according to the OSHA Hazard Communication Standard



Dihydrostreptomycin Sulfate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
2.0	09/30/2023	5918690-00009	Date of first issue: 05/20/2020

SECTION 1. IDENTIFICATION

Product name	:	Dihydrostreptomycin Sulfate Formulation
Manufacturer or supplier's o	deta	ails
Company name of supplier Address	:	Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065
Telephone Emergency telephone E-mail address	:	908-740-4000
Recommended use of the c	her	nical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

SECTION 2. HAZARDS IDENTIFICATION

	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Eye irritation	:	Category 2A			
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (ear, Kidney, inner ear)			
GHS label elements					
Hazard pictograms	:				
Signal Word	:	Danger			
Hazard Statements	:	H319 Causes serious eye irritation. H372 Causes damage to organs (ear, Kidney, inner ear) through prolonged or repeated exposure if swallowed.			
Precautionary Statements	:	Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection and face protection.			
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical attention if you feel unwell. P337 + P313 If eye irritation persists: Get medical attention.			
		Disposal:			

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

CAS-No.	Concentration (% w/w)
5490-27-7	>= 30 - < 50
7681-57-4	>= 1 - < 5
	5490-27-7

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure if swallowed.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod-	:	Carbon oxides



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	ucts			Sulfur oxides Metal oxides	
	Specific extinguishing meth- ods		:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so.	
	Special for fire-f	protective equipment fighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	TION 6.	ACCIDENTAL RELE	ASE	EMEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures		:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environmental precautions		:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	a absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate and materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

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 vapors. 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



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Conditions for safe storage		Take care to pre environment. Do not breathe c	or smoke when using this product. vent spills, waste and minimize release to the lecomposition products. labeled containers.		
Materials to avoid		 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides 			
		Explosives Gases			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Dihydrostreptomycin sulphate	5490-27-7	TWA	0.4 mg/m3 (OEB 2)	
	Further information	ation: OTO		
		Wipe limit	Not required	
Sodium metabisulphite	7681-57-4	TWA	5 mg/m³	ACGIH
		TWA	5 mg/m ³	NIOSH REL

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sulphur dioxide	7446-09-5	STEL	0.25 ppm	ACGIH
		TWA	2 ppm 5 mg/m ³	NIOSH REL
		ST	5 ppm 13 mg/m ³	NIOSH REL
		TWA	5 ppm 13 mg/m ³	OSHA Z-1

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.

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Perso	onal protective equip	ment				
Respiratory protection :			General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.			
Hand	protection					
Ma	aterial	:	Chemical-resist	tant gloves		
	emarks protection	:	If the work envi mists or aeroso Wear a faceshi	le gloving. asses with side shields or goggles. ironment or activity involves dusty conditions, ols, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or		
Skin a	and body protection	:	Work uniform of Additional body task being perfe disposable suits	or laboratory coat. v garments should be used based upon the ormed (e.g., sleevelets, apron, gauntlets, s) to avoid exposed skin surfaces. e degowning techniques to remove potentially clothing.		
Hygie	ene measures	:	If exposure to c eye flushing sy working place. When using do Wash contamin The effective of engineering con appropriate deg	chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the		
SECTION	9. PHYSICAL AND C	HEMI	CAL PROPERT	IES		
Appe	arance	:	No data availa	ble		
Color		:	No data availa	ble		
Odor		:	No data availa	ble		
Odor	Threshold		No data availa	blo		

- pH : No data available
- Melting point/freezing point : No data available

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	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol, Autoign	ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.

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tions		Hazardous d temperatures	lecomposition products will be formed at elevated s.		
	itions to avoid patible materials	: None known : Oxidizing ag			
	rdous decomposition		ide		
ECTION	11. TOXICOLOGICA	L INFORMATION			
Inhala Skin o Inges	contact	es of exposure			
	e toxicity lassified based on ava	ilable information.			
<u>Prod</u> Acute	uct: oral toxicity		estimate: > 5,000 mg/kg ulation method		
<u>Com</u>	<u>oonents:</u>				
Dihyo	drostreptomycin sul	ohate:			
Acute	oral toxicity	: LD50 (Rat): 9),000 - 25,000 mg/kg		
		LD50 Oral (M	louse): 30,000 mg/kg		
Sodiu	um metabisulphite:				
Acute	oral toxicity	: LD50 (Rat): 1 Method: OEC	,540 mg/kg CD Test Guideline 401		
Acute	inhalation toxicity	Exposure tim Test atmosph	LC50 (Rat): > 5.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: Based on data from similar materials		
Aquita	e dermal toxicity	: LD50 (Rat): > Method: OEC	≥ 2,000 mg/kg D Test Guideline 402		

Components:

Sodium metabisulphite:

Species	:	Rabbit
Result	:	No skin irritation

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Rema	arks	:	Based on data	from similar materials		
Cause	us eye damage/eye es serious eye irritatio conents:		on			
	um metabisulphite:					
Speci Resu Metho	es It	: : :	Rabbit Irreversible effects on the eye OECD Test Guideline 405			
Resp	iratory or skin sens	itizatio	n			
-	sensitization lassified based on av	ailable	information.			
•	iratory sensitizatior assified based on av		information.			
Com	oonents:					
Sodium metabisulphite: Test Type Routes of exposure Species Method Result		:	Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 negative			
Not c	a cell mutagenicity lassified based on av ponents:	ailable	information.			
Dihyo	drostreptomycin sul	lphate:				
Geno	toxicity in vitro	:		romosome aberration test in vitro Iuman lymphocytes /e		
Sodiu	um metabisulphite:					
	toxicity in vitro	:	Test Type: Bad Result: negativ	cterial reverse mutation assay (AMES) ve		
				ritro mammalian cell gene mutation test D Test Guideline 476 re		
Geno	toxicity in vivo	:	cytogenetic as Species: Mous Application Ro	ute: Subcutaneous) Test Guideline 474		
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		Remarks: Base	d on data from similar materials
II Carci	inogenicity		
	lassified based on av	ailable information.	
Com	ponents:		
Dihy	drostreptomycin su	phate:	
Spec		: Rat	
Appli	cation Route		
	sure time	: 2 Years	
NOAI Resu		: 5 mg/kg body w : negative	eignt
N icou	n.	. nogative	
Sodi	um metabisulphite:		
Spec		: Mouse	
	cation Route	: Ingestion	
Expo Resu	sure time	: 24 Months	
Rema		: negative : Based on data t	rom similar materials
IARC	U		ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
OSH		nent of this product pres s list of regulated carcin	sent at levels greater than or equal to 0.1% is ogens.
NTP		ent of this product prese as a known or anticipate	ent at levels greater than or equal to 0.1% is d carcinogen by NTP.
Repr	oductive toxicity		
Not c	lassified based on av	ailable information.	
Com	ponents:		
Dihye	drostreptomycin su	phate:	
Effec	ts on fetal developme	ent · Test Type· Emb	ryo-fetal development
		Species: Rabbit	
		Species: Rabbit Application Rou	te: Oral
		Species: Rabbit Application Rou	
		Species: Rabbin Application Rou Developmental	te: Oral Toxicity: NOAEL: 5 mg/kg body weight
		Species: Rabbin Application Rou Developmental	te: Oral Toxicity: NOAEL: 5 mg/kg body weight pryo-fetal development
		Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou	te: Oral Toxicity: NOAEL: 5 mg/kg body weight pryo-fetal development a pig te: Intramuscular
		Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou General Toxicity	te: Oral Toxicity: NOAEL: 5 mg/kg body weight pryo-fetal development a pig
		Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou General Toxicity weight	te: Oral Toxicity: NOAEL: 5 mg/kg body weight oryo-fetal development a pig te: Intramuscular y Maternal: LOAEL: 100 - 200 mg/kg body
		Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou General Toxicity weight Developmental	te: Oral Toxicity: NOAEL: 5 mg/kg body weight oryo-fetal development a pig te: Intramuscular / Maternal: LOAEL: 100 - 200 mg/kg body Toxicity: NOAEL: 10 mg/kg body weight
		Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou General Toxicity weight Developmental Result: Materna	te: Oral Toxicity: NOAEL: 5 mg/kg body weight oryo-fetal development a pig te: Intramuscular y Maternal: LOAEL: 100 - 200 mg/kg body
		Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou General Toxicity weight Developmental Result: Materna	te: Oral Toxicity: NOAEL: 5 mg/kg body weight oryo-fetal development a pig te: Intramuscular y Maternal: LOAEL: 100 - 200 mg/kg body Toxicity: NOAEL: 10 mg/kg body weight I toxicity observed., Embryotoxic effects and
	u m metabisulphite: ts on fertility	Species: Rabbin Application Rou Developmental Test Type: Emb Species: Guine Application Rou General Toxicity weight Developmental Result: Materna adverse effects	te: Oral Toxicity: NOAEL: 5 mg/kg body weight oryo-fetal development a pig te: Intramuscular y Maternal: LOAEL: 100 - 200 mg/kg body Toxicity: NOAEL: 10 mg/kg body weight I toxicity observed., Embryotoxic effects and

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			Species: Rat Application Route Result: negative	e: Ingestion
Effect	s on fetal development	:	Test Type: Embry Species: Rabbit Application Route Result: negative	vo-fetal development :: Ingestion
STOT	-single exposure			

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (ear, Kidney, inner ear) through prolonged or repeated exposure if swallowed.

Components:

Dihydrostreptomycin sulphate:

Assessment

: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Dihydrostreptomycin sulphate:

Species	:	Guinea pig
LÖAEL	:	40 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Target Organs	:	ear
Symptoms	:	hearing loss
Species	:	Cat
LOAEL	:	100 mg/kg
Application Route	:	Oral
Exposure time	:	60 d
Target Organs	:	ear
Symptoms	:	ataxia, hearing loss, Reduced body weight
Species	:	Cat
LOAEL	:	300 mg/kg
Application Route	:	Oral
Exposure time	:	21 d
Target Organs	:	ear
Symptoms	:	ataxia, hearing loss, Reduced body weight
Sodium metabisulphite:		
Species	:	Rat

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Expo	sure time	:	104 Weeks				
Not c	r <mark>ation toxicity</mark> lassified based on availa rience with human exp						
	ponents:						
	drostreptomycin sulph	ate:					
	ral Information	:	Symptoms: Erythema, hearing loss, Nausea, Rash, Vomiting, Headache, hypotension				
ECTION	12. ECOLOGICAL INFO	ORN	ATION				
Ecote	oxicity						
Com	ponents:						
Sodi	um metabisulphite:						
Toxic	ity to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 178 mg/l 96 h			
Toxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): 89 raquatic invertebratesExposure time: 48 h							
	Toxicity to algae/aquatic		ErC50 (Desmo Exposure time:	desmus subspicatus (green algae)): 43.8 mg/l 72 h			
			EC10 (Desmod Exposure time:	esmus subspicatus (green algae)): 33.3 mg/l 72 h			
	ity to fish (Chronic tox-	:	NOEC (Danio r Exposure time:	erio (zebra fish)): >= 316 mg/l			
icity)			Method: OECD	Test Guideline 210 d on data from similar materials			
aquat	ity to daphnia and other tic invertebrates (Chron-	:	NOEC (Daphnia Exposure time:	a magna (Water flea)): >= 10 mg/l 21 d			
ic tox Toxic	ity to microorganisms	:	EC10 (Pseudor Exposure time:	nonas putida): 30.8 mg/l 17 h			
	stence and degradabil ata available	ity					
	ccumulative potential ata available						
	lity in soil ata available						
	r adverse effects ata available						
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SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Specific target organ toxicity (single or repeated exposure) Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

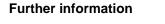




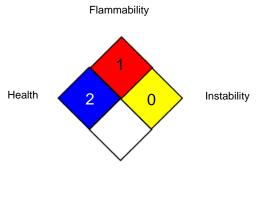
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	Water Dihydrostreptom Sodium metabisi	7732-18-5 5490-27-7 7681-57-4		
	California Prop. 65			
WARNING: This product can expose you to chemicals including Sulphur dioxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.				
California List of Hazardous Substances				
Sodium metabisulphite 7681-57-4				
California Permissible Exposure Limits for Chemical Contaminants				
	Sodium metabisu	7681-57-4		
The ingredients of this product are reported in the following inventories:				
DSL		: not determined	-	
AICS		: not determined		
IECS	С	: not determined		

SECTION 16. OTHER INFORMATION







Special hazard

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA		8-hour, time-weighted average
	•	e neur, une neighted arenage



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-	GIH / STEL SH REL / TWA		d average concentration for up to a 10-hour		
NIOSH REL / ST		: STEL - 15-mir	 workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday 		
OS	HA Z-1 / TWA	: 8-hour time w			

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amend-ments and Reauthorization Act; SDS - Safety Data Sheet; 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

Sources of key data used to : compile the Material Safety Data Sheet	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Revision Date : 09/30/2023

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

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according to the OSHA Hazard Communication Standard

Dihydrostreptomycin Sulfate Formulation

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2.0	09/30/2023	5918690-00009	Date of first issue: 05/20/2020

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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