

# **Neomycin Formulation**

Version 2.1	Revision Date: 30.09.2023	-	S Number: 04865-00007	Date of last issue: 04.04.2023 Date of first issue: 02.09.2021				
SECTION	SECTION 1. IDENTIFICATION							
Produ	uct name	:	Neomycin Form	ulation				
Manu	ufacturer or supplier's	s deta	ils					
Com	bany	:	MSD					
Addre	ess	:		, 6th floor, Ciudad Autonoma rgentina C1013AAP				
Telep	phone	:	908-740-4000					
Emer	gency telephone	:	1-908-423-6000					
E-ma	il address	:	EHSDATASTEV	VARD@msd.com				
Reco	mmended use of the	chem	ical and restricti	ons on use				
	mmended use rictions on use	:	Veterinary produ Not applicable	uct				

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

GHS Classification Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure	:	Category 2 (Kidney, inner ear)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements		H317 May cause an allergic skin reaction.



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		H410 Very tox	ic to aquatic life with long lasting effects.
Preca	utionary Statements	P202 Do not h and understoo P260 Do not b P272 Contami the workplace. P273 Avoid rel	reathe dust. nated work clothing should not be allowed out of lease to the environment. otective gloves/ protective clothing/ eye protec-
		P308 + P313 I attention. P333 + P313 I vice/ attention.	Fake off contaminated clothing and wash it before
		<b>Storage:</b> P405 Store loc	sked up.
		Disposal:	of contents/ container to an approved waste

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : M	<i>A</i> ixture
-------------------------	-----------------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Neomycin, sulfate (salt)	1405-10-3	>= 50 -< 70

### SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water.



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	ase of eye contact vallowed	Get medical Wash clothin Thoroughly of If in eyes, rin Get medical If swallowed Get medical	ig before reuse. clean shoes before reuse. se well with water. attention if irritation develops and persists. , DO NOT induce vomiting.		
Most important symptoms and effects, both acute and delayed		: May cause a Suspected o May cause d exposure.	May cause an allergic skin reaction. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Contact with dust can cause mechanical irritation or drying o		
	tection of first-aiders es to physician	: First Aid resp and use the when the pot	with the eyes can lead to mechanical irritation. bonders should pay attention to self-protection, recommended personal protective equipment tential for exposure exists (see section 8). bomatically 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 potential dust explosion hazard. 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 so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water.



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	ds and materials for nment and cleaning up	<ul> <li>cannot be container container for dispersal of with compressed Dust deposits share surfaces, as these released into the Local or national disposal of this n employed in the determine which Sections 13 and</li> </ul>	uum up spillage and collect in suitable bosal. of dust in the air (i.e., clearing dust surfaces

### 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 and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	:	Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe dust. 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 Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Neomycin, sulfate (salt)	1405-10-3	TWA	1 mg/m3 (OEB 1)	Internal
	Further information: DSEN, OTO			
		Wipe limit	0.1 mg/100 cm <sup>2</sup>	Internal



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E	Engineering measures		Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.				
P	ersonal protective	equipment					
	Respiratory protection		osure assess	exhaust ventilation is not available or ment demonstrates exposures outside the udelines, use respiratory protection.			
	and protection Material	: Che	: Chemical-resistant gloves				
E	Eye protection		e work enviro ts or aerosols ar a faceshiel	ses with side shields or goggles. onment or activity involves dusty conditions, , wear the appropriate goggles. d or other full face protection if there is a et contact to the face with dusts, mists, or			
	Skin and body protection Hygiene measures		cposure to che flushing syste king place. en using do n ntaminated wo kplace. sh contamina e effective ope ineering cont ropriate dego	laboratory coat. emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ork clothing should not be allowed out of the ted clothing before re-use. eration of a facility should include review of rols, proper personal protective equipment, whing and decontamination procedures, e monitoring, medical surveillance and the tive controls.			

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	White to light yellow
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable



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	Flamm	ability (solid, gas)	:	May form combu ssing, handling o	stible dust concentrations in air during proce- r other means.
	Flamm	ability (liquids)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	No data available	9
	Partitio octano	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
		ng properties	:		r mixture is not classified as oxidizing.
		ılar weight	:	No data available	
	Particle	e size	:	No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	<ul> <li>Not classified as a reactivity hazard.</li> <li>Stable under normal conditions.</li> <li>May form combustible dust concentrations in air durir processing, handling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul>	ng
Conditions to avoid	Heat, flames and sparks. Avoid dust formation.	
Incompatible materials Hazardous decomposition	<ul> <li>Oxidizing agents</li> <li>No hazardous decomposition products are known.</li> </ul>	



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produ	icts			
ECTION	11. TOXICOLOGICAL I	INF	ORMATION	
Inforr expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
Acute	e toxicity			
Not c	lassified based on availa	able	information.	
Prod	<u>uct:</u>			
Acute	e oral toxicity	:	Acute toxicity es Method: Calcula	stimate: > 5.000 mg/kg ation method
Com	ponents:			
Neon	nycin, sulfate (salt):			
Acute	e oral toxicity	:	LD50 (Mouse):	2.880 mg/kg
			LD50 (Rat): 2.7	50 mg/kg
	e toxicity (other routes of nistration)	:	LD50 (Rat): 633 Application Rou	s mg/kg te: Subcutaneous
			LD50 (Mouse): Application Rou	116 mg/kg te: Intraperitoneal
			LD50 (Mouse): Application Rou	
			LD50 (Mouse): Application Rou	275 mg/kg te: Subcutaneous
	corrosion/irritation lassified based on availa	able	information.	
	ponents:			
	nycin, sulfate (salt):			
Speed			Dobbit	

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



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Resp	iratory or skin sensi	tization		
-	sensitization cause an allergic skin	reaction		
-	iratory sensitization lassified based on ava	ailable in	formation.	
Com	oonents:			
		: F	Dermal Iumans positive	
	<b>cell mutagenicity</b> lassified based on ava	ailable in	formation.	
Com	oonents:			
	nycin, sulfate (salt): toxicity in vitro		est Type: Bact Result: negative	erial reverse mutation assay (AMES)
		٦		tro mammalian cell gene mutation test ninese hamster ovary cells e
		٦		omosomal aberration uman lymphocytes
			est Type: in vit Result: negative	tro micronucleus test
Geno	toxicity in vivo	8 () 	est Type: Cyto Species: Mouse Cell type: Bone Application Rou Result: negative	e marrow te: Intravenous injection
	<b>nogenicity</b> lassified based on ava	ailable in	formation.	

### Components:

## Neomycin, sulfate (salt):

Species	:	Rat
Exposure time	:	2 Years
Result	:	negative

### Reproductive toxicity

Suspected of damaging the unborn child.



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Com	ponents:			
Noor	nycin, sulfate (salt):			
	ts on fertility	:	Species: Rat Application Rout General Toxicity	Parent: NOAEL: 25 mg/kg body weight ts on fertility and early embryonic
Effec	ts on fetal development	:	Species: Rat Application Rout Embryo-fetal tox Result: No adve	icity.: NOAEL: 275 mg/kg body weight rse effects., No teratogenic effects.
				elopment te: Subcutaneous Foxicity: LOAEL: 6 mg/kg body weight
Repr sessi	oductive toxicity - As- ment	:	Some evidence animal experime	of adverse effects on development, based ents.
STO	T-single exposure			
	• •	ahle	information	
Not c	lassified based on availa	able	information.	
Not c STO	lassified based on availa			prough prolonged or repeated exposure
Not c <b>STO</b> May	lassified based on availa			nrough prolonged or repeated exposure.
Not o STO May <u>Com</u>	classified based on availa <b>F-repeated exposure</b> cause damage to organs ponents:			nrough prolonged or repeated exposure.
Not c STO <sup>-</sup> May Com Neor Targe	classified based on availa <b>F-repeated exposure</b> cause damage to organs		dney, inner ear) tl Kidney, inner ea May cause dama	r
Not c STO <sup>-</sup> May <u>Com</u> Neor Targe	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment		dney, inner ear) tl Kidney, inner ea	r age to organs through prolonged or repeat
Not c STO May Com Neor Targe Asse Rema	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment		dney, inner ear) tl Kidney, inner ea May cause dama exposure.	r age to organs through prolonged or repeat
Not of STO May Com Neor Targe Asse Rema Repe	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks		dney, inner ear) tl Kidney, inner ea May cause dama exposure.	r age to organs through prolonged or repeat
Not of STO May Com Targe Asse Rema Repe	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b>		dney, inner ear) tl Kidney, inner ea May cause dama exposure.	r age to organs through prolonged or repeat
Not of STO May Com Targe Asse Rema Repe	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b>		dney, inner ear) tl Kidney, inner ea May cause dama exposure.	r age to organs through prolonged or repeat
Not of STO May Com Neor Targo Asse Rema Rema Repe Com Spec LOAI	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg	r age to organs through prolonged or repeat
Not of STO May Com Neor Targo Asse Rema Rema Repe Com Spec LOAR Appli	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg Subcutaneous	r age to organs through prolonged or repeat
Not of STO May Com Neor Targo Asse Rema Rema Repe Com Spec LOAN Appli Expo	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route sure time		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg Subcutaneous 14 d	r age to organs through prolonged or repeat
Not of STO May Com Neor Targo Asse Rema Rema Repe Com Spec LOAN Appli Expo	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg Subcutaneous	r age to organs through prolonged or repeat
Not of STO May Com Neor Targo Asse Rema Rema Repe Com Spec LOAN Appli Expo	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route sure time et Organs		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg Subcutaneous 14 d	r age to organs through prolonged or repeat
Not c STO May Com Targe Asse Rema Rema Rema Repa Com Neor Spec LOAR Appli Expo Targe Spec NOA	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route sure time et Organs ies EL		dney, inner ear) th Kidney, inner ea May cause dam exposure. Based on human Mouse 30 mg/kg Subcutaneous 14 d Kidney	r age to organs through prolonged or repeat
Not c STO May Com Targe Asse Rema Repe Com Neor Spec LOAI Appli Expo Targe Spec NOA	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route sure time et Organs ies EL EL EL		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg 100 mg/kg	r age to organs through prolonged or repeat
Not c STO May Com Targe Asse Rema Repe Com Neor Spec LOAR Appli Expo Targe Spec NOA LOAR	elassified based on availa <b>T-repeated exposure</b> cause damage to organs <b>ponents:</b> <b>nycin, sulfate (salt):</b> et Organs ssment arks <b>eated dose toxicity</b> <b>ponents:</b> <b>nycin, sulfate (salt):</b> ies EL cation Route sure time et Organs ies EL		dney, inner ear) th Kidney, inner ea May cause dama exposure. Based on human Mouse 30 mg/kg Subcutaneous 14 d Kidney Guinea pig 50 mg/kg	r age to organs through prolonged or repeate



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Speci NOAE Applic Expos Rema Speci LOAE Applic	EL cation Route sure time arks es EL cation Route	: Guinea pig : 100 mg/kg : Subcutane	ant adverse effects were reported
Speci LOAE Applic Expos		: 34 d : Dog : 24 mg/kg : Intramuscu : 30 d : Kidney	ılar
Expo	EL cation Route sure time et Organs otoms	: Rat : 25 mg/kg : oral (feed) : 84 Weeks : ear : hearing los : mortality ob	
Expos Targe		: Dog : 20 mg/kg : Subcutaned : 90 d : Kidney	ous

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

### **Components:**

### Neomycin, sulfate (salt):

Skin contact	:	Symptoms: Sensitization Remarks: May irritate skin.
Eye contact Ingestion		Remarks: May cause eye irritation. Symptoms: Nausea, Vomiting, Diarrhea, tinnitus, hearing loss, Loss of balance

### **SECTION 12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### **Components:**

### Neomycin, sulfate (salt):

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 72 mg/l



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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		
Toxicity to algae/aquatic plants		:	EC50 (Anabaena Exposure time: 72 Method: OECD T		
			NOEC (Anabaena flos-aquae (cyanobacterium)): 0,0003 Exposure time: 72 h Method: OECD Test Guideline 201		
			EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T		
			NOEC (Pseudokin 0,0022 mg/l Exposure time: 72 Method: OECD Te		
M-Factor (Acute aquatic tox- icity) M-Factor (Chronic aquatic toxicity) Toxicity to microorganisms		:	1.000		
		:	10		
		:	EC50 (Natural mi Exposure time: 3 Test Type: Respir Method: OECD T	ration inhibition	
			Exposure time: 3 Test Type: Respir		
Persist	tence and degradabil	ity			
Compo	onents:				
<b>Neomycin, sulfate (salt):</b> Biodegradability		:	<ul> <li>Result: rapidly degradable</li> <li>Biodegradation: 50 %</li> <li>Exposure time: 1,2 d</li> <li>Method: OECD Test Guideline 314</li> </ul>		
Bioacc	umulative potential				
<u>Compc</u>	onents:				
Neomy	/cin, sulfate (salt):				



pefficient: n- ter	:	log Pow: < -2	
<b>Mobility in soil</b> No data available			
<b>Other adverse effects</b> No data available			
	soil ailable erse effects ailable	soil ailable erse effects ailable	ter soil ailable erse effects

•	
Waste from residues	: Do not dispose of waste into sewer.
	Dispose of in accordance with local regulations.
Contaminated packaging	: Empty containers should be taken to an approved waste
	handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

### SECTION 14. TRANSPORT INFORMATION

### International Regulations

**Disposal methods** 

	_	
UN number	:	
Proper shipping name	:	
		N.O.S.
		(Neomycin, sulfate (salt))
Class	:	9
Packing group	÷	
	÷	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Neomycin, sulfate (salt))
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	956
aircraft)		
Packing instruction (passen-	:	956
ger aircraft)		
Environmentally hazardous	:	yes
-		
IMDG-Code UN number		UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
Proper snipping name	•	N.O.S.
		(Neomycin, sulfate (salt))
Class		9
	:	9 
Packing group Labels	:	9
EmS Code	÷	9 F-A, S-F
	:	•
Marine pollutant	·	yes



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### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### 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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable	
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable	

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

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

### **SECTION 16. OTHER INFORMATION**

Revision Date	: 30.09.2023	
Date format	: dd.mm.yyyy	/

### Further information

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

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 Chemi-



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cal Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

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