according to the Globally Harmonized System



Dihydrostreptomycin Sulfate Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
2.0	28.09.2024	5918684-00009	Date of first issue: 20.05.2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Dihydrostreptomycin Sulfate Formulation
Manufacturer or supplier's d Company	eta :	ils MSD
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207
Telephone	:	+1-908-740-4000
Emergency telephone number	:	+1-908-423-6000
E-mail address	:	EHSDATASTEWARD@msd.com
Recommended use of the ch	em	ical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification

Precautionary statements

Serious eye damage/eye irri- tation	:	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.

Prevention:

:

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		P264 Wash har P270 Do not ea	eathe mist or vapours. Ids thoroughly after handling. t, drink or smoke when using this product. protection/ face protection.			
	Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously wit for several minutes. Remove contact lenses, if present easy to do. Continue rinsing. P319 Get medical help if you feel unwell. P337 + P317 If eye irritation persists: Get medical help					
	Disposal:					
	P501 Dispose of contents/ container to an approved wast disposal plant.					

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Dihydrostreptomycin sulphate	5490-27-7	>= 30 - < 50
Sodium metabisulphite	7681-57-4	>= 1 - < 2.5

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention 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	:	Causes serious eye irritation.
and effects, both acute and delayed		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.

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5. FI	5. FIREFIGHTING MEASURES							
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical				
Unsuitable extinguishing media		:	None known.					
	Specific hazards during fire- fighting		:	Exposure to comb	pustion products may be a hazard to health.			
	Hazard ucts	ous combustion prod-	:	Carbon oxides Sulphur oxides Metal oxides				
	Specific ods	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			
	Special for firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. ective equipment.			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
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.
Methods and materials for containment and 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. Sections 13 and 15 of this SDS provide information regarding

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certain local or national requirements.

7. HANDLING AND STORAGE	
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 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 as- sessment
	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.
Conditions for safe storage	: Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components 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: OTO			
		Wipe limit	Not required	
Sodium metabisulphite	7681-57-4	TWA	5 mg/m3	ACGIH

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	TWA	2 ppm 5 mg/m3	IN OEL
		STEL	5 ppm 10 mg/m3	IN OEL
		STEL	0.25 ppm	ACGIH

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

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		No open hand Totally enclos are required. Operations re	cts, workers, and the environment. dling permitted. and processes and materials transport systems quire the use of appropriate containment tech- ned to prevent leakage of compounds into the
Perso	nal protective equip	ment	
Filt	ratory protection er type protection	sure assessm ommended g	cal exhaust ventilation is not available or expo- nent demonstrates exposures outside the rec- uidelines, use respiratory protection. rticulates and inorganic gas/vapour type
Ма	iterial	: Chemical-res	istant gloves
	marks rotection	If the work en mists or aeros Wear a faces	ble gloving. Jasses with side shields or goggles. vironment or activity involves dusty conditions, sols, wear the appropriate goggles. hield or other full face protection if there is a irect contact to the face with dusts, mists, or
Skin a	and body protection	: Work uniform Additional boo being perform suits) to avoid	or laboratory coat. dy garments should be used based upon the task led (e.g., sleevelets, apron, gauntlets, disposable l exposed skin surfaces. ate degowning techniques to remove potentially clothing.
Hygiei	ne measures	: If exposure to flushing syste place. When using c Wash contam The effective engineering c appropriate d industrial hyg	chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
9. PHYSIC	AL AND CHEMICAL	PROPERTIES	

Appearance : No data available

Colour	:	No data available
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available

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	Initial bo range	piling point and boiling	:	No data available	
F	Flash po	oint	:	No data available	
E	Evapora	ation rate	:	No data available	
F	Flamma	bility (solid, gas)	:	Not applicable	
F	Flamma	bility (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
١	Vapour	pressure	:	No data available	
F	Relative	e vapour density	:	No data available	
F	Relative	edensity	:	No data available	
[Density		:	No data available	
S	Solubilit Wate	y(ies) er solubility	:	No data available	
		n coefficient: n-	:	Not applicable	
	octanol/ Auto-igr	water nition temperature	:	No data available	
[Decomp	position temperature	:	No data available	
١	Viscosit Visco	y osity, kinematic	:	No data available	
E	Explosiv	ve properties	:	Not explosive	
(Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
ſ	Molecul	ar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

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.
tions		Hazardous decomposition products will be formed at elevated

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			temperatures.	
	litions to avoid npatible materials	:	None known. Oxidizing agents	
	rdous decomposition µ nal decomposition	oroc :		
1. TOXIC		rioi	N	
Inforr expo	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Acut	e toxicity			
Not c	lassified based on availa	ble	information.	
Prod Acute	<u>uct:</u> e oral toxicity	:	Acute toxicity esti Method: Calculati	mate: > 5,000 mg/kg on method
<u>Com</u>	ponents:			
Dihy	drostreptomycin sulph	ate:		
Acute	e oral toxicity	:	LD50 (Rat): 9,000) - 25,000 mg/kg
			LD50 Oral (Mouse	e): 30,000 mg/kg
Sodi	um metabisulphite:			
	e oral toxicity	:	LD50 (Rat): 1,540 Method: OECD T	
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.5 Exposure time: 4 Test atmosphere: Remarks: Based	h
Acute	e dermal toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Remarks: Based	
-	corrosion/irritation	ble	information	
	ponents:	010		
Spec	um metabisulphite: ies	•	Rabbit	
Recu	I+	:	No skin irritation	

Result:No skin irritationRemarks:Based on data from similar materials

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Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Sodium metabisulphite:

Species Method Result	:	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
Test Type Exposure routes Species Method Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:

Genotoxicity in vitro	: T	est Type: Chromosome aberration test in vitro
-	Т	est system: Human lymphocytes
	F	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 Application Route: Subcutaneous Method: OECD Test Guideline 474 Result: negative Remarks: Based on data from similar materials

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Carcinogenicity

Not classified based on available information.

Components:

Dihydrostreptomycin sulphate:

: Rat
: Oral
: 2 Years
: 5 mg/kg body weight
: negative

Sodium metabisulphite:

Species Application Route Exposure time Result Remarks	: Mouse : Ingestion
Application Roule	5
Exposure time	: 24 Months
Result	: negative
Remarks	: 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:	· Toot Type: Three generation study

Effects on fertility	:	Test Type: Three-generation study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative

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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
LOAEL	: 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

Application Route	: Oral
Exposure time	: 21 d
Target Organs	: ear
Exposure time Target Organs Symptoms	: ataxia, hearing loss, Reduced body weight

Sodium metabisulphite:

Species	:	Rat
NOAEL	:	110 mg/kg
LOAEL	:	220 mg/kg
Application Route	:	Ingestion
Exposure time	:	104 Weeks

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

Dihydrostreptomycin sulphate:

Contaminated packaging

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al Information	:	Symptoms: Ery Headache, hyp	thema, hearing loss, Nausea, Rash, Vomiting otension
GICAL INFORMATION	1		
xicity			
onents:			
m metabisulphite:			
y to fish	:	LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 178 mg/l 96 h
y to daphnia and other c invertebrates	:	EC50 (Daphnia Exposure time:	
y to algae/aquatic	:	ErC50 (Desmo Exposure time:	odesmus subspicatus (green algae)): 43.8 mg, 72 h
		EC10 (Desmoor Exposure time:	desmus subspicatus (green algae)): 33.3 mg/ 72 h
y to microorganisms	:	EC10 (Pseudor Exposure time:	nonas putida): 30.8 mg/l 17 h
y to fish (Chronic tox-	:	Method: OECD	
y to daphnia and other c invertebrates (Chron- city)	:	Exposure time:	
tence and degradabili a available	ty		
cumulative potential a available			
ty in soil a available			
adverse effects a available			
SAL CONSIDERATION	S		
sal methods			
from residues	:	Do not dispose	of waste into sewer.
	OGICAL INFORMATION xicity onents: m metabisulphite: y to fish xy to daphnia and other c invertebrates y to algae/aquatic xy to fish (Chronic tox- y to fish (Chronic tox- y to daphnia and other c invertebrates (Chron- y to daphnia and other c invertebrates (Chron- y to daphnia and other c invertebrates (Chron- xiy) available cumulative potential ta available ta available ta available sal methods	OGICAL INFORMATION xicity onents: m metabisulphite: y to fish y to daphnia and other y to algae/aquatic y to microorganisms y to fish (Chronic tox- y to fish (Chronic tox- y to daphnia and other y to fish (Chronic tox- y to daphnia and other y to fish (Chronic tox- y to daphnia and other y to daphnia and other y to fish (Chronic tox- y to algae/aquatic y to algae/aquatic y to fish (Chronic tox- y to daphnia and other y to daphnia and other y to algae/aquatic y to algae/aquatic y to fish (Chronic tox- y to daphnia and other y to daphnia and other y to algae/aquatic y to algae/aqua	Headache, hyp DGICAL INFORMATION xicity onents: m metabisulphite: y to fish : y to fish : c invertebrates y to algae/aquatic : e C10 (Desmoder time: y to algae/aquatic : e C10 (Desmoder time: y to microorganisms : e C10 (Desmoder time: y to fish (Chronic tox- : y to fish (Chronic tox- : y to fish (Chronic tox- : y to daphnia and other : c invertebrates (Chron- : c invertebrates (Chron- : city) : exposure time: : species: Daphr : etarece and degradability : ta available : cumulative potential : ta available : adverse effects : ta available : SAL CONSIDERATIONS :

:

Dispose of in accordance with local regulations.

Empty containers should be taken to an approved waste han-

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dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

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 IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

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

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

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

16. OTHER INFORMATION

Revision Date	:	28.09.2024
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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

Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH IN OEL	:	USA. ACGIH Threshold Limit Values (TLV) India. Permissible levels of certain chemical substances in work environment.			
		8-hour, time-weighted average Short-term exposure limit			

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IN OEL / TWA	:	Time-Weighted Average Concentration (TWA)	(8 hrs.)
IN OEL / STEL	:	Short-term exposure Limit STEL (15 min)	

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

IN / EN