

### **M-M-R** Formulation

Vers 5.1		Revision Date: 30.09.2023		S Number: 83-00023		ue: 04.04.2023 sue: 26.03.2015
Sect	tion 1: Id	lentification				
	Product	name	:	M-M-R Formulati	on	
	Manufa	cturer or supplier's d	etai	ls		
	Compan	у	:	MSD		
	Address		:	33 Whakatiki Stre Upper Hutt - New		g 908
	Telepho	ne	:	0800 800 543		
	Emerger	ncy telephone number	:	0800 764 766 (08 CHEMCALL)	300 POISON)	0800 243 622 (0800
	E-mail a	ddress	:	EHSDATASTEW	ARD@msd.con	n
	Recomr	nended use of the ch	emi	ical and restrictio	ons on use	
		nended use ons on use	:	Pharmaceutical Not applicable		
Sect	tion 2: H	azard identification				
	GHS Cla	assification				
		ous to the aquatic nent - acute hazard	:	Category 1		
		ous to the aquatic nent - chronic hazard	:	Category 3		
	GHS lab	el elements				
	Hazard ı	pictograms	:	¥		
	Signal w	vord	:	Warning		
	Hazard	statements	:	H400 Very toxic t H412 Harmful to		long lasting effects.
	Precauti	onary statements	:	Prevention:		

Response:

P273 Avoid release to the environment.

P391 Collect spillage.



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#### Disposal:

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

#### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

: Mixture

#### Section 3: Composition/information on ingredients

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Sucrose	57-50-1	>= 1 -< 10
Neomycin, sulfate (salt)	1405-10-3	>= 0.025 -< 0.1

#### 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. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. 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 Protection of first-aiders Notes to physician	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation. No special precautions are necessary for first aid responders. 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	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a



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Haza ucts	ardous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour Oxides of phosph Phosphorus comp	oustion products may be a hazard to health. nds orus pounds
Spec ods	Specific extinguishing meth- ods		cumstances and t Use water spray t	NOx) 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
for fir	cial protective equipment refighters chem Code	:	essary.	ed breathing apparatus for firefighting if nec- rective equipment.
Section 6	3: Accidental release me	eas	ures	
tive e	onal precautions, protec- equipment and emer- y procedures	:		ing advice (see section 7) and personal pro- recommendations (see section 8).

Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. 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	:	<ul> <li>Sweep up or vacuum up spillage and collect in suitable container for disposal.</li> <li>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> <li>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.</li> </ul>

### Section 7: Handling and storage

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding



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	Local/Total ventilation Advice on safe handling		<ul> <li>and bonding, or inert atmospheres.</li> <li>Use only with adequate ventilation.</li> <li>Do not breathe dust.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Minimize dust generation and accumulation.</li> </ul>				
Hygi	Hygiene measures		ntainer closed when not in use. ay from heat and sources of ignition. acautionary measures against static discharges. e to prevent spills, waste and minimize release to the ment. ure to chemical is likely during typical use, provide eye systems and safety showers close to the working ing do not eat, drink or smoke.				
	ditions for safe storage rials to avoid	: Keep in Store in : Do not s	ntaminated clothing before re-use. properly labelled containers. accordance with the particular national regulations. tore with the following product types: xidizing agents				

### Section 8: Exposure controls/personal protection

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Sucrose	57-50-1	WES-TWA	10 mg/m3	NZ OEL
		TWA	10 mg/m3	ACGIH
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m3 (OEB 1)	Internal
	Further inform	ation: DSEN, O	ГО	
		Wipe limit	0.1 mg/100 cm <sup>2</sup>	Internal

Engineering measures :	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are de- signed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).
Personal protective equipmen	t
Respiratory protection :	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type
Material :	Chemical-resistant gloves



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	emarks	:	Wash hands befo	repeated contact use protective gloves. bre breaks and at the end of workday.
	protection and body protection	:	Safety goggles	ng personal protective equipment: ashed after contact.
ection 9	: Physical and chemica	l pr	operties	
Appe	arance	:	lyophilised cake	
Colou	ır	:	light yellow	
Odou	ır	:	No data availabl	e
Odou	r Threshold	:	No data availabl	e
рН		:	No data availabl	e
Meltir	ng point/freezing point	:	Not applicable	
Initial range	boiling point and boiling	:	Not applicable	
Flash	point	:	Not applicable	
Evap	oration rate	:	No data availabl	e
Flam	mability (solid, gas)	:	May form explosed dling or other me	sive dust-air mixture during processing, han eans.
Flam	mability (liquids)	:	No data availabl	e
	r explosion limit / Upper nability limit	:	No data availabl	e
	r explosion limit / Lower nability limit	:	No data availabl	e
Vapo	ur pressure	:	No data availabl	e
Relat	ive vapour density	:	No data availabl	e
Dens	ity	:	No data availabl	e
	pility(ies) ater solubility	:	soluble	
	ion coefficient: n-	:	No data availabl	e
	ol/water ignition temperature	:	No data availabl	e
Deco	mposition temperature	:	No data availabl	e



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	sity scosity, kinematic sive properties	: No data : Not exp	a available plosive
Moleo	Oxidizing properties Molecular weight Particle size		bstance or mixture is not classified as oxidizing. plicable a available
Reac Chen	0: Stability and reactivi tivity hical stability ibility of hazardous reac-	: Not cla : Stable : May fo dling ol	assified as a reactivity hazard. under normal conditions. rm explosive dust-air mixture during processing, han- r other means. act with strong oxidizing agents.
Incon Haza	Conditions to avoid Incompatible materials Hazardous decomposition products		lames and sparks. dust formation. ng agents rardous decomposition products are known.
	ction 11: Toxicological informa		on ntact on ntact
Not c <u>Com</u> Sucre	e toxicity lassified based on availa ponents: ose: e oral toxicity		on. Rat): 29,700 mg/kg
Neon	<b>nycin, sulfate (salt):</b> oral toxicity	: LD50 (N	Au). 29,700 mg/kg Mouse): 2,880 mg/kg Rat): 2,750 mg/kg
	e toxicity (other routes of nistration)	: LD50 (F	Rat): 633 mg/kg tion Route: Subcutaneous



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**Application Route: Intraperitoneal** 

LD50 (Mouse): 27.6 mg/kg Application Route: Intravenous

LD50 (Mouse): 275 mg/kg Application Route: Subcutaneous

#### Skin corrosion/irritation

Not classified based on available information.

#### Components:

#### Neomycin, sulfate (salt):

Species	:	Rabbit
Result	:	Mild skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### Neomycin, sulfate (salt):

Species	:	Rabbit
Result	:	No eye irritation

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

#### Neomycin, sulfate (salt):

Exposure routes	:	Dermal
Species	:	Humans
Result	:	positive

#### **Chronic toxicity**

#### Germ cell mutagenicity

Not classified based on available information.

:

#### **Components:**

#### Sucrose:

Genotoxicity in vitro

Test Type: In vitro mammalian cell gene mutation test Result: negative



rsion	Revision Date: 30.09.2023	SDS Nu 81083-0		Date of last issue: 04.04.2023 Date of first issue: 26.03.2015
Neon	nycin, sulfate (salt):			
Geno	otoxicity in vitro		Type: Bac ult: negativ	terial reverse mutation assay (AMES) e
		Test		itro mammalian cell gene mutation test hinese hamster ovary cells e
		Test		omosomal aberration uman lymphocytes
			Type: in v ult: negativ	itro micronucleus test e
Geno	otoxicity in vivo	Spec Cell Appl	cies: Mous type: Bone	e marrow ute: Intravenous injection
Not c <u>Com</u>	inogenicity lassified based on ava ponents: pycin, sulfate (salt):	lable inforn	nation.	
Spec	sure time	: Rat : 2 Ye : nega		
-	oductive toxicity		(	
	lassified based on ava <b>ponents:</b>	lable inform	hation.	
Neon	nycin, sulfate (salt):			
Effec	ts on fertility	Spec Appl Gene Resu	cies: Rat ication Ro eral Toxicit	y - Parent: NOAEL: 25 mg/kg body weigh cts on fertility and early embryonic develo
Effec ment	ts on foetal develop-	Spec Appl Emb	cies: Rat ication Ro ryo-foetal	oryo-foetal development ute: Oral coxicity: NOAEL: 275 mg/kg body weight erse effects, No teratogenic effects
			Type: Dev cies: Rat	relopment



rsion	Revision Date: 30.09.2023	SDS Number 81083-00023	
Repro	oductive toxicity - As-	Developm Result: po : Some evi	dence of adverse effects on development, based
sessn	nent	animal ex	periments.
	- single exposure		
Not cl	assified based on avai	lable informatior	٦.
	- repeated exposure		
Not cl	assified based on avai	lable informatior	ז.
<u>Comp</u>	oonents:		
Neom	nycin, sulfate (salt):		
•	t Organs ssment	: Kidney, ir : May caus exposure	e damage to organs through prolonged or repeate
Rema	ırks	: Based on	human experience.
-	ated dose toxicity ponents:		
Comp Neom Speci	oonents: nycin, sulfate (salt): es	: Mouse	
Comr Neom Speci LOAE	oonents: nycin, sulfate (salt): es L	: 30 mg/kg	00115
Comp Neom Speci LOAE Applic	oonents: nycin, sulfate (salt): es		eous
Comp Neom Speci LOAE Applic Expos	oonents: nycin, sulfate (salt): es L cation Route	: 30 mg/kg : Subcutan	eous
Comp Neom Speci LOAE Applic Expos Targe Speci	oonents: nycin, sulfate (salt): es EL cation Route sure time t Organs	: 30 mg/kg : Subcutan : 14 d : Kidney : Guinea pi	
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE	oonents: nycin, sulfate (salt): es L cation Route sure time t Organs es	: 30 mg/kg : Subcutan : 14 d : Kidney : Guinea pi : 50 mg/kg	g
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic	oonents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route cation Route	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>Intramuso</li> </ul>	g g cular
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos	oonents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time cation Route sure time	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>Intramuso</li> <li>30 - 60 W</li> </ul>	g g cular
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe	ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time ture time ture time ture time ture time	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>Intramuso</li> <li>30 - 60 W</li> <li>ear</li> </ul>	g g cular /eeks
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe	ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time t Organs es sure time sure time t Organs	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>Intramusc</li> <li>30 - 60 W</li> <li>ear</li> <li>Guinea pi</li> </ul>	g g cular /eeks
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe	ponents: hycin, sulfate (salt): es EL cation Route sure time t Organs es EL cation Route sure time t Organs es EL cation Route sure time t Organs	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>100 mg/kg</li> <li>30 - 60 W</li> <li>ear</li> <li>Guinea pi</li> <li>10 mg/kg</li> <li>Oral</li> </ul>	g g cular /eeks
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos	ponents: hycin, sulfate (salt): es EL cation Route sure time t Organs es EL cation Route sure time t Organs es EL cation Route sure time t organs es EL cation Route sure time t organs	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>Intramusc</li> <li>30 - 60 W</li> <li>ear</li> <li>Guinea pi</li> <li>10 mg/kg</li> <li>Oral</li> <li>90 d</li> </ul>	g cular /eeks
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Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos Rema	ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time t Organs es L cation Route sure time t organs es EL cation Route sure time t organs es EL cation Route sure time t organs es	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>100 mg/kg</li> <li>30 - 60 W</li> <li>ear</li> <li>Guinea pi</li> <li>10 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>No signifie</li> <li>Guinea pi</li> </ul>	g cular /eeks /g cant adverse effects were reported
Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos Rema	ponents: hycin, sulfate (salt): es L cation Route sure time t Organs es L cation Route sure time t Organs es L cation Route sure time t organs es L cation Route sure time t organs es L cation Route sure time t organs	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>100 mg/kg</li> <li>Intramusc</li> <li>30 - 60 W</li> <li>ear</li> <li>Guinea pi</li> <li>10 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>No signified</li> </ul>	g cular /eeks /g cant adverse effects were reported
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Comp Neom Speci LOAE Applic Expos Targe Speci NOAE LOAE Applic Expos Targe Speci NOAE Applic Expos Rema Speci NOAE Applic Expos Targe	ponents: nycin, sulfate (salt): es EL cation Route sure time t Organs es EL cation Route sure time t Organs es EL cation Route sure time t Corgans es EL cation Route sure time t Corgans es EL cation Route sure time es EL cation Route sure time	<ul> <li>30 mg/kg</li> <li>Subcutan</li> <li>14 d</li> <li>Kidney</li> <li>Guinea pi</li> <li>50 mg/kg</li> <li>100 mg/kg</li> <li>100 mg/kg</li> <li>30 - 60 W</li> <li>ear</li> <li>Guinea pi</li> <li>10 mg/kg</li> <li>Oral</li> <li>90 d</li> <li>No signific</li> <li>Guinea pi</li> <li>100 mg/kg</li> <li>Subcutan</li> </ul>	g cular /eeks /g cant adverse effects were reported



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Revision Date:

30.09.2023

Version

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	Application Route	:	Intramuscular
	Exposure time		30 d
	Target Organs	:	
	Target Organs	·	Kidney
	Species	:	Rat
	LOAEL	:	25 mg/kg
	Application Route	:	oral (feed)
	Exposure time		84 Weeks
	Target Organs	:	ear
		:	
	Symptoms	•	hearing loss
	Remarks	:	mortality observed
	Species	:	Dog
	LOAEL	:	20 mg/kg
	Application Route		Subcutaneous
	Exposure time	:	90 d
		:	•••
	Target Organs	÷	Kidney
	Assistant toxisity		
	Aspiration toxicity		
	Not classified based on availa	ble	information.
	Experience with human exp	osı	ire
	Components:		
	Neomycin, sulfate (salt):		
	Skin contact	:	Symptoms: Sensitisation
			Remarks: May irritate skin.
	Eye contact	:	Remarks: May cause eye irritation.
	Ingestion	:	Symptoms: Nausea, Vomiting, Diarrhoea, tinnitus, hearing
	0		loss, Loss of balance
Sec	tion 12: Ecological information	n	
000		511	
	Ecotoxicity		
	0		
	Components:		
	<u>Components:</u> Neomycin, sulfate (salt):		
	Neomycin, sulfate (salt):		FC50 (Daphnia magna (Water flea)): > 72 mg/l
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): > 72 mg/l
	Neomycin, sulfate (salt):	:	Exposure time: 48 h
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other	:	
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other	:	Exposure time: 48 h Method: OECD Test Guideline 202
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other aquatic invertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035
	Neomycin, sulfate (salt): Toxicity to daphnia and other aquatic invertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035 EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l
	<b>Neomycin, sulfate (salt):</b> Toxicity to daphnia and other aquatic invertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035 EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l Exposure time: 72 h
	Neomycin, sulfate (salt): Toxicity to daphnia and other aquatic invertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035 EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l
	Neomycin, sulfate (salt): Toxicity to daphnia and other aquatic invertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035 EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	Neomycin, sulfate (salt): Toxicity to daphnia and other aquatic invertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 LC50 (Americamysis): 39 mg/l Exposure time: 96 h Method: US-EPA OPPTS 850.1035 EC50 (Anabaena flos-aquae (cyanobacterium)): 0.00075 mg/l Exposure time: 72 h

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ersion I	Revision Date: 30.09.2023	SDS Number: 81083-00023	Date of last issue: 04.04.2023 Date of first issue: 26.03.2015
icity) M-Fac toxicit	ctor (Acute aquatic tox- ctor (Chronic aquatic y) ty to microorganisms	EC50 (Pseud mg/l Exposure time Method: OEC NOEC (Pseud 0.0022 mg/l Exposure time Method: OEC : 1,000 : 10 : EC50 (Natura Exposure time Test Type: Re Method: OEC EC10 (Natura	D Test Guideline 201 okirchneriella subcapitata (green algae)): 0.00 e: 72 h D Test Guideline 201 dokirchneriella subcapitata (green algae)): e: 72 h D Test Guideline 201 I microorganism): 107.6 mg/l e: 3 h espiration inhibition D Test Guideline 209 I microorganism): 2.8 mg/l
		Exposure time Test Type: Re	
Persis	stence and degradabil	ity	
<u>Comp</u>	oonents:		
	<b>ycin, sulfate (salt):</b> gradability	: Result: rapidly Biodegradatic Exposure time Method: OEC	n: 50 %
Bioac	cumulative potential		
<u>Comp</u>	oonents:		
Sucro	ose:		
	on coefficient: n- ol/water	: Pow: < 1	
Partiti	ycin, sulfate (salt): on coefficient: n- bl/water	: log Pow: < -2	
Male !!	ity in soil		



rsion I	Revision Date: 30.09.2023	SDS Number: 81083-00023	Date of last issue: 04.04.2023 Date of first issue: 26.03.2015
	adverse effects		
	ita available	•	
	3: Disposal considerat	ions	
Dispo	osal methods		
Waste	e from residues		e of waste into sewer. accordance with local regulations.
Conta	minated packaging	dling site for re	ers should be taken to an approved waste han ecycling or disposal. e specified: Dispose of as unused product.
ction 14	4: Transport information	on	
Intern	national Regulations		
UNRT	ſDG		
UN nu	umber	: UN 3077	
	r shipping name	N.O.S. (Neomycin, si	NTALLY HAZARDOUS SUBSTANCE, SOLID, ulfate (salt))
Class		: 9	
	ng group	:	
Labels	onmentally hazardous	: 9 : yes	
IATA-	-	, , , , , , , , , , , , , , , , , , ,	
		: UN 3077	
	er shipping name		lly hazardous substance, solid, n.o.s. ulfate (salt))
Class		: 9	
	ng group	: 111	
Label		: Miscellaneous	
aircra		: 956	
ger ai		: 956	
Enviro	onmentally hazardous	: yes	
IMDG	-Code		
	umber	: UN 3077	
Prope	er shipping name	N.O.S.	NTALLY HAZARDOUS SUBSTANCE, SOLID,
Class		(Neomycin, su : 9	inate (Sall)
	ng group	:	
Label		: 9	
EmS	Code	: F-A, S-F	
Marin	e pollutant	: yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.



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Natio	nal Regulations		
NZS 5 UN nu Prope		: UN 3077 : ENVIRONME N.O.S.	INTALLY HAZARDOUS SUBSTANCE, SOLID,
Class Packi	na aroup	(Neomycin, s : 9 : III	sulfate (salt))

Packing group	:	
Labels	:	9
Hazchem Code	:	2Z
Marine pollutant	:	no

### Special precautions for user

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**

HSR100425 Pharmaceutical Active Ingredients 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	:	30.09.2023		
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 Agen- cy, http://echa.europa.eu/		
Date format	:	dd.mm.yyyy		
Full text of other approxistions				

#### Full text of other abbreviations



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ACGI NZ O			Threshold Limit Values (TLV) . Workplace Exposure Standards for Atmospher- nts		
			3-hour, time-weighted average Vorkplace Exposure Standard - Time Weighted average		
Land Carcii Stand	of Brazil; ASTM - Am nogen, Mutagen or F lardisation; DSL - Don	erican Society for th Reproductive Toxica nestic Substances Li	icals; ANTT - National Agency for Transport by e Testing of Materials; bw - Body weight; CMR - nt; DIN - Standard of the German Institute for st (Canada); ECx - Concentration associated with		

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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