

:Date of last issue: 30.09.202310Date of first issue: 20.05.2020			
treptomycin Sulfate Formulation			
estrictions on use			
ry product icable			
50 Tuas West Drive Singapore - Singapore 638408			
740-4000			
2111 (24/7/365)			
ASTEWARD@msd.com			
e / 2			
/ 1 (ear, Kidney, inner ear)			
nary statements			
 H319 Causes serious eye irritation. H372 Causes damage to organs (ear, Kidney, inner ea through prolonged or repeated exposure if swallowed. 			
i on: not breathe mist or vapours. ash skin thoroughly after handling. not eat, drink or smoke when using this produ ear eye protection/ face protection.			



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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 advice/ attention if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/ attention.

Disposal:

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

Other hazards which do not result in classification

None known.

Section 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 -< 3

Section 4: First-aid measures

Description of necessary 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 an	d effects, both acute and delayed
Risks	: 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).



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Treat	ment	: Treat sympt	on and special treatment needed omatically and supportively.				
Section 5	: Fire-fighting measure	S					
	guishing media ble extinguishing media	: Water spray Alcohol-resi Carbon dioy Dry chemica	stant foam cide (CO2)				
Unsu medi	itable extinguishing a	: None know					
	aial hazards arising from	n the substance	or mixture				
Spec	ific hazards during fire-		combustion products may be a hazard to health.				
fighti Haza ucts	ng Irdous combustion prod-	Sulphur oxid	Carbon oxides Sulphur oxides Metal oxides				
Snec	ial protective actions f	or fire-fighters					
Spec for fir	ial protective actions i efighters ific extinguishing meth-	 In the event Use person Use extingut cumstances Use water s 	of fire, wear self-contained breathing apparatus. al protective equipment. ishing measures that are appropriate to local cir- and the surrounding environment. pray to cool unopened containers. damaged containers from fire area if it is safe to do				
		Evacuate a	ea.				
Section 6	: Accidental release m	easures					
	precautions, protective onal precautions	: Use person Follow safe	d emergency procedures al protective equipment. handling advice (see section 7) and personal pro- oment recommendations (see section 8).				
	nental precautions conmental 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 or barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 					
	and materials for conta ods for cleaning up	: Soak up wit For large sp ment to kee	aning up h inert absorbent material. ills, provide dyking or other appropriate contain- p material from spreading. If dyked material can store recovered material in appropriate container.				



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		bent. Local or national posal of this mat employed in the mine which regu Sections 13 and	ing materials from spill with suitable absor- l regulations may apply to releases and dis- cerial, as well as those materials and items cleanup of releases. You will need to deter- lations are applicable. 15 of this SDS provide information regarding national requirements.

Section 7: Handling and storage

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 as- sessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures :	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
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

Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits



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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 inform	ation: OTO		
		Wipe limit	Not required	
Sodium metabisulphite	7681-57-4	PEL (long term)	5 mg/m3	SG OEL
		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	PEL (long	2 ppm	SG OEL		
	1440 00 0	term)	5.2 mg/m3			
		PEL (short	5 ppm	SG OEL		
		term)	13 mg/m3			
		STEL	0.25 ppm	ACGIH		
Appropriate engineering control measures	to control at vent leakage All engineer design and o protect prod No open har Totally enclo are required Operations r	source (e.g., glov e of compounds in ing controls shou operated in accorr ucts, workers, an adling permitted. osed processes a require the use of	ms or containment terve boxes/isolators) ar nto the workplace. Id be implemented by dance with GMP prind the environment. nd materials transport appropriate containreakage of compounds	nd to pre- / facility ciples to rt systems nent tech-		
Individual protection measu	ires, such as pe	rsonal protective	e equipment (PPE)			
Eye/face protection	If the work e mists or aero Wear a face	nvironment or ac osols, wear the a shield or other fu	e shields or goggles. tivity involves dusty of ppropriate goggles. Il face protection if the the face with dusts, n	ere is a		
Skin protection	: Work uniforr Additional be task being p posable suit	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				
Respiratory protection	: If adequate sure assess	local exhaust ver ment demonstrat	tilation is not availables exposures outside exposures outside expiratory protection.			
Filter type Hand protection			organic gas/vapour t	уре		



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Mat	terial	:	Chemical-resistar	t gloves
Rer	marks	:	Consider double ç	gloving.
Section 9:	Physical and chemica	l pr	operties	
Appea	rance	:	No data available	9
Colour		:	No data available)
Odour		:	No data available)
Odour	Threshold	:	No data available)
pН		:	No data available)
Melting	g point/freezing point	:	No data available)
Initial b range	poiling point and boiling	:	No data available	
Flash p	point	:	No data available	
Evapo	ration rate	:	No data available)
Flamm	ability (solid, gas)	:	Not applicable	
Flamm	ability (liquids)	:	No data available	9
	explosion limit / Upper ability limit	:	No data available	
	explosion limit / Lower ability limit	:	No data available	
Vapou	r pressure	:	No data available	
Relativ	e vapour density	:	No data available)
Relativ	ve density	:	No data available	
Densit	у	:	No data available	
	lity(ies) ter solubility	:	No data available	9
	on coefficient: n-	:	Not applicable	
	I/water gnition temperature	:	No data available	9
Decom	position temperature	:	No data available	2



ersion 9	Revision Date: 06.04.2024		lumber: 89-00010	Date of last issue: 30.09.2023 Date of first issue: 20.05.2020	
Visco: Vis	sity scosity, kinematic	: N	o data available	9	
Explo	sive properties	: N	ot explosive		
Oxidiz	zing properties	: TI	ne substance o	r mixture is not classified as oxidizing.	
Molec	cular weight	: N	o data available	9	
	le characteristics le size	: N	: Not applicable		
ection 10): Stability and reactivi	ty			
	ivity lical stability bility of hazardous reac-	: S : C H	table under nor an react with st	a reactivity hazard. mal conditions. rong oxidizing agents. nposition products will be formed at elevate	
	tions to avoid patible materials		one known. xidizing agents		
	rdous decomposition praide the main of the		t s ulphur dioxide		
ection 11	1: Toxicological inform	ation			
Information on likely routes of : Inhalation exposure Skin contact Ingestion Eye contact					
	e toxicity				
	assified based on availa	ble info	rmation.		
Produ Acute	oral toxicity		ute toxicity esti ethod: Calculati	mate: > 2,000 mg/kg on method	
<u>Comp</u>	oonents:				
Dihyc	Irostreptomycin sulph	ate:			
Acute	oral toxicity	: LC	50 (Rat): 9,000) - 25,000 mg/kg	
		LD	50 Oral (Mouse	e): 30,000 mg/kg	



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Acute	e oral toxicity	: LD50 (Rat): 1, Method: OEC	540 mg/kg D Test Guideline 401			
Acute inhalation toxicity		: LC50 (Rat): > 5.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Remarks: Based on data from similar mater				
Acute dermal toxicity		Method: OEC	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials			
•••••	corrosion/irritation lassified based on ava	ailable information.				
Com	ponents:					
Sodiu	um metabisulphite:					
Spec		: Rabbit				
Resu Rema		: No skin irritation: : Based on data	on a from similar materials			
	ous eye damage/eye					
Caus <u>Com</u>	es serious eye irritatio ponents:					
Caus <u>Com</u> Sodiu	es serious eye irritatio ponents: um metabisulphite:	n.				
Caus <u>Com</u> Sodiu Speci	es serious eye irritatio ponents: um metabisulphite: ies	n. : Rabbit	fects on the eve			
Caus <u>Com</u> Sodiu	es serious eye irritatio ponents: um metabisulphite: ies It	n. : Rabbit	fects on the eye uideline 405			
Caus <u>Com</u> Sodiu Speci Resu Methe	es serious eye irritatio ponents: um metabisulphite: ies It	n. : Rabbit : Irreversible eff : OECD Test G				
Caus Com Sodiu Speci Resu Metho Resp	es serious eye irritatio ponents: um metabisulphite: ies It od	n. : Rabbit : Irreversible eff : OECD Test G				
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin	es serious eye irritatio ponents: um metabisulphite: ies It od iratory or skin sensi	n. : Rabbit : Irreversible eff : OECD Test G tisation				
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c	es serious eye irritatio ponents: um metabisulphite: ies It od iratory or skin sensi sensitisation	n. : Rabbit : Irreversible eff : OECD Test G tisation ailable information.				
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c Resp	es serious eye irritatio ponents: um metabisulphite: ies It od iratory or skin sensi sensitisation lassified based on ava	n. : Rabbit : Irreversible eff : OECD Test G tisation ailable information.				
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c Resp Not c	es serious eye irritatio ponents: um metabisulphite: ies It od iratory or skin sensi sensitisation lassified based on ava iratory sensitisation	n. : Rabbit : Irreversible eff : OECD Test G tisation ailable information.				
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c Resp Not c <u>Com</u>	es serious eye irritation ponents: um metabisulphite: ies It od iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava	n. : Rabbit : Irreversible eff : OECD Test G tisation ailable information.				
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c Resp Not c <u>Com</u> Sodiu Test	es serious eye irritation ponents: um metabisulphite: ies lt od iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents: um metabisulphite: Type	n. : Rabbit : Irreversible eff : OECD Test G tisation ailable information. ailable information. : Local lymph n	-			
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c Resp Not c <u>Com</u> Sodiu Test Expos	es serious eye irritation ponents: um metabisulphite: ies lt od iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents: um metabisulphite: Type sure routes	in. : Rabbit : Irreversible eff : OECD Test G tisation ailable information. ailable information. : Local lymph n : Skin contact	uideline 405			
Caus <u>Com</u> Sodiu Speci Resu Metho Resp Skin Not c Resp Not c <u>Com</u> Sodiu Test	es serious eye irritation ponents: um metabisulphite: ies lt od iratory or skin sensi sensitisation lassified based on ava iratory sensitisation lassified based on ava ponents: um metabisulphite: Type sure routes ies	n. : Rabbit : Irreversible eff : OECD Test G tisation ailable information. ailable information. : Local lymph n	uideline 405 ode assay (LLNA)			

Not classified based on available information.



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<u>Comp</u>	oonents:		
Dihvo	drostreptomycin sul	phate:	
-	toxicity in vitro	: Test Type: Chr	omosome aberration test in vitro uman lymphocytes e
Sodiu	um metabisulphite:		
	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e
			tro mammalian cell gene mutation test Test Guideline 476 e
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rou Method: OECD	e ite: Subcutaneous Test Guideline 474
		Result: negative Remarks: Base	e d on data from similar materials
	nogenicity lassified based on ava	Remarks: Base	
Not cl	• •	Remarks: Base	
Not cl	lassified based on ava	Remarks: Base	
Not cl <u>Comp</u> Dihyd	lassified based on ava ponents: drostreptomycin sul	Remarks: Base ailable information. phate:	
Not cl <u>Comp</u> Dihyc Speci	lassified based on ava <u>conents:</u> drostreptomycin sul es	Remarks: Base ailable information. phate: : Rat	
Not cl Comp Dihyc Speci Applic	lassified based on ava ponents: drostreptomycin sul	Remarks: Base ailable information. phate:	
Not cl Comp Dihyc Speci Applic	lassified based on ava <u>conents:</u> drostreptomycin sul es cation Route sure time	Remarks: Base ailable information. phate: : Rat : Oral	d on data from similar materials
Not cl <u>Comp</u> Dihyc Speci Applic Expos	lassified based on ava <u>conents:</u> drostreptomycin sul es cation Route sure time EL	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years	d on data from similar materials
Not cl Comp Dihyc Speci Applic Expos NOAE Resul	lassified based on ava <u>conents:</u> drostreptomycin sul es cation Route sure time EL It	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v	d on data from similar materials
Not cl Comp Dihyc Speci Applic Expos NOAE Result Sodiu	assified based on ava <u>conents:</u> drostreptomycin sul es cation Route sure time EL t um metabisulphite:	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v : negative	d on data from similar materials
Not cl Comp Dihyc Speci Applic Expos NOAE Resul Sodiu Speci	lassified based on ava <u>conents:</u> drostreptomycin sul es cation Route sure time EL It um metabisulphite: es	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v : negative : Mouse	d on data from similar materials
Not cl Comp Dihyc Speci Applic Expos NOAE Result Sodiu Speci Applic	assified based on ava <u>conents:</u> drostreptomycin sul es cation Route sure time EL t um metabisulphite:	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v : negative	d on data from similar materials
Not cl Comp Dihyc Speci Applic Expos NOAE Resul Speci Applic Expos Resul Speci Resul Resul	lassified based on avaination and the second streptomycin sull es the sure time sure time sure time time time time time sure time sure time sure time sure time sure time time time time sure time time time time time time time tim	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v : negative : Ingestion : 24 Months : negative	d on data from similar materials veight
Not cl Comp Dihyc Speci Applic Expos NOAE Resul Speci Applic Speci Applic Expos	lassified based on avaination and the second streptomycin sull es the sure time sure time sure time time time time time sure time sure time sure time sure time sure time time time time sure time time time time time time time tim	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v : negative : Ingestion : 24 Months : negative	d on data from similar materials
Not cl Comp Dihyc Speci Applic Expos NOAE Resul Speci Applic Expos Resul Rema Repro	lassified based on avainable conents: drostreptomycin sul es cation Route sure time EL t um metabisulphite: es cation Route sure time t arks coductive toxicity	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body w : negative : Ingestion : 24 Months : negative : Based on data	d on data from similar materials veight
Not cl Comp Dihyc Speci Applic Expos NOAE Resul Speci Applic Expos Resul Rema Repro	lassified based on avainable conents: drostreptomycin sulles cation Route sure time EL t um metabisulphite: es cation Route sure time t arks oductive toxicity lassified based on avainable based on avainable lassified based b	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body w : negative : Ingestion : 24 Months : negative : Based on data	d on data from similar materials veight
Not cl Comp Dihyc Speci Applic Expos NOAE Resul Sodiu Speci Applic Expos Resul Rema Repro Not cl Comp	lassified based on avainable conents: drostreptomycin sulles cation Route sure time EL it um metabisulphite: es cation Route sure time tarks oductive toxicity lassified based on avainable conents:	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body v : negative : Ingestion : 24 Months : negative : Based on data ailable information.	d on data from similar materials veight
Not cl Comp Dihyc Speci Applic Expos Resul Sodiu Speci Applic Expos Resul Rema Repro Not cl Comp Dihyc	lassified based on avainable conents: drostreptomycin sulles cation Route sure time EL t um metabisulphite: es cation Route sure time t arks oductive toxicity lassified based on avainable based on avainable lassified based b	Remarks: Base ailable information. phate: : Rat : Oral : 2 Years : 5 mg/kg body w : negative : Ingestion : 24 Months : negative : Based on data ailable information. phate:	d on data from similar materials veight



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			n Route: Oral ental Toxicity: NOAEL: 5 mg/kg body weight
		Species: C Application General T weight Developm Result: Ma	: Embryo-foetal development Guinea pig n Route: Intramuscular oxicity Maternal: LOAEL: 100 - 200 mg/kg body ental Toxicity: NOAEL: 10 mg/kg body weight aternal toxicity observed., Embryotoxic effects and ffects on the offspring were detected.
Sodiu	um metabisulphite:		
	s on fertility	Species: F	n Route: Ingestion
Effect ment	s on foetal develop-	Species: F	n Route: Ingestion
	- single exposure lassified based on ava	ilable information	
			r ear) through prolonged or repeated exposure if
-	oonents:		
Dihyo	drostreptomycin sulp	hate:	
Asses	ssment	: Causes da exposure.	amage to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
Dihyo	drostreptomycin sulp	hate:	
Speci LOAE Applic Expos	es EL cation Route sure time et Organs	: Guinea pio : 40 mg/kg : Oral : 90 d : ear : hearing los	
Speci LOAE Applic		: Cat : 100 mg/kg : Oral	Ι



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	sure time	:	60 d	
	t Organs	:	ear	
Symp	toms	:	ataxia, hearing l	oss, Reduced body weight
Specie		:	Cat	
LOAE		:	300 mg/kg	
	ation Route	÷	Oral	
	sure time t Organs	÷	21 d ear	
Symp		:		oss, Reduced body weight
Sodiu	ım metabisulphite:			
Specie	-	:	Rat	
NOAE		:	110 mg/kg	
LOAE		:	220 mg/kg	
	ation Route	:	Ingestion	
Expos	sure time	:	104 Weeks	
Aspir	ation toxicity			
•	•	ble	information	
Not cl	assified based on availa			
Not cl Exper	assified based on availa rience with human exp			
Not cla Exper	assified based on availa rience with human exp ponents:	osı	ıre	
Not cla Exper Comp Dihyd	assified based on availa rience with human exp ponents: Irostreptomycin sulpha	osı	Ire	home bearing loss Nousse Rest Versitin
Not cla Exper Comp Dihyd	assified based on availa rience with human exp ponents:	osı	Ire	
Not cla Exper Comp Dihyd Gener	assified based on availa rience with human exp ponents: Irostreptomycin sulpha	osı ate:	ire Symptoms: Eryt	
Not cla Exper Comp Dihyd Gener	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological informatio	osı ate:	ire Symptoms: Eryt	
Not cla Exper Comp Dihyd Gener ction 12	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological informatio	osı ate:	ire Symptoms: Eryt	
Not cla Exper Comp Dihyd Gener ction 12 Toxic Comp Sodiu	assified based on availa rience with human exp <u>ponents:</u> Irostreptomycin sulpha ral Information 2: Ecological information ity <u>ponents:</u> im metabisulphite:	osı ate:	ire Symptoms: Eryt	
Not cla Exper Comp Dihyd Gener ction 12 Toxic Comp Sodiu	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information ity ponents:	osı ate:	JIFE Symptoms: Eryt Headache, hypo LC50 (Oncorhyr	nchus mykiss (rainbow trout)): 178 mg/l
Not cla Exper Comp Dihyd Gener ction 12 Toxic Comp Sodiu	assified based on availa rience with human exp <u>ponents:</u> Irostreptomycin sulpha ral Information 2: Ecological information ity <u>ponents:</u> im metabisulphite:	osı ate:	Ire Symptoms: Eryt Headache, hypo	nchus mykiss (rainbow trout)): 178 mg/l
Not cli Exper Comp Dihyd Gener tion 12 Toxic Comp Sodiu Toxici	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information ity ponents: im metabisulphite: ty to fish	osı : on	Ire Symptoms: Eryt Headache, hypo LC50 (Oncorhyr Exposure time: S	nchus mykiss (rainbow trout)): 178 mg/l 96 h
Not cli Exper Comp Dihyd Gener Etion 12 Toxic Comp Sodiu Toxici	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information ity ponents: im metabisulphite: ty to fish ty to daphnia and other	osı : on	JIFE Symptoms: Eryt Headache, hypo LC50 (Oncorhyr Exposure time: S EC50 (Daphnia	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l
Not cli Exper Comp Dihyd Gener Etion 12 Toxic Comp Sodiu Toxici	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information ity ponents: im metabisulphite: ty to fish	osı : on	Ire Symptoms: Eryt Headache, hypo LC50 (Oncorhyr Exposure time: S	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l
Not cli Exper Comp Dihyd Gener tion 12 Toxic Comp Sodiu Toxici aquati	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information 2: Ecological information ity ponents: um metabisulphite: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	osı : on	LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: ErC50 (Desmod	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l 48 h lesmus subspicatus (green algae)): 43.8 mg
Not cli Exper Comp Dihyd Gener tion 12 Toxic Comp Sodiu Toxici aquati	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information 2: Ecological information ity ponents: um metabisulphite: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	osı : on	LC50 (Oncorhyr Exposure time: 5 EC50 (Daphnia Exposure time: 5	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l 48 h
Not cli Exper Comp Dihyd Gener tion 12 Toxic Comp Sodiu Toxici aquati	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information 2: Ecological information ity ponents: um metabisulphite: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	osı : on	Symptoms: Eryt Headache, hypo LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: ErC50 (Desmod Exposure time:	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l 48 h lesmus subspicatus (green algae)): 43.8 mg 72 h
Not cli Exper Comp Dihyd Gener Comp tion 12 Toxic Comp Sodiu Toxici aquati	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information ity ponents: im metabisulphite: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	osu i on	LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: ErC50 (Desmod Exposure time: EC10 (Desmod Exposure time:	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l 48 h lesmus subspicatus (green algae)): 43.8 mg 72 h esmus subspicatus (green algae)): 33.3 mg/ 72 h
Not cli Exper Comp Dihyd Gener Comp tion 12 Toxic Comp Sodiu Toxici aquati Toxici plants	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information 2: Ecological information ity ponents: um metabisulphite: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	osı : on	LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: ErC50 (Desmod Exposure time: EC10 (Desmod Exposure time: NOEC (Danio re	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l 48 h lesmus subspicatus (green algae)): 43.8 mg 72 h esmus subspicatus (green algae)): 33.3 mg/ 72 h
Not cli Exper Comp Dihyd Gener Comp tion 12 Toxic Comp Sodiu Toxici aquati	assified based on availa rience with human exp ponents: Irostreptomycin sulpha ral Information 2: Ecological information ity ponents: im metabisulphite: ty to fish ty to daphnia and other ic invertebrates ty to algae/aquatic	osu i on	LC50 (Oncorhyr Exposure time: EC50 (Daphnia Exposure time: ErC50 (Desmode Exposure time: EC10 (Desmode Exposure time: NOEC (Danio re Exposure time:	nchus mykiss (rainbow trout)): 178 mg/l 96 h magna (Water flea)): 89 mg/l 48 h lesmus subspicatus (green algae)): 43.8 mg 72 h esmus subspicatus (green algae)): 33.3 mg/ 72 h



ersion .9	Revision Date: 06.04.2024	SDS Number: 5918689-00010	Date of last issue: 30.09.2023 Date of first issue: 20.05.2020
		Remarks: Bas	ed on data from similar materials
		Remarks. Das	ed on data nom similar materials
	ity to daphnia and other tic invertebrates (Chron-	: NOEC (Daphn Exposure time	ia magna (Water flea)): >= 10 mg/l : 21 d
	ity to microorganisms	: EC10 (Pseudo Exposure time	monas putida): 30.8 mg/l : 17 h
	istence and degradabil ata available	ity	
	ccumulative potential		
Mobi	lity in soil ata available		
Othe	r adverse effects		
NO da	ata available		
ection 1	3: Disposal considerat	ions	
-	osal methods		
Wast	e from residues		e of waste into sewer. accordance with local regulations.
Conta	aminated packaging		ers should be taken to an approved waste han
		dling site for re	ecycling or disposal.
		If not otherwise	e specified: Dispose of as unused product.
ection 1	4: Transport information	on	
	•		
Interi	national Regulations		
UNR	TDC		
	umber	: Not applicable	
-	roper shipping name	: Not applicable	
	sport hazard class(es)	: Not applicable	
	idiary risk	: Not applicable	
	ing group	: Not applicable	
Label		: Not applicable	
	onmentally hazardous	: no	
	-DGR		
UN/IE		: Not applicable	
	roper shipping name	: Not applicable	
Class	s idiary risk	: Not applicable : Not applicable	
	ing group	: Not applicable	
Label		: Not applicable	
	ing instruction (cargo	: Not applicable	
aircra	lft)		
	ing instruction (nasson-		

Packing instruction (passen- : Not applicable



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IMDG UN n UN p Class Subs Packi Label EmS Marin	idiary risk ing group	 Not applicable 	
Not a Spec	pplicable for product as ial precautions for us pplicable	supplied.	
	5: Regulatory informa	tion	
Safet	y, health and environ	mental regulations sp	ecific for the product in question
tions: Act/R Envir Envir		ed to the SDS, labelling d Management Act and d Management (Hazard	
	Safety (Petroleum and F lations	lammable Materials)	: Not applicable
The o	components of this pr	oduct are reported in : not determined	the following inventories:
AICS		: not determined	

Section 16: Other information

IECSC

Revision Date	:	06.04.2024			
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/			
Date format	:	dd.mm.yyyy			
Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			

: not determined



	evision Date: 6.04.2024	SDS Number: 5918689-00010	Date of last issue: 30.09.2023 Date of first issue: 20.05.2020
SG OEL ACGIH / 1	ΓWA		
	STEL ' PEL (long term) ' PEL (short term)	: Short-term expo : Permissible Exp	
Land of B Carcinoge Standardi x% respo ENCS - E x% growth tem; GLP - Internat Equipmen centration cal Subst Maritime ganisation centration Lethal Do n.o.s Ne Concentra Loading F Zealand I ment; OP lative and es; (Q)S/ 1907/2000 tion, Auth perature; portation o stances C mendation	Brazil; ASTM - Ameri en, Mutagen or Rej sation; DSL - Domes onse; ELx - Loading Existing and New Cr h rate response; ER - Good Laboratory F ional Air Transport nt of Ships carrying n; ICAO - Internation ances in China; IME Organization; ISHL n for Standardization to 50 % of a test p ose); MARPOL - Int ot Otherwise Specifi ation; NO(A)EL - No Rate; NOM - Official nventory of Chemica PTS - Office of Cher I Toxic substance; P AR - (Quantitative) 6 of the European F iorisation and Restri SDS - Safety Data S of Dangerous Goods Control Act (United S	rican Society for the eproductive Toxicant; estic Substances List g rate associated with hemical Substances RG - Emergency Resp Practice; IARC - Inter t Association; IBC - Dangerous Chemica nal Civil Aviation Orga DG - International M - Industrial Safety ar n; KECI - Korea Exis population; LD50 - Le ternational Convention ied; Nch - Chilean No o Observed (Adverse I Mexican Norm; NTF cals; OECD - Organiz mical Safety and Poll PICCS - Philippines In) Structure Activity Parliament and of the iction of Chemicals; S Sheet; TCSI - Taiwar s; TECI - Thailand Ex States); UN - United	Ils; ANTT - National Agency for Transport by Testing of Materials; bw - Body weight; CMR - DIN - Standard of the German Institute for (Canada); ECx - Concentration associated with h x% response; EmS - Emergency Schedule; (Japan); ErCx - Concentration associated with bonse Guide; GHS - Globally Harmonized Sys- national Agency for Research on Cancer; IATA International Code for the Construction and ils in Bulk; IC50 - Half maximal inhibitory con- mization; IECSC - Inventory of Existing Chemi- aritime Dangerous Goods; IMO - International of Health Law (Japan); ISO - International Or- sting Chemicals Inventory; LC50 - Lethal Con- thal Dose to 50% of a test population (Median on for the Prevention of Pollution from Ships; orm; NO(A)EC - No Observed (Adverse) Effect) Effect Level; NOELR - No Observable Effect P - National Toxicology Program; NZIoC - New ation for Economic Co-operation and Develop- ution Prevention; PBT - Persistent, Bioaccumu- ventory of Chemicals and Chemical Substanc- Relationship; REACH - Regulation (EC) No e Council concerning the Registration, Evalua- SADT - Self-Accelerating Decomposition Tem- n Chemical Substance Inventory; TDG - Trans- tisting Chemicals Inventory; TSCA - Toxic Sub- 4 Nations; UNRTDG - United Nations Recom- s; vPvB - Very Persistent and Very Bioaccumu- formation 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.

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