

Version 2.2	Revision Date: 28.09.2024		S Number: 272801-00005	Date of last issue: 15.12.2023 Date of first issue: 18.09.2023	
SECTIO	N 1. IDENTIFICATION				
Pro	duct identifier	:	Kanamycin Acid	Sulfate Formulation	
Mar	nufacturer or supplier's	s deta			
Con	npany	:	MSD		
Add	ress	:	Rua Coronel Be Cruzeiro - Sao F	nto Soares, 530 Paulo - Brazil CEP 12730-340	
Telephone		:	908-740-4000		
Eme	ergency telephone	:	1-908-423-6000		
E-m	ail address	:	EHSDATASTEV	VARD@msd.com	
Rec	ommended use of the	chem	ical and restricti	ons on use	
	ommended use trictions on use	:	Veterinary produ Not applicable	uct	

SECTION 2. HAZARDS IDENTIFICATION

Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Auditory system)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements in accor Hazard pictograms	dar :	nce with ABNT NBR 14725 Standard
Signal Word	:	Danger
Hazard Statements	:	H372 Causes damage to organs (Auditor prolonged or repeated exposure if swallow

Signal Word :	:	Danger
Hazard Statements :	:	H372 Causes damage to organs (Auditory system) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.
Precautionary Statements :	:	Prevention: P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.



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Response:

P314 Get medical advice/ attention if you feel unwell. P391 Collect spillage.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
			Concentration (% w/w)
Kanamycin acid sulfate	64013-70-3	Acute Tox. (Oral), 5 STOT RE, (Oral)(Auditory sys- tem), 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 20 -< 25
Phenol	108-95-2	Acute Tox. (Oral), 3 Acute Tox. (Inhala- tion), 3 Acute Tox. (Dermal), 3 Skin Corr., 1B Eye Dam., 1 Muta., 2 STOT RE, (Central nervous system, Kid- ney, Liver, Skin), 2 Aquatic Acute, 2 Aquatic Chronic, 2	>= 0,1 -< 0,25

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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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 damage to organs through prolonged or repeated exposure if swallowed.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection,



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	Notes t	o physician	:	when the potentia	nmended personal protective equipment l for exposure exists (see section 8). cally and supportively.
SEC	CTION 5	. FIRE-FIGHTING ME	ASU	IRES	
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuitable extinguishing media		:	None known.	
	Specific fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Carbon oxides	
	Specific 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
		l protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

SECTION 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 protective 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 diking or other appropriate containment to keep material from spreading. If diked 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



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		determine wh Sections 13 a	he cleanup of releases. You will need to ich regulations are applicable. Ind 15 of this SDS provide information regarding or national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures		ing measures under EXPOSURE PERSONAL PROTECTION section.
	/Total ventilation e on safe handling	: Do not breath	adequate ventilation. e mist or vapors.
		Wash skin the Handle in acc practice, base assessment Do not eat, de	
Hygie	ene measures	flushing syste place. When using of Wash contain The effective engineering of appropriate d industrial hyg	o chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ininated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.
Cond	itions for safe storage		erly labeled containers. rdance with the particular national regulations.
Mate	rials to avoid	: Do not store Strong oxidiz	with the following product types: ing agents substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Kanamycin acid sulfate	64013-70-3	TWA	100 µg/m3 (OEB 2)	Internal	
Phenol	108-95-2	LT	4 ppm 15 mg/m ³	BR OEL	
	Further information: Absorption through the skin, Degree of harm- fulness: maximum				

Ingredients with workplace control parameters



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			TWA	5 ppm	ACGIH	

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis	
Phenol	108-95-2	phenol	Urine	End of workday	250 mg/g creatinine	BR BEI	
		Phenol	Urine	End of shift (As soon as possible after exposure ceases)	250 mg/g creatinine	ACGIH BEI	
Engineering measures	tec les All des pro	e appropriate of hnologies to c s quick connect engineering co sign and opera- tect products, poratory opera	ontrol airborn ctions). ontrols shoul ited in accord workers, and	ne concentr d be impler dance with d the enviro	ations (e.g., d nented by faci GMP principle nment.	lity s to	
Personal protective equ	uipment						
Respiratory protection Filter type	exp rec	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type			e the		
Hand protection Material	: Ch	Chemical-resistant gloves					
Eye protection	If th mis We pot aer	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.			sa		
Skin and body protection	: Wo	Work uniform or laboratory coat.					

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	colorless
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	3,5 - 5,5
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available



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ra	ange				
F	lash p	oint	:	No data available	9
E	vapora	ation rate	:	No data available	9
F	lamma	ability (solid, gas)	:	Not applicable	
F	lamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
V	/apor p	ressure	:	No data available	
R	Relative	e vapor density	:	No data available	
R	Relative	edensity	:	No data available	
D	Density		:	1,05 - 1,10 g/cm ³	i
S	Solubilit Wate	y(ies) er solubility	:	soluble	
	Partitior	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
D	Decomp	position temperature	:	No data available)
V	/iscosit Visc	y osity, kinematic	:	No data available	9
E	xplosiv	ve properties	:	Not explosive	
0	Dxidizin	g properties	:	The substance o	r mixture is not classified as oxidizing.
Μ	lolecul	ar weight	:	No data available	9
	Particle Particle	characteristics 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.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents



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	Hazardo products	us decomposition	:	No hazardous de	composition products are known.
SECT	TION 11	. TOXICOLOGICAL I	NFC	ORMATION	
	nformati exposure	ion on likely routes of e	:	Inhalation Skin contact Ingestion Eye contact	
	Acute to	oxicity sified based on availa	ble	information.	
<u>F</u>	Product	<u>:</u>			
A	Acute or	al toxicity	:	Acute toxicity estin Method: Calculation	mate: > 5.000 mg/kg on method
A	Acute inl	halation toxicity	:	Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Calculatio	h dust/mist
Þ	Acute de	ermal toxicity	:	Acute toxicity estin Method: Calculation	mate: > 5.000 mg/kg on method
<u>c</u>	Compor	nents:			
ł	Kanamy	cin acid sulfate:			
A	Acute or	al toxicity	:	LD50 (Rat): > 4.00	00 mg/kg
				LD50 (Mouse): 12	.000 mg/kg
				LD50 (Rabbit): > 3	3.000 mg/kg
F	Phenol:				
A	Acute or	al toxicity	:	LD50 (Rat): 650 m Method: OECD Te	
				Acute toxicity estin Method: Expert ju	mate (Humans): 140 - 290 mg/kg dgment
A	Acute inl	halation toxicity	:	LC0 (Rat): 0,9 mg Exposure time: 8 Test atmosphere: Assessment: Corr	h
				Acute toxicity estin Exposure time: 4 Test atmosphere: Method: Expert ju	dust/mist
A	Acute de	ermal toxicity	:	LD50 (Rabbit): 66 Method: OECD Te	



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			Acute toxicity es Method: Expert j	timate (Humans): 300 mg/kg judgment
Not	n corrosion/irritation classified based on ava nponents:	ilable	information.	
Kan	amycin acid sulfate: narks	:	No data availabl	e
Phe Spe Res		:	Rabbit Corrosive after 3	3 minutes to 1 hour of exposure
Not	ous eye damage/eye in classified based on ava			
Kan	nponents: a mycin acid sulfate: narks	:	No data availabl	e
Phe Spe Res Met	ult	:	Rabbit Irreversible effec OECD Test Guid	
Res	piratory or skin sensit	izatio	on	
-	n sensitization classified based on ava	ilable	information.	
	piratory sensitization classified based on ava	ilable	information.	
	nponents:			
Tes Spe	a mycin acid sulfate: t Type cies essment ult	:	Maximization Te Guinea pig Did not cause se negative	est ensitization on laboratory animals.
Tes Rou		:	Buehler Test Skin contact Guinea pig OECD Test Guid negative	deline 406

SAFETY DATA SHEET



Kanamycin Acid Sulfate Formulation

rsion	Revision Date: 28.09.2024		Number: 2801-00005	Date of last issue: 15.12.2023 Date of first issue: 18.09.2023
	cell mutagenicity lassified based on ava	ilable in	formation.	
<u>Com</u>	ponents:			
Kana	mycin acid sulfate:			
Geno	toxicity in vitro		est Type: Ame esult: negative	
		Т	est Type: mito est system: Es esult: negative	
		Т	est Type: DNA est system: Es lesult: negative	scherichia coli
Geno	toxicity in vivo	S	est Type: Micr pecies: Mouse cell type: Bone esult: negative	e marrow
Phen	ol:			
Geno	toxicity in vitro	Ν		omosome aberration test in vitro Test Guideline 473
Geno	toxicity in vivo	c S A N F	ytogenetic ass pecies: Mouse pplication Rou lethod: OECD cesult: positive	
	cell mutagenicity -		ositive result(s	e) from in vivo mammalian somatic cell sts.
	nogenicity lassified based on ava	ilabla ini	formation	
	oonents:			
Phen				
Speci Applic	es cation Route sure time od	: Ir : 1 : C	Nouse ngestion 03 weeks DECD Test Gui	deline 451

Reproductive toxicity

Result

Not classified based on available information.

: negative



ersion 2	Revision Date: 28.09.2024		OS Number: 272801-00005	Date of last issue: 15.12.2023 Date of first issue: 18.09.2023
Compo	onents:			
	nycin acid sulfate: on fetal development	:	Species: Rat Application Route	vo-fetal development b: Intravenous injection oxicity: 100 mg/kg body weight dverse effects.
			Application Route	uditory system
			test Species: Guinea Application Route Developmental To Target Organs: A	: Intramuscular oxicity: NOAEL: > 100 mg/kg body weight
Pheno	I:			
Effects	on fertility	:	Test Type: Two-g Species: Rat Application Route Method: OECD T Result: negative	
Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Method: OECD T Result: negative	
	single exposure ssified based on availa	ble	information.	

STOT-repeated exposure

Causes damage to organs (Auditory system) through prolonged or repeated exposure if swallowed.

Components:

Kanamycin acid sulfate:

Routes of exposure	:	Oral
Target Organs	:	Auditory system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.



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Phen	ol:		
	t Organs sment		system, Kidney, Liver, Skin ge to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Kana	mycin acid sulfate:		
Speci		: Rat	
LÕAE		: TDlo = 12000 mg	ı/kg
	ation Route	: Intraperitoneal	
	sure time	: 30 d	
l arge Rema	t Organs	: Kidney, Ureter, B	
Rema	IKS	Significant toxicit	y observed in testing
Speci		: Dog	
LOAE		: TDIo= 6500 mg/k	g
	ation Route	: Subcutaneous : 17 d	
	sure time t Organs		Eye, Kidney, olfactory sense organs
Rema			y observed in testing
i toma			
Speci		: Guinea pig	
NOAE		: 100 mg/kg	
LOAE		: > 200 mg/kg	
	ation Route	: Intramuscular	
	sure time	: 4 Weeks	
Rema	t Organs	: Auditory system	y observed in testing
Rema	1172	. Significant toxicit	y observed in testing
Speci	es	: Rabbit, male	
LOAE		: > 50 mg/kg	
	ation Route	: Intramuscular	
	sure time	: 30 d	
Rema	t Organs	: Auditory system,	v observed in testing
Rema	185	. Significant toxicit	y observed in testing
Phene	ol:		
Speci	es	: Rat	
LÒAE	L	: 300 mg/kg	
	ation Route	: Ingestion	
	sure time	: 90 Days	
Metho	d	: OECD Test Guid	eline 408
Speci		: Rat	
NOAE		: >= 0,1 mg/l	
	ation Route	: inhalation (vapor)
Expos	sure time	: 74 Days	
Speci		: Rabbit	
LOAE		: 260 mg/kg	
Applic	ation Route	: Skin contact	



Exposure time : 18 Days Aspiration toxicity Not classified based on available information. Experience with human exposure Components: Kanamycin acid sulfate: Symptoms: Abdominal pain, altered taste, Dizziness Remarks: The most common side effects are: Target Organs: Kidney General Information : Target Organs: Kidney Symptoms: Abdominal pain, altered taste, Dizziness Remarks: The most common side effects are: Target Organs: Kidney Symptoms: Voniting, skin rash, numbness SECTION 12. ECOLOGICAL INFORMATION Ecotoxicity Components: Kanamycin acid sulfate: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 m Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,01 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 <tr< th=""><th>/ersion 2.2</th><th>Revision Date: 28.09.2024</th><th></th><th>OS Number: 272801-00005</th><th>Date of last issue: 15.12.2023 Date of first issue: 18.09.2023</th></tr<>	/ersion 2.2	Revision Date: 28.09.2024		OS Number: 272801-00005	Date of last issue: 15.12.2023 Date of first issue: 18.09.2023			
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Components: Kanamycin acid sulfate: Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 m Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h	ECTION	12. ECOLOGICAL INFO	ORI	IATION				
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Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 m Exposure time: 96 h Method: OECD Test Guideline 203Toxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202Toxicity to algae/aquatic plants:EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201NOEC (Pseudokirchneriella subcapitata (green algae)) mg/l Exposure time: 72 h Method: OECD Test Guideline 201NOEC (Pseudokirchneriella subcapitata (green algae)) mg/l Exposure time: 72 h Method: OECD Test Guideline 201EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201NOEC (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201	Com	ponents:						
 Exposure time: 96 h Method: OECD Test Guideline 203 Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic plants EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 	Kana	mycin acid sulfate:						
aquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202 Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)) mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h	Toxic	ity to fish	:	Exposure time: 9	6 h			
plants mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)) mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h			:	Exposure time: 4	3 h			
mg/l Exposure time: 72 h Method: OECD Test Guideline 201 EC50 (blue-green algae): 0,03 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h			:	mg/l Exposure time: 72	2 h			
Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (blue-green algae): 0,01 mg/l Exposure time: 72 h				mg/l Exposure time: 72	2 h			
Exposure time: 72 h				Exposure time: 72	2 h			
				Exposure time: 72	2 h			

M-Factor (Acute aquatic tox- icity)	:	10
Toxicity to microorganisms	:	EC50: > 461 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209



ersion 2	Revision Date: 28.09.2024		9S Number: 272801-00005	Date of last issue: 15.12.2023 Date of first issue: 18.09.2023
			NOEC: 4,9 mg/l Exposure time: 3 Test Type: Respi Method: OECD T	
Ecoto	xicology Assessment			
Acute	aquatic toxicity	:	Very toxic to aqua	atic organisms.
Chron	ic aquatic toxicity	:	Very toxic to aqu	atic life with long lasting effects.
Pheno	ol:			
Toxicit	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 24,9 mg/l 6 h
	ty to daphnia and other c invertebrates	:	EC50 (Ceriodaph Exposure time: 4	nnia dubia (water flea)): 3,1 mg/l 8 h
Toxicit plants	ty to algae/aquatic	:	EC50 (Selenastru Exposure time: 9	um capricornutum (green algae)): 61,1 mg 6 h
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC: 0,077 mg Exposure time: 6	
aquati	ty to daphnia and other c invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 1	magna (Water flea)): 10 mg/l 6 d
ic toxic Toxici	ty to microorganisms	:	IC50 (Nitrosomor Exposure time: 2	
Persis	stence and degradabili	ity		
<u>Comp</u>	onents:			
	nycin acid sulfate: gradability	:	Biodegradation: Exposure time: 2	
Pheno	ol:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD T	62 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Pheno Bioaco	ol: cumulation	:	Species: Fish	



ersion 2	Revision Date: 28.09.2024	SDS Number: 11272801-00005	Date of last issue: 15.12.2023 Date of first issue: 18.09.2023		
			n factor (BCF): 17,5 Test Guideline 305		
	on coefficient: n- ol/water	: log Pow: 1,47			
	l ity in soil ata available				
	adverse effects ata available				
CTION	13. DISPOSAL CONSI	DERATIONS			
Dispo	osal methods				
Waste	e from residues	: Do not dispose of waste into sewer. Dispose of in accordance with local regulations.			
Conta	minated 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. 			
ECTION	14. TRANSPORT INFO	RMATION			
Interr	national Regulations				
Interr UNR1	-				
UNR UN ni	rDG umber	: UN 3082			
UNR UN ni	ſDG	: ENVIRONMEN N.O.S.			
UNR UN nu Prope	r DG umber er shipping name	: ENVIRONMEN N.O.S. (Kanamycin ac			
UNR UN nu Prope	rDG umber er shipping name	: ENVIRONMEN N.O.S. (Kanamycin ac : 9			
UNR UN nu Prope Class Packi	rDG umber er shipping name ng group	: ENVIRONMEN N.O.S. (Kanamycin ac : 9 : III			
UNR UN nu Prope Class Packi Label	rDG umber er shipping name ng group s	: ENVIRONMEN N.O.S. (Kanamycin ac : 9	TALLY HAZARDOUS SUBSTANCE, LIQUID, id sulfate)		
UNRT UN nu Prope Class Packi Label Enviro	rDG umber er shipping name ng group s onmentally hazardous	: ENVIRONMEN N.O.S. (Kanamycin ac : 9 : III : 9			
UNRT UN nu Prope Class Packi Label Enviro	rDG umber er shipping name ng group s onmentally hazardous •DGR	: ENVIRONMEN N.O.S. (Kanamycin ac : 9 : III : 9			
UNRT UN nu Prope Class Packi Label Enviro IATA	rDG umber er shipping name ng group s onmentally hazardous •DGR	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA	TDG umber er shipping name ng group s onmentally hazardous •DGR • No. er shipping name	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi	FDG umber er shipping name ng group s onmentally hazardous -DGR O No. er shipping name	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label	rDG umber er shipping name ng group s onmentally hazardous •DGR •DGR •No. er shipping name	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft)	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 	id sulfate) / hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen-	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft)	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 	id sulfate) y hazardous substance, liquid, n.o.s.		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu	rDG umber er shipping name ng group sonmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous G-Code umber	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 yes UN 3082 	id sulfate) / hazardous substance, liquid, n.o.s. id sulfate)		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu	TDG umber er shipping name ng group sonmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous -Code	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMEN N.O.S. 	id sulfate) / hazardous substance, liquid, n.o.s. id sulfate) TALLY HAZARDOUS SUBSTANCE, LIQUID		
UNRT UN nu Prope Class Packi Label Enviro IATA UN/IE Prope Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu Prope	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous -Code umber er shipping name	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMEN N.O.S. (Kanamycin aci 	id sulfate) / hazardous substance, liquid, n.o.s. id sulfate) TALLY HAZARDOUS SUBSTANCE, LIQUID		
UNRT UN nu Prope Class Packi Label Enviro Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu Prope	FDG umber er shipping name ng group s onmentally hazardous -DGR 0 No. er shipping name ng group s ng instruction (cargo ft) onmentally hazardous -Code umber er shipping name	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMEN N.O.S. (Kanamycin aci 9 	id sulfate) / hazardous substance, liquid, n.o.s. id sulfate) TALLY HAZARDOUS SUBSTANCE, LIQUID,		
UNRT UN nu Prope Class Packi Label Enviro Class Packi Label Packi aircra Packi ger ai Enviro IMDG UN nu Prope	rDG umber er shipping name ng group s onmentally hazardous DGR 0 No. er shipping name ng group s ng instruction (cargo ft) ng instruction (passen- rcraft) onmentally hazardous G-Code umber er shipping name	 ENVIRONMEN N.O.S. (Kanamycin ac 9 III 9 yes UN 3082 Environmentally (Kanamycin ac 9 III Miscellaneous 964 964 yes UN 3082 ENVIRONMEN N.O.S. (Kanamycin aci 	id sulfate) / hazardous substance, liquid, n.o.s. id sulfate) TALLY HAZARDOUS SUBSTANCE, LIQUID		



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EmS Code Marine pollutant		: F-A, S-F : yes				
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.					
Do	omestic regulation					
UN Pro Cla Pa La	NTT N number oper shipping name ass acking group bels azard Identification Number	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (Kanamycin acid sulfate) 9 III 9 91 				
Sp	Special precautions for user					
ba Sh	The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.					
SECTIO	SECTION 15. REGULATORY INFORMATION					
	Safety, health and environmental regulations/legislation specific for the substance or mixture					

National List of Carcinogenic Agents for Humans - (LINACH)	:	Not applicable
Brazil. List of chemicals controlled by the Federal Police	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy

Further information

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

Full text of other abbreviations



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ACGIH		: USA. ACGIH Threshold Limit Values (TLV)					
ACGIH BEI		: ACGIH - Biological Exposure Indices (BEI)					
BR BEI		: Brazil. NR7. Pa	: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents				
BR OEL			: Brazil. NR 15 - Unhealthy activities and operations				
ACGIH / TWA		: 8-hour, time-w	eighted average				
BR OEL / LT		: Up to 48 hours	/week				

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 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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