Inhalation	Long-term systemic	225 mg/m3
phite			effects	
	Consumers	Inhalation	Long-term systemic	66 mg/m3
			effects	_
	Consumers	Ingestion	Long-term systemic	8.6 mg/kg
		-	effects	bw/day

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

Substance name	Environmental Compartment	Value
Sodium metabisulphite	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Sewage treatment plant	75.4 mg/l

8.2 Exposure controls

Engineering measures

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

No open handling permitted.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

Personal protective equipment



Version 3.1	Revision Date: 28.09.2024	SDS Numb 5934729-00			
Eye/face protection		If the wo mists or Wear a potentia	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.		
Tiana	protection				
M	aterial	: Chemic	Chemical-resistant gloves		
Remarks Skin and body protection		: Work ur Additior task bei posable	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		
Resp	iratory protection	contami : If adequ sure ass ommen	inated clothing. Jate local exhaust ventilation is not available or expo- sessment demonstrates exposures outside the rec- ded guidelines, use respiratory protection. Jent should conform to I.S. EN 14387		
Fil	ter type		ned particulates and inorganic gas/vapour type (B-P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	No data available
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

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



Dihydrostreptomycin Sulfate Formulation

Ver 3.1	sion	Revision Date: 28.09.2024		S Number: 34729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020
	Auto-ię	gnition temperature	:	No data available	9
	Decon	nposition temperature	:	No data available	e
	рН		:	No data available	e
	Viscos Vis	ity cosity, kinematic	:	No data available	e
		lity(ies) ter solubility	:	No data available	e
		on coefficient: n- l/water	:	Not applicable	
	Vapour pressure		:	No data available	e
	Relative density		:	No data available	e
	Density		:	No data available	e
	Relative vapour density		:	No data available	e
		e characteristics ticle size	:	Not applicable	
9.2	Other i	nformation			
	Explos	sives	:	Not explosive	
	Oxidiz	ing properties	:	The substance o	r mixture is not classified as oxidizing.
	Evapo	ration rate	:	No data available	e
	Molec	ular weight	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity

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.
	Hazardous decomposition products will be formed at elevated
	temperatures.

10.4 Conditions to avoid



Versio 3.1		evision Date: 3.09.2024	-	S Number: 34729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020
С	Conditions	s to avoid	:	None known.	
	n compat laterials	ible materials to avoid	:	Oxidizing agents	
10.6 H	lazardou	is decomposition p	oroc	lucts	
TI	hermal d	ecomposition	:	Sulphur dioxide	
SECT	TION 11	: Toxicological in	for	mation	
11.1 lr	nformati	on on hazard class	ses	as defined in Reg	ulation (EC) No 1272/2008
	nformatio xposure	n on likely routes of	:	Inhalation Skin contact Ingestion Eye contact	
	cute tox lot classi	t icity fied based on availa	ble	information.	
	Product: Acute oral	toxicity	:	Acute toxicity esti Method: Calculati	mate: > 2,000 mg/kg on method
<u>c</u>	ompone	ents:			
D	hydros	treptomycin sulpha	ate:		
A	cute oral	toxicity	:	LD50 (Rat): 9,000) - 25,000 mg/kg
				LD50 Oral (Mouse	e): 30,000 mg/kg
S	odium n	netabisulphite:			
A	cute oral	toxicity	:	LD50 (Rat): 1,540 Method: OECD To	
A	cute inha	alation toxicity	:	LC50 (Rat): > 5.5 Exposure time: 4 Test atmosphere: Remarks: Based	h
A	cute deri	mal toxicity	:	LD50 (Rat): > 2,0 Method: OECD To Remarks: Based o	
S	kin oorr	osion/irritation			

Skin corrosion/irritation

Not classified based on available information.

Components:

Sodium metabisulphite:

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



Dihydrostreptomycin Sulfate Formulation

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.04.2024
3.1		5934729-00012	Date of first issue: 20.05.2020
Species Result Remarks Serious eye damage/eye i			on a from similar materials

Causes serious eye irritation.

Components:

Sodium metabisulphite:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Sodium metabisulphite:

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:				
Genotoxicity in vitro :	Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Result: negative			
Sodium metabisulphite:				
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative			
	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative			
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse			

Commission Regulation (EU) 2020/878



Dihydrostreptomycin Sulfate Formulation

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.04.2024
3.1		5934729-00012	Date of first issue: 20.05.2020
		••	te: Subcutaneous Test Guideline 474

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:

Species	:	Rat
Application Route	:	Oral
Exposure time	:	2 Years
NOAEL	:	5 mg/kg body weight
Result	:	negative

Sodium metabisulphite:

Mouse
Ingestion
24 Months
negative
Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:

Effects on foetal develop- : ment	Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 5 mg/kg body weight
	Test Type: Embryo-foetal development Species: Guinea pig Application Route: Intramuscular General Toxicity Maternal: LOAEL: 100 - 200 mg/kg body weight Developmental Toxicity: NOAEL: 10 mg/kg body weight Result: Maternal toxicity observed., Embryotoxic effects and adverse effects on the offspring were detected.
Sodium metabisulphite:	
Effects on fertility :	Test Type: Three-generation study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- :	Test Type: Embryo-foetal development



Version 3.1	Revision Date: 28.09.2024	SDS Number: 5934729-0001	
ment		Species: F Application Result: ne	n Route: Ingestion
	F - single exposure classified based on ava	ailable information	
	F - repeated exposur ses damage to organs		or repeated exposure.
<u>Com</u>	ponents:		
Dihy	drostreptomycin sul	phate:	
Asse	ssment	: Causes da exposure.	mage to organs through prolonged or repeated
Repe	eated dose toxicity		
<u>Com</u>	ponents:		
Dihy	drostreptomycin sul	phate:	
Spec		: Guinea piç	1
LOAE		: 40 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 90 d	
	otoms	: ear : hearing los	35
Spec	ies	: Cat	
LÖAI		: 100 mg/kg	
	cation Route	: Oral	
	sure time	: 60 d	
	et Organs otoms	: ear	aring loss, Reduced body weight
Cym			
Spec		: Cat	
LOAE		: 300 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 21 d : ear	
	otoms		aring loss, Reduced body weight
Sodi	um metabisulphite:		
Spec	-	: Rat	
NOA		: 110 mg/kg	
LOA		: 220 mg/kg	
	cation Route	: Ingestion	
Expo	sure time	: 104 Week	5

Aspiration toxicity

Not classified based on available information.



Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.1	28.09.2024	5934729-00012	Date of first issue: 20.05.2020

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.

Experience with human exposure

Components:

Dihydrostreptomycin sulphate:				
General Information		Symptoms: Erythema, hearing loss, Nausea, Rash, Vomiting, Headache, hypotension		

SECTION 12: Ecological information

12.1 Toxicity

Components:		
Sodium metabisulphite:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 178 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 89 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Desmodesmus subspicatus (green algae)): 43.8 mg/l Exposure time: 72 h
		EC10 (Desmodesmus subspicatus (green algae)): 33.3 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 30.8 mg/l Exposure time: 17 h
Toxicity to fish (Chronic tox- icity)	:	NOEC: >= 316 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: >= 10 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)



Version 3.1	Revision Date: 28.09.2024	SDS Number: 5934729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020		
	i stence and degrada ata available	bility			
	ccumulative potentiata available	al			
12.4 Mobi No da	lity in soil ata available				
12.5 Resu	lts of PBT and vPvE	3 assessment			
Prod	uct:				
Asse	ssment	to be either pe very persistent	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 pro	operties			
Prod	uct:				
Asse	ssment	ered to have e REACH Article (EU) 2017/210	: The substance/mixture does not contain components consid- ered 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.		
	r adverse effects ata available				

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

14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good



Version 3.1	Revision Date: 28.09.2024	SDS Number:Date of last issue: 06.04.20245934729-00012Date of first issue: 20.05.2020				
ΙΑΤΑ		: Not regulated as a dangerous good				
	roper shipping name					
ADN		: Not regulated as a dangerous good				
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMDG	ì	: Not regulated as a dangerous good				
ΙΑΤΑ		: Not regulated as a dangerous good				
14.3 Trans	sport hazard class(es	5 5 5				
ADN		: Not regulated as a dangerous good				
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMDG	ì	: Not regulated as a dangerous good				
ΙΑΤΑ		: Not regulated as a dangerous good				
14.4 Pack	ing group					
ADN		: Not regulated as a dangerous good				
ADR		: Not regulated as a dangerous good				
RID		: Not regulated as a dangerous good				
IMDG	ì	: Not regulated as a dangerous good				
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good				
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good				
-	14.5 Environmental hazards Not regulated as a dangerous good					
-	ial precautions for us	ir.				
14.7 Marit	ime transport in bulk	according to IMO instruments				
Rema	arks	: Not applicable for product as supplied.				
SECTION	15: Regulatory inf	rmation				

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.

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



Dihydrostreptomycin Sulfate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
3.1	28.09.2024	5934729-00012	Date of first issue: 20.05.2020

		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.
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Seveso III: Directive 2012/18/ELL of the European Parlian	nont	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.

Not applicable

Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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

Full text of H-Statements

H302	:	Harmful if swallowed.
H318	:	Causes serious eye damage.
H372	:	Causes damage to organs through prolonged or repeated

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



Dihydrostreptomycin Sulfate Formulation

Version 3.1	Revision Date: 28.09.2024		S Number: 34729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020				
			exposure if swalle	owed.				
EUH0	031	:	Contact with acids liberates toxic gas.					
Full to	ext of other abbreviation	ons						
Acute Tox. Eye Dam. STOT RE 2017/164/EU IE OEL		::	Acute toxicity Serious eye damage Specific target organ toxicity - repeated exposure Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values Ireland. List of Chemical Agents and Carcinogens with Occu- pational Exposure Limit Values - Code of Practice, Schedule and 2					
2017/164/EU / STEL : 2017/164/EU / TWA : IE OEL / OELV - 8 hrs (TWA) : IE OEL / OELV - 15 min : (STEL)			Short term exposure limit Limit Value - eight hours Occupational exposure limit value (8-hour reference period) Occupational exposure limit value (15-minute reference peri- od)					

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 : Internal technical data, data from raw material SDSs, OECD



Version 3.1	Revision Date: 28.09.2024	SDS Number: 5934729-00012	Date of last issue: 06.04.2024 Date of first issue: 20.05.2020
comp Shee	ile the Safety Data t	eChem Portal se cy, http://echa.eu	earch results and European Chemicals Agen- uropa.eu/
Class	sification of the mixtu	re:	Classification procedure:
Eye I	rrit. 2	H319	Calculation method
STOT	RE 1	H372	Calculation method

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