

Version 2.1	Revision Date: 15.12.2023		S Number: 272793-00004		sue: 25.10.2023 sue: 18.09.2023
Section 1:	Identification				
Produ	ict name	:	Kanamycin Acid	Sulfate Formula	ation
Manu	facturer or supplier's d	letai	ls		
Comp	pany	:	MSD		
Addre	ess	:	33 Whakatiki Str Upper Hutt - Nev		g 908
Telep	hone	:	0800 800 543		
Emerg	gency telephone number	• :	0800 764 766 (0 CHEMCALL)	800 POISON)	0800 243 622 (0800
E-mai	il address	:	EHSDATASTEV	/ARD@msd.cor	n
Reco	mmended use of the cl	nem	ical and restriction	ons on use	
	mmended use actions on use	:	Veterinary produ Not applicable	ict	

Section 2: Hazard identification

Respiratory sensitisation	:	Category 1
Skin sensitisation	:	Category 1
Carcinogenicity	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Auditory system)
Hazardous to the aquatic environment - acute hazard	:	Category 1
Hazardous to the aquatic environment - chronic hazard	:	Category 1
GHS label elements Hazard pictograms	:	





ersion 1	Revision Date: 15.12.2023	SDS Number:Date of last issue: 25.10.202311272793-00004Date of first issue: 18.09.2023
Signa	l word	: Danger
Hazar	rd statements	 H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs (Auditory system) through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects.
Preca	utionary statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been r and understood. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed ou the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 Wear respiratory protection.
		 Response: P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308 + P313 IF exposed or concerned: Get medical advice attention. P333 + P313 If skin irritation or rash occurs: Get medical ac vice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P391 Collect spillage.
		Storage: P405 Store locked up.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
	r hazards which do n known.	ot result in classification

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components



Version	Revision Date:	SDS Number:	Date of last issue: 25.10.2023
2.1	15.12.2023	11272793-00004	Date of first issue: 18.09.2023

Chemical name	CAS-No.	Concentration (% w/w)
Kanamycin acid sulfate	64013-70-3	>= 20 -< 25
Sulphuric acid	7664-93-9	>= 0.1 -< 1
Sodium metabisulphite	7681-57-4	>= 0.1 -< 1
Phenol	108-95-2	>= 0.1 -< 0.25

Section 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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	··· ·· · · · · · · · · · · · · · · · ·
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated
Protection of first-aiders	:	exposure if swallowed. First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

Section 5: Fire-fighting measures

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do



Version 2.1	Revision Date: 15.12.2023		OS Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023	
for fir	ial protective equipment efighters hem Code	:		ire, wear self-contained breathing apparatus. otective equipment.	
Section 6	: Accidental release me	as	ures		
tive e	onal precautions, protec- equipment and emer- y procedures	:	Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).	
Envir	Environmental precautions		Prevent further Prevent spreadi barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ng over a wide area (e.g. by containment or oi ose of contaminated wash water. s should be advised if significant spillages lined.	
	Methods and materials for containment and cleaning up		Soak up with inert absorbent material. For large spills, provide dyking or other appropriate comment to keep material from spreading. If dyked material be pumped, store recovered material in appropriate conclean up remaining materials from spill with suitable a bent. Local or national regulations may apply to releases are posal of this material, as well as those materials and i employed in the cleanup of releases. You will need to mine which regulations are applicable. Sections 13 and 15 of this SDS provide information records and requirements.		
Section 7	: Handling and storage				
Tech	nical measures	:	•		
	I/Total ventilation ce on safe handling	:	Use only with a Do not breathe Do not swallow. Avoid contact w Avoid prolonged Wash skin thoro Handle in accor		

Hygiene measures
 :
 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.



Version	Revision Date: 15.12.2023	SDS Number:	Date of last issue: 25.10.2023
2.1		11272793-00004	Date of first issue: 18.09.2023
	tions for safe storage als to avoid	Wash contamina The effective ope engineering cont appropriate dego industrial hygien use of administra : Keep in properly Store in accorda	labelled containers. nce with the particular national regulations. the following product types:

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	
Sulphuric acid	7664-93-9	WES-TWA	0.1 mg/m3	NZ OEL	
	Further informa	ation: Known or	presumed human car	rcinogen	
		TWA (Tho- racic particu- late matter)	0.2 mg/m3	ACGIH	
Sodium metabisulphite	7681-57-4	WES-TWA	5 mg/m3	NZ OEL	
	Further informa	ation: Skin sensi	in sensitiser, Respiratory sensitiser		
		TWA	5 mg/m3	ACGIH	
Phenol	108-95-2	WES-TWA	1 ppm 3.8 mg/m3	NZ OEL	
	Further informa	ation: Skin absor	ption		
		WES-STEL	2 ppm 7.7 mg/m3	NZ OEL	
	Further informa	ation: Skin absor	ption		
		TWA	5 ppm	ACGIH	

Components with workplace control parameters

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling	Permissible concentra-	Basis
			op o oo	time	tion	
Phenol	108-95-2	Total phenol	Urine	End of	100 mg/l	NZ BEI
				shift		
		Phenol	Urine	End of	250 mg/g	ACGIH
				shift (As	creatinine	BEI
				soon as		
				possible		
				after		
				exposure		
				ceases)		



Version 2.1	Revision Date: 15.12.2023		S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
Engi	neering measures	:	technologies to co less quick connect All engineering co design and opera protect products,	engineering controls and manufacturing ontrol airborne concentrations (e.g., drip- ctions). ontrols should be implemented by facility ted in accordance with GMP principles to workers, and the environment. tions do not require special containment.
Pers	onal protective equipme	ent		
Fi	iratory protection Iter type protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.
M	aterial	:	Chemical-resista	nt gloves
Eye p	Eye protection		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.	
Skin	and body protection		Work uniform or I	aboratory coat.
Section 9	: Physical and chemica	l pr	operties	
Appe	arance	:	liquid	
Colou	ır	:	colourless	
Odou	ır	:	characteristic	
Odou	r Threshold	:	No data available	e
рН		:	3.5 - 5.5	
Meltir	ng point/freezing point	:	No data available	e
Initial range	boiling point and boiling	:	No data availabl	e
Flash	point	:	No data available	e
Evap	oration rate	:	No data available	e
Flam	mability (solid, gas)	:	Not applicable	
Flam	mability (liquids)	:	No data available	e
	r explosion limit / Upper nability limit	:	No data available	e



Vers 2.1	sion	Revision Date: 15.12.2023		S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available)
	Relative	e vapour density	:	No data available)
	Relative	e density	:	No data available)
	Density	,	:	1.05 - 1.10 g/cm ³	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available)
	Viscosi Visc	ty cosity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
		lar weight	:	No data available	^c
	Particle	-	:	Not applicable	

Section 10: Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	Oxidizing agents

Section 11: Toxicological information

Exposure routes	: Inhalation Skin contact
	Ingestion Eye contact



ersion 1	Revision Date: 15.12.2023		DS Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
	e toxicity lassified based on ava	ailable	information.	
Prod				
	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: 4 Test atmosphere Method: Calcula	4 h e: dust/mist
Acute	e dermal toxicity	:	Acute toxicity es Method: Calcula	stimate: > 2,000 mg/kg ation method
Com	ponents:			
Kana	mycin acid sulfate:			
Acute	e oral toxicity	:	LD50 (Rat): > 4,	000 mg/kg
			LD50 (Mouse): 7	12,000 mg/kg
			LD50 (Rabbit): >	> 3,000 mg/kg
Sulpl	huric acid:			
Acute	e oral toxicity	:	LD50 (Rat): 2,14	40 mg/kg
Acute	e inhalation toxicity	:	Acute toxicity es Exposure time: Test atmosphere Method: Expert Remarks: Based	4 h e: dust/mist
Sodiı	um metabisulphite:			
	e oral toxicity	:	LD50 (Rat): 1,54 Method: OECD	40 mg/kg Test Guideline 401
Acute	e inhalation toxicity	:	LC50 (Rat): > 5. Exposure time: 4 Test atmosphere Remarks: Based	4 h
Acute	e dermal toxicity	:		000 mg/kg Test Guideline 402 d on data from similar materials
Phen	ol:			
-	e oral toxicity	:	LD50 (Rat): 650 Method: OECD	mg/kg Test Guideline 401



ersion .1	Revision Date: 15.12.2023	-	OS Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
			Acute toxicity est Method: Expert j	timate (Humans): 140 - 290 mg/kg udgement
Acute	e inhalation toxicity	:	Exposure time: 4 Test atmosphere Method: Expert j	e: dust/mist
Acute	e dermal toxicity	:	LD50 (Rabbit): 6 Method: OECD 1	60 mg/kg Test Guideline 402
			Acute toxicity est Method: Expert j	timate (Humans): 300 mg/kg udgement
Not c	corrosion/irritation lassified based on ava ponents:	ilable	information.	
	mycin acid sulfate:	:	No data available	e
Sulp l Resu	huric acid: ^{It}	:	Corrosive after 3 minutes or less of exposure	
Sodi Resu Rema		:	Skin irritation Based on nationa	al or regional regulation.
Phen Spec Resu	ies	:	Rabbit Corrosive after 3	s minutes to 1 hour of exposure
Not c	ous eye damage/eye i lassified based on ava			
	ponents: Imycin acid sulfate:			
Rema		:	No data available	e
Sulp l Resu	huric acid: ^{It}	:	Irreversible effec	ts on the eye
Sodi	um metabisulphite:			
Spec Resu	ies	:	Rabbit Irreversible effec	ts on the eye



ersion 1	Revision Date: 15.12.2023		S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
Metho	od	:	OECD Test Guid	leline 405
Phene	ol:			
Speci		:	Rabbit	
Resul Metho	•	:	Irreversible effec OECD Test Guid	
Respi	iratory or skin sensi	tisatio	n	
_	sensitisation ause an allergic skin	reactio	n.	
-	iratory sensitisation ause allergy or asthm		ptoms or breathin	g difficulties if inhaled.
	oonents:	,		0
Kana	mycin acid sulfate:			
Test T		:	Maximisation Te	st
Speci Asses	es ssment		Guinea pig Did not cause sensitisation on laboratory animals.	
Resul		:	negative	,
	Im metabisulphite:			
Asses Rema	ssment Irks	:		dence of skin sensitisation in huma al or regional regulation.
	sment	:		tisation by inhalation.
Rema	irks	:	Based on nation	al or regional regulation.
Phene	ol:			
Test T		:	Buehler Test Skin contact	
Speci	sure routes es	:	Guinea pig	
Metho		:	OECD Test Guid	leline 406
Resul	L	•	negative	
Chror	nic toxicity			
	cell mutagenicity assified based on ava	ailable i	information.	
Comp	oonents:			
Kana	mycin acid sulfate:			
Genot	toxicity in vitro	:	Test Type: Ames Result: negative	stest
			Test Type: mitoti Test system: Esc	c recombination assay cherichia coli
			10 / 21	



Version 2.1	Revision Date: 15.12.2023	SDS Number: 11272793-000	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023				
		Result: neg	gative				
			DNA Repair n: Escherichia coli jative				
Geno	toxicity in vivo	Species: M Cell type: I	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Result: negative				
Sulph	nuric acid:						
	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) pative				
Sodiu	um metabisulphite:						
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) pative				
			In vitro mammalian cell gene mutation test ECD Test Guideline 476 gative				
Geno	toxicity in vivo	cytogenetic Species: M Application Method: O	louse Route: Subcutaneous ECD Test Guideline 474				
		Result: neg Remarks:	jative Based on data from similar materials				
Phen	ol:						
Geno	toxicity in vitro	: Test Type: Method: O Result: pos	Chromosome aberration test in vitro ECD Test Guideline 473 sitive				
Geno	toxicity in vivo	cytogenetic Species: M Application Method: O Result: pos	louse Route: Intraperitoneal injection ECD Test Guideline 474				
	cell mutagenicity -	: Positive re genicity tes	sult(s) from in vivo mammalian somatic cell muta- sts.				



Version 2.1	Revision Date: 15.12.2023	SDS Number: 11272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
May o	nogenicity cause cancer. ponents:		
Sulph	nuric acid:		
Carcii ment	nogenicity - Assess-	: Positive evid	ence from human epidemiological studies
Speci Applic	cation Route sure time It	: Mouse : Ingestion : 24 Months : negative : Based on da	ta from similar materials
	es cation Route sure time od	: Mouse : Ingestion : 103 weeks : OECD Test (: negative	Guideline 451
Suspe	oductive toxicity ected of damaging fer conents:	tility or the unborn cl	nild.
	mycin acid sulfate:		
	ts on foetal develop-	Species: Rat Application F Developmen	mbryo-foetal development coute: Intravenous injection tal Toxicity: 100 mg/kg body weight lo adverse effects
		Application F Developmen Symptoms: N	eproductive and developmental toxicity study coute: Intravenous injection tal Toxicity: NOAEL: 400 mg/kg body weight to adverse effects ns: Auditory system natal toxicity
		test Species: Gui Application F Developmen Target Orgar	eproduction/Developmental toxicity screening nea pig Route: Intramuscular tal Toxicity: NOAEL: > 100 mg/kg body weight ns: Auditory system gnificant toxicity observed in testing



Version 2.1	Revision Date: 15.12.2023	SDS Number:Date of last issue: 25.10.2011272793-00004Date of first issue: 18.09.20			
-	ohuric acid: cts on foetal develop- t	: Test Type: Embryo-foetal development Species: Rabbit Application Route: inhalation (dust/mist/fume) Result: negative			
Sod	ium metabisulphite:				
	cts on fertility	Test Type: Three-generation study Species: Rat Application Route: Ingestion Result: negative			
Effe men	cts on foetal develop- t	Test Type: Embryo-foetal development Species: Rabbit Application Route: Ingestion Result: negative			
Phe	nol·				
	cts on fertility	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative			
Effe men	cts on foetal develop- t	 Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative 			
•	roductive toxicity - As- sment	: Some evidence of adverse effects on sexual fertility, and/or on development, based on anir Remarks: Based on national or regional regula	nal experiments.		

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Causes damage to organs (Auditory system) through prolonged or repeated exposure if swal-lowed.

Components:

Kanamycin acid sulfate:

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



ersion 1	Revision Date: 15.12.2023	SDS Number: 11272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
Phene	ol:		
Asses	sment	exposure.	e to organs through prolonged or repeated
Rema	rks	: Based on natior	nal or regional regulation.
Repea	ated dose toxicity		
<u>Comp</u>	oonents:		
Specie LOAE Applic Expos	L cation Route sure time t Organs	: Rat : TDlo = 12000 m : Intraperitoneal : 30 d : Kidney, Ureter, : Significant toxic	
Expos	L cation Route sure time t Organs		/kg n, Eye, Kidney, olfactory sense organs ity observed in testing
Expos	EL L sation Route sure time t Organs	 Guinea pig 100 mg/kg > 200 mg/kg Intramuscular 4 Weeks Auditory system Significant toxic 	n ity observed in testing
Expos	L cation Route sure time t Organs	: Rabbit, male : > 50 mg/kg : Intramuscular : 30 d : Auditory system : Significant toxic	n, Kidney ity observed in testing
Sodiu	ım metabisulphite:		
Specie NOAE LOAE Applic	es EL	: Rat : 110 mg/kg : 220 mg/kg : Ingestion : 104 Weeks	
Phene	ol:		
Specie LOAE	es	: Rat : 300 mg/kg : Ingestion	



Version 2.1	Revision Date: 15.12.2023		0S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
Ex Me Sp NC Ap Ex LO Ap	posure time ethod ecies DAEL plication Route posure time ecies DAEL plication Route posure time		90 Days OECD Test Guide Rat >= 0.1 mg/l inhalation (vapour 74 Days Rabbit 260 mg/kg Skin contact 18 Days	eline 408
As No	piration toxicity t classified based on availa perience with human exp		information.	
<u>Co</u>	mponents:			
	namycin acid sulfate: eneral Information	:	Remarks: The mo Target Organs: Ki	ninal pain, altered taste, Dizziness st common side effects are:
Section	12: Ecological information	on		
Ec	otoxicity			
<u>Co</u>	mponents:			
Ka	namycin acid sulfate:			
To	xicity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	xicity to algae/aquatic ints	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	



Version 2.1	Revision Date: 15.12.2023		OS Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
icity)	or (Acute aquatic tox-	: :	Exposure time: 7 Method: OECD T NOEC (blue-gree Exposure time: 7 Method: OECD T 10 EC50: > 461 mg/ Exposure time: 3 Test Type: Respi Method: OECD T NOEC: 4.9 mg/l Exposure time: 3 Test Type: Respi	Test Guideline 201 en algae): 0.01 mg/l 2 h Test Guideline 201 I h iration inhibition Test Guideline 209 h
	icology Assessment quatic toxicity	:	Very toxic to aqu	atic organisms
	aquatic toxicity	•		atic life with long lasting effects.
Chronic		•		
Toxicity	Sulphuric acid: Toxicity to daphnia and other aquatic invertebrates		Exposure time: 4	nagna (Water flea)): > 100 mg/l 8 h ⁻ est Guideline 202
Toxicity	to microorganisms	:	NOEC: 88 mg/l Exposure time: 2	1 d
Sodiun	n metabisulphite:			
Toxicity	to fish	:	LC50 (Oncorhyne Exposure time: 9	chus mykiss (rainbow trout)): 178 mg/l 6 h
	to daphnia and other invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 89 mg/l 8 h
Toxicity plants	to algae/aquatic	:	ErC50 (Desmode Exposure time: 7	esmus subspicatus (green algae)): 43.8 mg/l 2 h
			EC10 (Desmode: Exposure time: 7	smus subspicatus (green algae)): 33.3 mg/l 2 h
Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 3 Method: OECD T	rio (zebra fish)): >= 316 mg/l 4 d Fest Guideline 210 on data from similar materials



rsion	Revision Date: 15.12.2023		9S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023
	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 2	magna (Water flea)): >= 10 mg/l 1 d
	ty to microorganisms	:	EC10 (Pseudomo Exposure time: 1	onas putida): 30.8 mg/l 7 h
Phene	ol:			
Toxici	ty to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 24.9 mg/l 6 h
	ty to daphnia and other ic invertebrates	:	EC50 (Ceriodaph Exposure time: 4	nia dubia (water flea)): 3.1 mg/l 8 h
Toxici plants	ty to algae/aquatic	:	EC50 (Selenastru Exposure time: 9	um capricornutum (green algae)): 61.1 m 6 h
Toxici icity)	ty to fish (Chronic tox-	:	NOEC: 0.077 mg Exposure time: 6	
aquati	ty to daphnia and other ic invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 1	magna (Water flea)): 10 mg/l 6 d
ic toxi Toxici	ty to microorganisms	:	IC50 (Nitrosomor Exposure time: 24	
Persis	stence and degradabili	ty		
<u>Comp</u>	oonents:			
	mycin acid sulfate: gradability	:	Result: Not readil Biodegradation: Exposure time: 2 Method: OECD T	0 %
Phene	ol:			
Biode	gradability	:	Result: Readily b Biodegradation: Exposure time: 1 Method: OECD T	62 %
Bioac	cumulative potential			
Comp	oonents:			
Phene	ol:			
Bioac	cumulation	:		factor (BCF): 17.5 est Guideline 305



1	Revision Date: 15.12.2023	-	0S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023			
_							
	on coefficient: n- ol/water	:	log Pow: 1.47				
	ity in soil ta available						
	adverse effects ta available						
ection 13	: Disposal considerat	ions	5				
Dispo	sal methods						
	from residues	:	Dispose of in acc	of waste into sewer. cordance with local regulations.			
Contaminated packaging		:	 Empty containers should be taken to an approved waste had dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 				
ection 14	: Transport information	on					
Intern	ational Regulations						
UNRT	DG						
UNRT UN ու	DG	:	N.O.S.				
UNRT UN nu Prope Class	DG Imber r shipping name	:	ENVIRONMENT N.O.S. (Kanamycin acid 9	ALLY HAZARDOUS SUBSTANCE, LIQUID d sulfate)			
UNRT UN nu Prope Class Packir	DG Imber r shipping name	:	ENVIRONMENT N.O.S. (Kanamycin acid 9 III				
UNRT UN nu Prope Class Packir Labels	DG Imber r shipping name	:	ENVIRONMENT N.O.S. (Kanamycin acid 9				
UNRT UN nu Prope Class Packir Labels	TDG umber r shipping name ng group sonmentally hazardous DGR	: : : : : : : : : : : : : : : : : : : :	ENVIRONMENT N.O.S. (Kanamycin acid 9 III 9				
UNRT UN nu Prope Class Packir Labels Envirc IATA- UN/ID Prope	TDG umber r shipping name ng group sonmentally hazardous DGR		ENVIRONMENT N.O.S. (Kanamycin acid 9 III 9 yes UN 3082 Environmentally (Kanamycin acid	d sulfate) hazardous substance, liquid, n.o.s.			
UNRT UN nu Prope Class Packir Labels Enviro IATA- UN/ID Prope Class	DG umber r shipping name ng group sommentally hazardous DGR No. r shipping name	:::::::::::::::::::::::::::::::::::::::	ENVIRONMENT N.O.S. (Kanamycin acid 9 III 9 yes UN 3082 Environmentally (Kanamycin acid 9	d sulfate) hazardous substance, liquid, n.o.s.			
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Version 2.1	Revision Date: 15.12.2023	SDS Number: 11272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023				
Label	s Code	: 9					
=	le pollutant	: F-A, S-F : yes					
		\$	RPOL 73/78 and the IBC Code				
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.						
Natio	nal Regulations						
NZS	5433						
UN n	umber	: UN 3082					
Prope	er shipping name	N.O.S.	ITALLY HAZARDOUS SUBSTANCE, LIQUID,				
0		(Kanamycin a	cid sulfate)				
Class		: 9					
Label	ng group	: III : 9					
	s hem Code	: 3Z					
	e pollutant	: yes					
Spec	ial precautions for us	er					
•	•		for informational purposes only, and solely				

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.

Section 15: Regulatory information

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

HSNO Approval Number

HSR100759 Veterinary Medicines Non dispersive Open System Application Group Standard

HSW Controls

Certified handler certificate not required. Tracking hazardous substance not required. Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

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

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

Section 16: Other information

Revision Date	: 15.12.2023

Further information



Version 2.1	Revision Date: 15.12.2023		0S Number: 272793-00004	Date of last issue: 25.10.2023 Date of first issue: 18.09.2023	
	rces of key data used to pile the Safety Data et	:		data, data from raw material SDSs, OECD rch results and European Chemicals Agen- opa.eu/	
Dat	Date format		dd.mm.yyyy		
Ful	text of other abbreviation	ons			
AC0 NZ	ACGIH ACGIH BEI NZ BEI NZ OEL		USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) New Zealand. Biological Exposure Indices New Zealand. Workplace Exposure Standards for Atmospl ic Contaminants		
NZ	GIH / TWA OEL / WES-TWA OEL / WES-STEL	: : :		nted average ure Standard - Time Weighted average ure Standard - Short-Term Exposure Limit	

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 mate-



Version	Revision Date:	SDS Number:	Date of last issue: 25.10.2023
2.1	15.12.2023	11272793-00004	Date of first issue: 18.09.2023

rial 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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