

Version 1.3	Revision Date: 30.09.2023		S Number: 119508-00004	Date of last issue: 04.04.2023 Date of first issue: 07.12.2022	
SECTION	1. IDENTIFICATION				
Produ	uct name	:	Benzylpenicillin	/ Neomycin Formulation	
Manu	afacturer or supplier's	s deta	ils		
Com	bany	:	MSD		
Address		:	Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	Telephone		908-740-4000		
Emer	Emergency telephone		1-908-423-6000		
E-ma	il address	:	: EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chem	ical and restricti	ons on use	
	mmended use ictions on use	:	Veterinary produ Not applicable	uct	

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification		
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H317 May cause an allergic skin reaction.</li> <li>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</li> <li>H361d Suspected of damaging the unborn child.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> </ul>



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Precau	utionary Statements	P202 Do not ha and understood P261 Avoid bre P272 Contamir the workplace. P273 Avoid rele P280 Wear pro tion/ face prote	eathing vapors. hated work clothing should not be allowed out of ease to the environment. tective gloves/ protective clothing/ eye protec-
		P304 + P340 IF keep comfortat P308 + P313 IF attention. P333 + P313 If vice/ attention. P342 + P311 If POISON CENT	ake off contaminated clothing and wash it before
		Storage:	
		P405 Store loc	ked up.
		<b>Disposal:</b> P501 Dispose disposal plant.	of contents/ container to an approved waste
Additi	onal Labeling		
The fo	-	the mixture consists o	f ingredient(s) with unknown hazards to the
Other	hazards which do no	ot result in classificat	tion
None I	known.		

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	8042-47-5	>= 70 -< 90
Benzylpenicillin	61-33-6	>= 10 -< 20
Neomycin, sulfate (salt)	1405-10-3	>= 5 -< 10
Aluminum tristearate	637-12-7	>= 1 -< 5

#### **SECTION 4. FIRST AID MEASURES**



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General advice		advice immed	advice immediately. When symptoms persist or in all cases of doubt seek medical		
If inhaled		If not breathir If breathing is	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.		
In cas	e of skin contact	<ul> <li>In case of contact, immediately flush skin with soap at of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>			
In cas	se of eye contact	: Flush eyes w	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.		
lf swa	llowed	: If swallowed, Get medical a	DO NOT induce vomiting.		
	important symptoms ffects, both acute and ed	<ul> <li>May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficu- ties if inhaled. Suspected of damaging the unborn child. Excessive exposure may aggravate preexisting asthma an other respiratory disorders (e.g. emphysema, bronchitis, re</li> </ul>			
Prote	ction of first-aiders	: First Aid resp and use the r	<ul> <li>tive airways dysfunction syndrome).</li> <li>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).</li> </ul>		
Notes	to physician		matically 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 Metal 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 so. Evacuate area.
Special protective equipment for fire-fighters	:	

#### SECTION 6. ACCIDENTAL RELEASE MEASURES



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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		:	For large spills, pr containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national r disposal of this ma employed in the cl determine which r Sections 13 and 1	absorbent material. ovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate ng materials from spill with suitable egulations may apply to releases and aterial, as well as those materials and items eanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures Local/Total ventilation Advice on safe handling	<ul> <li>See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.</li> <li>Use only with adequate ventilation.</li> <li>Do not get on skin or clothing. Do not breathe vapors. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers. Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
Conditions for safe storage	<ul> <li>Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Keep tightly closed.</li> </ul>
Materials to avoid	<ul> <li>Store in accordance with the particular national regulations.</li> <li>Do not store with the following product types:</li> <li>Strong oxidizing agents</li> <li>Gases</li> </ul>





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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	CMP (Mist)	5 mg/m <sup>3</sup>	AR OEL
¥		CMP - CPT (Mist)	10 mg/m <sup>3</sup>	AR OEL
		TWA (Inhalable particulate matter)	5 mg/m³	ACGIH
Benzylpenicillin	61-33-6	TWA	600 μg/m3 (OEB 2)	Internal
	Further inforn	nation: RSEN, DS	SEN	
		Wipe limit	100 µg/100 cm2	Internal
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m3 (OEB 1)	Internal
	Further inforn	nation: DSEN, OT	ГО	
		Wipe limit	0.1 mg/100 cm <sup>2</sup>	Internal
Aluminum tristearate	637-12-7	CMP	10 mg/m <sup>3</sup>	AR OEL
	Further inforn	nation: A4 - Not c	lassifiable as a huma	n carcinogen
		TWA (Inhalable particulate matter)	10 mg/m³	ACGIH
		TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable particulate matter)	1 mg/m³ (Aluminum)	ACGIH

Engineering measures:Use appropriate engineering controls and manufacturing<br/>technologies to control airborne concentrations (e.g., drip-<br/>less quick connections).<br/>All engineering controls should be implemented by facility<br/>design and operated in accordance with GMP principles to<br/>protect products, workers, and the environment.<br/>Laboratory operations do not require special containment.Personal protective equipment<br/>Respiratory protection:If adequate local exhaust ventilation is not available or<br/>exposure assessment demonstrates exposures outside the<br/>recommended guidelines, use respiratory protection.

Filter type Hand protection	: Combined particulates and organic vapor type
Material	: Chemical-resistant gloves
Eye protection	: Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions,



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	and body protection one measures	<ul> <li>Wear a faceshie potential for dire aerosols.</li> <li>Work uniform or</li> <li>If exposure to ch eye flushing sys working place.</li> <li>When using do n Contaminated w workplace.</li> <li>Wash contamina The effective op engineering con appropriate deg</li> </ul>	s, wear the appropriate goggles. Id or other full face protection if there is a fact contact to the face with dusts, mists, or aboratory coat. The mical is likely during typical use, provide tems and safety showers close to the mot eat, drink or smoke. Fork clothing should not be allowed out of the ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, the monitoring, medical surveillance and the ative controls.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	cream
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	7
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available



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	Density	,	:	0,9 g/cm <sup>3</sup>	
;	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n-	:	Not applicable	
		hition temperature	:	No data available	9
I	Decom	position temperature	:	No data available	9
Ň	Viscosi Visc	ty cosity, kinematic	:	No data available	9
I	Explosi	ve properties	:	Not explosive	
(	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
I	Molecu	lar weight	:	No data available	9
I	Particle	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
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : exposure	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Not classified based on available	information.
Product:	
Acute oral toxicity :	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Components:	
White mineral oil (petroleum):	
Acute oral toxicity :	LD50 (Rat): > 5.000 mg/kg

### SAFETY DATA SHEET



## **Benzylpenicillin / Neomycin Formulation**

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	Acute ir	nhalation toxicity	:	LC50 (Rat): > 5 m Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h
	Acute d	ermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2.000 mg/kg substance or mixture has no acute dermal
	Benzvl	penicillin:			
		ral toxicity	:	LD50 (Rat): 8.000	mg/kg
				LD50 (Mouse): > \$	5.000 mg/kg
	Acute to adminis	oxicity (other routes of stration)	:	LD50 (Mouse): 3.8 Application Route	
				LD50 (Mouse): 32 Application Route	
	Neomy	cin, sulfate (salt):			
	Acute o	ral toxicity	:	LD50 (Mouse): 2.8	380 mg/kg
				LD50 (Rat): 2.750	mg/kg
	Acute to adminis	oxicity (other routes of stration)	:	LD50 (Rat): 633 m Application Route	
				LD50 (Mouse): 11 Application Route	
				LD50 (Mouse): 27 Application Route	
				LD50 (Mouse): 27 Application Route	
	Alumin	um tristearate:			
	Acute o	ral toxicity	:	LD50 (Rat, female Remarks: Based o	e): > 2.000 mg/kg on data from similar materials
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 5,15 Exposure time: 4 Test atmosphere: Method: OECD Te Remarks: Based of	h dust/mist

#### Skin corrosion/irritation

Not classified based on available information.



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Com	ponents:			
White	e mineral oil (petrole	eum):		
Speci	ies	: Rab	bit	
Resu	lt	: No s	kin irritatior	)
Neon	nycin, sulfate (salt):			
Speci	ies	: Rab	bit	
Resu		: Mild	skin irritatio	n
Alum	inum tristearate:			
Speci	ies	: reco	nstructed h	uman epidermis (RhE)
Metho	od	: OEC	D Test Gui	deline 439
Rema	arks	: Base	ed on data f	rom similar materials
Resu	lt	: No s	kin irritatior	)
	ponents: e mineral oil (petrole	eum):		
Speci		: Rab	bit	
Resu	lt	: No e	eye irritation	
Neon	nycin, sulfate (salt):			
Speci	ies	: Rab	bit	
Resu	lt	: No e	eye irritation	
Alum	inum tristearate:			
Speci		: Rab		
Resu			eye irritation	
Metho			D Test Gui	
Rema	arks	: Base	ed on data f	rom similar materials
Resp	iratory or skin sens	itization		
-	<b>sensitization</b> cause an allergic skin	reaction.		
Resp	iratory sensitization			
-	-		s or breathi	ng difficulties if inhaled.
<u>Com</u>	ponents:			
White	e mineral oil (petrole	eum):		
<b>T</b> 7	Τ	<b>_</b>		



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Benzy	Ipenicillin:		
Test Ty	ype	: Local lymph node assay (LLNA)	
	s of exposure	: Dermal	
Specie		: Mouse	
Result		: Weak sensitizer	
Test Ty		: Maximization Test	
Specie	s of exposure	: Dermal	
Result		: Guinea pig : positive	
Remar		: Based on data from similar materials	
Result		: Strong sensitizer	
Remar	ks	: Based on human experience.	
Neom	ycin, sulfate (salt):		
-	s of exposure	: Dermal	
Specie		: Humans	
Result		: positive	
Alumir	num tristearate:		
Test Ty	vpe	: Local lymph node assay (LLNA)	
	s of exposure	: Skin contact	
Specie	S	: Mouse	
Method		: OECD Test Guideline 429	
Result		: negative	
Remar	KS	: Based on data from similar materials	
Germ	cell mutagenicity		
Not cla	assified based on ava	able information.	
<u>Comp</u>	onents:		
	mineral oil (petrole	-	
Genoto	oxicity in vitro	: Test Type: In vitro mammalian cell gene mutation te Result: negative	est
Genoto	oxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus te	st (in viv
		cytogenetic assay) Species: Mouse	
		Application Route: Intraperitoneal injection	
		Method: OECD Test Guideline 474	
		Result: negative	
		Remarks: Based on data from similar materials	
	Ipenicillin:		
Benzy	cell mutagenicity -	: Weight of evidence does not support classification a	as a ger
-		cell mutagen.	
-		cen matagen.	
Germ o Assess	sment		
Germ o Assess		: Test Type: Bacterial reverse mutation assay (AMES	5)



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		Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster ovary cells Result: negative
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: positive
		Test Type: in vitro micronucleus test Result: negative
Geno	toxicity in vivo	: Test Type: Cytogenetic assay Species: Mouse Cell type: Bone marrow Application Route: Intravenous injection Result: negative
Alum	inum tristearate:	
Geno	toxicity in vitro	<ul> <li>Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials</li> </ul>
		Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Geno	toxicity in vivo	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Rat</li> <li>Application Route: Ingestion</li> <li>Method: OECD Test Guideline 474</li> <li>Result: negative</li> <li>Remarks: Based on data from similar materials</li> </ul>
Carci	nogenicity	
Not cl	assified based on av	ailable information.
<u>Comp</u>	oonents:	
	e mineral oil (petrol	-
Speci	es cation Route	: Rat : Ingestion
	sure time	: 24 Months
Resul		: negative
Neom	nycin, sulfate (salt):	
Speci	es	: Rat
Expos Resul	sure time t	: 2 Years : negative



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	-	<b>uctive toxicity</b> ed of damaging the u	nboi	n child.	
	Compo	nents:			
		nineral oil (petroleun on fertility	ו): י	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Skin contact
	Effects o	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	o-fetal development : Ingestion
	Benzylp	penicillin:			
		on fertility	:	Test Type: Fertility Species: Mouse Result: No effects	
				Test Type: Fertility Species: Rat Result: No effects	
				Test Type: Fertility Species: Rabbit Result: No effects	
	Effects o	on fetal development	:	Test Type: Develo Species: Mouse Result: No effects	opment on fetal development.
				Test Type: Develo Species: Rat Result: No effects	opment on fetal development.
				Test Type: Develo Species: Rabbit Result: No effects	opment on fetal development.
	-	<b>cin, sulfate (salt):</b> on fertility	:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 25 mg/kg body weight on fertility and early embryonic
	Effects o	on fetal development	:	Test Type: Embry Species: Rat Application Route	o-fetal development : Oral



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				icity.: NOAEL: 275 mg/kg body weight rse effects., No teratogenic effects.
			Test Type: Deve	lopment
			Species: Rat	
				e: Subcutaneous Foxicity: LOAEL: 6 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	Some evidence animal experime	of adverse effects on development, based o ents.
Alum	inum tristearate:			
Effect	s on fertility	:	Species: Rat Application Rout	Test Guideline 416
				l on data from similar materials
Effect	s on fetal development	:	Species: Rat	ity/early embryonic development
			Application Rout Result: negative	
				l on data from similar materials
Not cl STOT	-single exposure assified based on availa -repeated exposure		Remarks: Based	
Not cl <b>STOT</b> Not cl	assified based on availa -repeated exposure assified based on availa		Remarks: Based	
Not cl STOT Not cl <u>Com</u> t	assified based on availa -repeated exposure assified based on availa conents:		Remarks: Based	
Not cl STOT Not cl <u>Comp</u> Neom	assified based on availa -repeated exposure assified based on availa conents: nycin, sulfate (salt):		Remarks: Based information. information.	l on data from similar materials
Not cl STOT Not cl <u>Comp</u> Neom Targe	assified based on availa -repeated exposure assified based on availa conents:		Remarks: Based information. information. Kidney, inner ea	l on data from similar materials r
Not cl STOT Not cl <u>Comp</u> Neom Targe	assified based on availa <b>-repeated exposure</b> assified based on availa <u>conents:</u> <b>hycin, sulfate (salt):</b> t Organs ssment		Remarks: Based information. information. Kidney, inner ea May cause dama	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Neom Targe Asses Rema	assified based on availa <b>-repeated exposure</b> assified based on availa <u>conents:</u> <b>hycin, sulfate (salt):</b> t Organs ssment		Remarks: Based information. information. Kidney, inner ea May cause dama exposure.	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Neom Targe Asses Rema Rema	assified based on availa <b>-repeated exposure</b> lassified based on availa <b>conents:</b> <b>hycin, sulfate (salt):</b> et Organs assment arks		Remarks: Based information. information. Kidney, inner ea May cause dama exposure.	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Targe Asses Rema Rema Repe	assified based on availa <b>-repeated exposure</b> assified based on availa <u>conents:</u> <b>hycin, sulfate (salt):</b> at Organs assment arks <b>ated dose toxicity</b>	ible	Remarks: Based information. information. Kidney, inner ea May cause dama exposure.	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Targe Asses Rema Reper Comp White Speci	assified based on availa <b>-repeated exposure</b> assified based on availa <b>conents:</b> <b>hycin, sulfate (salt):</b> at Organs assment arks <b>ated dose toxicity</b> <b>conents:</b> <b>a mineral oil (petroleun</b> es	ible	Remarks: Based information. information. Kidney, inner ea May cause dama exposure. Based on humar Rat	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Targe Asses Rema Repe Comp Speci LOAE	assified based on availa <b>-repeated exposure</b> assified based on availa <b>conents:</b> <b>hycin, sulfate (salt):</b> at Organs assment arks <b>ated dose toxicity</b> <b>conents:</b> <b>e mineral oil (petroleun</b> es EL	ible	Remarks: Based information. information. Kidney, inner ea May cause dama exposure. Based on humar Rat 160 mg/kg	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Targe Asses Rema Repe Comp Speci LOAE Applic	assified based on availa <b>-repeated exposure</b> assified based on availa <b>conents:</b> <b>hycin, sulfate (salt):</b> at Organs assment arks <b>ated dose toxicity</b> <b>conents:</b> <b>a mineral oil (petroleun</b> es	ible	Remarks: Based information. information. Kidney, inner ea May cause dama exposure. Based on humar Rat	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Targe Asses Rema Rema Repe Comp Uhite Speci LOAE Applic Expos	assified based on availa <b>-repeated exposure</b> assified based on availa <b>conents:</b> <b>hycin, sulfate (salt):</b> <b>at Organs</b> ssment arks <b>ated dose toxicity</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b></b>	ible	Remarks: Based information. information. Kidney, inner ea May cause dama exposure. Based on humar Rat 160 mg/kg Ingestion 90 Days Rat	l on data from similar materials r age to organs through prolonged or repeated
Not cl STOT Not cl Comp Targe Asses Rema Repe Comp White Speci LOAE Speci LOAE	assified based on availa <b>-repeated exposure</b> assified based on availa <b>conents:</b> <b>hycin, sulfate (salt):</b> <b>at Organs</b> ssment arks <b>ated dose toxicity</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b>conents:</b> <b></b>	ible	Remarks: Based information. information. Kidney, inner ea May cause dama exposure. Based on human Rat 160 mg/kg Ingestion 90 Days	l on data from similar materials r age to organs through prolonged or repeated n experience.



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Meth	od	: OECD Test Gui	deline 412
Spec LOAI Appli Expo		: Mouse : 30 mg/kg : Subcutaneous : 14 d : Kidney	
Expo	EL	: Guinea pig : 50 mg/kg : 100 mg/kg : Intramuscular : 30 - 60 Weeks : ear	
	EL cation Route sure time	: Guinea pig : 10 mg/kg : Oral : 90 d : No significant ad	dverse effects were reported
		: Guinea pig : 100 mg/kg : Subcutaneous : 34 d	
Expo		: Dog : 24 mg/kg : Intramuscular : 30 d : Kidney	
Expo Targe	EL cation Route isure time et Organs otoms	: Rat : 25 mg/kg : oral (feed) : 84 Weeks : ear : hearing loss : mortality observ	ed
Expo		: Dog : 20 mg/kg : Subcutaneous : 90 d : Kidney	
Spec NOA Appli	EL cation Route sure time	: Rat : >= 5.000 mg/kg : Ingestion : 90 Days : Based on data f	rom similar materials



ersion 3	Revision Date: 30.09.2023	SDS Numbe 11119508-00	
Aspira	ation toxicity		
Not cla	assified based on av	ailable informatio	n.
Exper	ience with human e	xposure	
<u>Comp</u>	onents:		
Benzy	/lpenicillin:		
Inhala	tion		s: Allergic reactions, Abdominal pain, bron- n, skin rash
Neom	ycin, sulfate (salt):		
Skin c	ontact		s: Sensitization May irritate skin.
Eye co			: May cause eye irritation.
Ingest	ion	: Symptom Loss of b	s: Nausea, Vomiting, Diarrhea, tinnitus, hearing loss alance
	ion 12. ECOLOGICAL II	Loss of b	

#### Components:

White mineral oil (petroleum	ı):	
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l 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	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- icity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 1.000 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1.000 mg/l Exposure time: 21 d
Benzylpenicillin:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 hrs Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3,6 mg/l Exposure time: 48 hrs Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l



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		Exposure time Method: OEC	e: 72 hrs D Test Guideline 201
		mg/l Exposure time	docelis subcapitata (freshwater green alga)): 50 e: 72 hrs D Test Guideline 201
		Exposure time	reen algae): 0,74 mg/l e: 72 hrs D Test Guideline 201
		Exposure time	reen algae): 0,14 mg/l e: 72 hrs D Test Guideline 201
	ctor (Acute aquatic tox-	: 1	
icity) Toxic	Toxicity to microorganisms		
Neon	nycin, sulfate (salt):		
	ity to daphnia and other ic invertebrates	Exposure time	ia magna (Water flea)): > 72 mg/l e: 48 h D Test Guideline 202
		Exposure time	amysis): 39 mg/l e: 96 h PA OPPTS 850.1035
Toxic plants	ity to algae/aquatic	Exposure time	ena flos-aquae (cyanobacterium)): 0,00075 mg/l e: 72 h D Test Guideline 201
		Exposure time	aena flos-aquae (cyanobacterium)): 0,0003 mg/l a: 72 h D Test Guideline 201
		mg/l Exposure time	okirchneriella subcapitata (green algae)): 0,0099 e: 72 h D Test Guideline 201
		0,0022 mg/l Exposure time	lokirchneriella subcapitata (green algae)): e: 72 h D Test Guideline 201



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			1 000	
icity)		:	1.000	
toxicit		:	10	
Toxici	ty to microorganisms	:	EC50 (Natural microorganism): 107,6 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	
			Exposure time: 3 Test Type: Resp	
Alumi	inum tristearate:			
	oxicology Assessment			
Acute	aquatic toxicity	:	Toxic effects car	not be excluded
Chron	ic aquatic toxicity	:	Toxic effects car	nnot be excluded
Persis	stence and degradabili	ty		
Comp	oonents:			
White	e mineral oil (petroleum	ו):		
Biode	gradability	:	Result: Not read Biodegradation: Exposure time: 2	
Benzy	ylpenicillin:			
Biode	gradability	:	Result: Readily I Biodegradation: Exposure time: 2 Method: OECD	70,10 %
Neom	ycin, sulfate (salt):			
Biode	gradability	:	Result: rapidly d Biodegradation: Exposure time: Method: OECD	50 %
Bioac	cumulative potential			
Comp	oonents:			
Partiti	<b>nycin, sulfate (salt):</b> on coefficient: n- ol/water	:	log Pow: < -2	
	<b>ity in soil</b> ta available			



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	er adverse effects data available				
SECTION	N 13. DISPOSAL CONSI	DEF	RATIONS		
Disp	oosal methods				
Was	te from residues	:		of waste into sewer.	
Con	taminated packaging	:	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.		
SECTION	N 14. TRANSPORT INFO	RM	ATION		
Intel	rnational Regulations				
-	RTDG				
-	number ber shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID, ate (salt), Benzylpenicillin)	
Clas	S	:	9		
	king group	:	III		
Labe		:	9		
Envi	ironmentally hazardous	÷	yes		
	A-DGR				
	ID No.	:	UN 3082	La suda e a laterra Partita e a	
Prop	per shipping name	:	(Neomycin, sulfa	hazardous substance, liquid, n.o.s. ate (salt), Benzylpenicillin)	
Clas		:	9		
	king group	:			
Labe		÷	Miscellaneous		
aircr		•	964		
	king instruction (passen- aircraft)	:	964		
	ronmentally hazardous	:	yes		

Environmentally hazaraeae	•	<i>y</i> cc
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Neomycin, sulfate (salt), Benzylpenicillin)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine 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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#### 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/legisl mixture	ation specific for the substance of	r
Argentina. Carcinogenic Substances and Agents Registry.	: Not applicable	
Control of precursors and essential chemicals for the	: 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**

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#### Further information

preparation of drugs.

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

#### Full text of other abbreviations

ACGIH AR OEL		USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA AR OEL / CMP AR OEL / CMP - CPT	:	8-hour, time-weighted average TLV (Threshold Limit Value) STEL (Short Term Limit Value)

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



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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.

AR / Z8