

# **Guanidine Hydrochloride Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
4.1	30.09.2023	438988-00020	Date of first issue: 06.01.2016

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Guanidine Hydrochloride Formulation Manufacturer or supplier's details

manufacturer of Supplier 5	ucit			
Company name of supplier	:	MSD		
Address	:	126 E. Lincoln Avenue		
		Rahway, New Jersey U.S.A. 07065		
Telephone	:	908-740-4000		
Emergency telephone	:	1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the c	Recommended use of the chemical and restrictions on use			

Recommended use	:	Pharmaceutical
Restrictions on use	:	Not applicable

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

GHS Classification Acute toxicity (Oral)	:	Category 4
Acute toxicity (Inhalation)	:	Category 5
Skin corrosion/irritation	:	Category 2
Serious eye damage/eye irritation	:	Category 2A
Specific target organ toxicity - repeated exposure	:	Category 1 (Nervous system, Bone marrow, Kidney)
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H302 Harmful if swallowed.</li> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H333 May be harmful if inhaled.</li> <li>H372 Causes damage to organs (Nervous system, Bone marrow, Kidney) through prolonged or repeated exposure.</li> </ul>
Precautionary Statements	:	<b>Prevention:</b> P260 Do not breathe dust. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ eye protection/ face protection.



Version 4.1	Revision Date: 30.09.2023	SDS Number: 438988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
		CENTER or do P302 + P352 IF P304 + P312 IF physician if you P305 + P351 + for several minu to do. Continue P314 Get medi P332 + P313 If tion. P337 + P313 If tion.	P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and easy
		<b>Disposal:</b> P501 Dispose o posal plant.	of contents/ container to an approved waste dis-

### Other hazards

May form explosive dust-air mixture during processing, handling or other means.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
	•	winkture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 50 -< 70
Guanidinium chloride	50-01-1	>= 30 -< 50
Magnesium stearate	557-04-0	>= 1 -< 5

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

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> </ul>
In case of eye contact	<ul> <li>Thoroughly clean shoes before reuse.</li> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention.</li> </ul>



Vers 4.1	sion	Revision Date: 30.09.2023		98 Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
	If swall	owed	:	so by medical per Get medical atten	
		nportant symptoms ects, both acute and d	:	Never give anythi Harmful if swallow Causes skin irrita Causes serious e May be harmful if Causes damage t	ng by mouth to an unconscious person. ved. tion. ye irritation.
		ion of first-aiders o physician	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8). cally and supportively.
SEC	TION 5	. FIRE-FIGHTING ME	ASU	IRES	
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
		ble extinguishing	:	None known.	
	media Specific fighting	c hazards during fire	:	concentrations, and potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. bustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Chlorine compour Metal oxides	
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	protective equipment fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.
SEC	TION 6	. ACCIDENTAL RELE	ASI	EMEASURES	
	tive equ	al precautions, protec- uipment and emer- procedures	:	Follow safe handl	tective equipment. ing advice (see section 7) and personal ient recommendations (see section 8).
	Enviror	mental precautions	:	Avoid release to t Prevent further lease	he environment. akage or spillage if safe to do so.

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.



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Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
4.1		438988-00020	Date of first issue: 06.01.2016
	ds and materials for nment and cleaning up	container for disp Avoid dispersal of with compressed Dust deposits sh surfaces, as thes released into the Local or national disposal of this m employed in the determine which Sections 13 and	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. Do not get in eyes. Wash skin thoroughly after handling. 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. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures :	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.
Conditions for safe storage :	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid :	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters



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sion	Revision Date: 30.09.2023	SDS Number: 438988-00020		st issue: 04.04.2023 st issue: 06.01.2016		
Compor	nents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Cellulos	Se .	9004-34-6	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010 STPS-20	
			TWA	10 mg/m <sup>3</sup>	ACGIH	
Guanidi	nium chloride	50-01-1	TWA	600 µg/m3 (OEB 2)	Internal	
Magnes	sium stearate	557-04-0	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010 STPS-20	
			TWA (Inhalable particulate matter)	10 mg/m³	ACGIH	
			TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH	
Dest	-1	dust collecto designed in work area (i	ors, vessels, and a manner to prev	stems (such as exhat processing equipmer vent the escape of du akage from the equip	nt) are st into the	
	al protective equip tory protection	: If adequate	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the			
	r type rotection		ed guidelines, us	e respiratory protection		
Mate		: Chemical-re	sistant gloves			
Rem	arks	on the conce time is not d For special a resistance to gloves with	entration specific etermined for the applications, we o chemicals of th	nds against chemicals to place of work. Bre product. Change glo recommend clarifying e aforementioned pro acturer. Wash hands l kday	akthrough oves often! the tective	
Eye pro	tection		lowing personal	protective equipment		
Skin an	d body protection	: Select appro resistance d potential. Skin contact	opriate protective ata and an asses	clothing based on ch ssment of the local ex d by using impervious	posure	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: powder



Vers 4.1	sion	Revision Date: 30.09.2023		S Number: 988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
	Color		:	No data available	)
	Odor		:	No data available	)
	Odor T	hreshold	:	No data available	
	рН		:	No data available	)
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	ooint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	)
	Density	,	:	No data available	)
	Solubili Wat	ty(ies) er solubility	:	No data available	)
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	2



Versi 4.1	Version Revision Date: 4.1 30.09.2023			S Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016			
F	Particle size		:	: No data available				
SECT	TION 10	0. STABILITY AND RE	EAC	TIVITY				
( F	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 explosive dust-air mixture during processing, handling or other means.</li> <li>Can react with strong oxidizing agents.</li> </ul>				
(	Conditio	ons to avoid	:	Heat, flames and Avoid dust forma				
ŀ	Incompatible materials Hazardous decomposition products		:	Oxidizing agents				
SECT		1. TOXICOLOGICAL I	NFC	ORMATION				
         	Inhalatio Skin co Ingestic Eye cor <b>Acute t</b> Harmfu	ntact on		exposure				
Ē	Produc	: <u>t:</u>						
ļ	Acute o	ral toxicity	:	Acute toxicity esti Method: Calculati	mate: 1,330 mg/kg on method			
ļ	Acute ir	nhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist			
<u>(</u>	Compo	onents:						
	<b>Cellulo</b> Acute o	<b>se:</b> ral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg			
ļ	Acute ir	nhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h			
ļ	Acute d	ermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg			
		l <b>inium chloride:</b> ral toxicity	:	LD50 (Rat): 474.6	6 mg/kg			



Vers 4.1	ion	Revision Date: 30.09.2023	-	98 Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016			
				LD50 (Mouse): 57	71 mg/kg			
	Acute inhalation toxicity		:	ELC50 (Rat): 3.181 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403				
	Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute dermal			
	Magne	esium stearate:						
	Acute	oral toxicity	:	icity				
	Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Remarks: Based o	2,000 mg/kg on data from similar materials			
		orrosion/irritation s skin irritation.						
	<u>Comp</u>	onents:						
	Guani	dinium chloride:						
	Specie Result		:	Rabbit Skin irritation				
	Magne	sium stearate:						
	Specie		:	Rabbit				
	Result Remar		:	No skin irritation Based on data fro	m similar materials			
		s eye damage/eye irriss eye damage/eye irriss	tati	on				
	Comp	onents:						
	Guani	dinium chloride:						
	Result Remar	ks	:		reversing within 21 days I or regional regulation.			
	Magne	esium stearate:						
	Specie		:	Rabbit				
	Result Remar		:	No eye irritation Based on data fro	m similar materials			



rsion	Revision Date: 30.09.2023	SDS Number: 438988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016				
Resp	iratory or skin sensi	itization					
Skin sensitization							
Not cl	Not classified based on available information.						
Resp	iratory sensitization	1					
-	assified based on ava						
Com	oonents:						
Guan	idinium chloride:						
Test		: Buehler Test					
	es of exposure	: Skin contact					
Speci		: Guinea pig					
Resul	It	: negative					
Magn	esium stearate:						
Test 7	Гуре	: Maximization 1	est				
	es of exposure	: Skin contact					
Speci		: Guinea pig					
Metho		: OECD Test Gu	uideline 406				
Resul		: negative					
	arks	<ul> <li>Doood on data</li> </ul>	from similar materials				
Not cl	a <b>cell mutagenicity</b> lassified based on ava						
Germ Not cl <u>Comp</u> Cellu	a <b>cell mutagenicity</b> lassified based on ava conents:	ailable information. : Test Type: Bac	cterial reverse mutation assay (AMES)				
Germ Not cl <u>Comp</u> Cellu	a <b>cell mutagenicity</b> lassified based on ava <u>ponents:</u> lose:	ailable information. : Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) re				
Germ Not cl <u>Comp</u> Cellu	a <b>cell mutagenicity</b> lassified based on ava <u>ponents:</u> lose:	ailable information. : Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) re ritro mammalian cell gene mutation test				
Germ Not cl <u>Com</u> Cellu Geno	a <b>cell mutagenicity</b> lassified based on ava <u>ponents:</u> lose:	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ	cterial reverse mutation assay (AMES) re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in vivo say) re ute: Ingestion				
Germ Not cl Com Cellu Geno	a <b>cell mutagenicity</b> lassified based on ava <u>ponents:</u> lose: toxicity in vitro	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ : Test Type: Mac cytogenetic as Species: Mous Application Ro	cterial reverse mutation assay (AMES) re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in vivo say) re ute: Ingestion				
Germ Not cl Comp Cellu Geno Geno	a cell mutagenicity lassified based on ava <u>ponents:</u> lose: toxicity in vitro	ailable information. : Test Type: Bac Result: negativ Test Type: In v Result: negativ : Test Type: Mac cytogenetic ast Species: Mous Application Ro Result: negativ : Test Type: Bac	cterial reverse mutation assay (AMES) re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in vivo say) e ute: Ingestion re cterial reverse mutation assay (AMES) o Test Guideline 471				
Germ Not cl Comp Cellu Geno Geno	<b>i cell mutagenicity</b> lassified based on ava <u>conents:</u> <b>lose:</b> toxicity in vitro toxicity in vivo	<ul> <li>ailable information.</li> <li>Test Type: Bac Result: negativ Test Type: In v Result: negativ</li> <li>Test Type: Mai cytogenetic as: Species: Mous Application Ro Result: negativ</li> <li>Test Type: Bac Method: OECE Result: negativ</li> </ul>	cterial reverse mutation assay (AMES) re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in vivo say) e ute: Ingestion re cterial reverse mutation assay (AMES) 0 Test Guideline 471 re romosome aberration test in vitro				
Germ Not cl Com Cellu Geno Geno	<b>i cell mutagenicity</b> lassified based on ava <u>conents:</u> <b>lose:</b> toxicity in vitro toxicity in vivo	<ul> <li>ailable information.</li> <li>Test Type: Bac Result: negativ Test Type: In v Result: negativ</li> <li>Test Type: Mac cytogenetic as: Species: Mous Application Ro Result: negativ</li> <li>Test Type: Bac Method: OECD Result: negativ</li> </ul>	cterial reverse mutation assay (AMES) re ritro mammalian cell gene mutation test re mmalian erythrocyte micronucleus test (in vivo say) e ute: Ingestion re cterial reverse mutation assay (AMES) 0 Test Guideline 471 re romosome aberration test in vitro				



ersion 1	Revision Date: 30.09.2023	SDS Number: 438988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
		Remarks: Based	d on data from similar materials
		Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
		Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
	nogenicity assified based on availa	able information.	
	onents:		
Cellul	ose:		
	ation Route ure time	: Rat : Ingestion : 72 weeks : negative	
-	ductive toxicity assified based on availa	able information.	
Comp	onents:		
Cellul	ose:		
Effects	s on fertility	: Test Type: One- Species: Rat Application Rou Result: negative	
Effects	s on fetal development	: Test Type: Ferti Species: Rat Application Rou Result: negative	
Guani	dinium chloride:		
Effects	s on fetal development	Species: Rat Application Rou	Test Guideline 414
Magn	esium stearate:		
-	s on fertility	reproduction/de Species: Rat Application Rou Method: OECD Result: negative	Test Guideline 422
		10 / 16	



ersion 1	Revision Date: 30.09.2023		OS Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Effects	on fetal development	:	Species: Rat Application Rout Result: negative	ryo-fetal development e: Ingestion I on data from similar materials
	single exposure assified based on availa	ıble	information.	
STOT-	repeated exposure			
	s damage to organs (N	ervo	ous system, Bone	marrow, Kidney) through prolonged or repe
Compo	onents:			
Guanio	dinium chloride:			
Routes	s of exposure Organs	:		, Kidney, Bone marrow to organs through prolonged or repeated
Repea	ted dose toxicity			
Compo	onents:			
Cellulo	ose:			
		:	Rat >= 9,000 mg/kg Ingestion 90 Days	
Guanio	dinium chloride:			
Specie NOAEI Applica	es L ation Route ure time	:	Rat 100 mg/kg Ingestion 90 Days OECD Test Guid	deline 408
Magne	esium stearate:			
		:	Rat > 100 mg/kg Ingestion 90 Days	om similar materials



ersion 1	Revision Date: 30.09.2023		0S Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
Expe	rience with human exp	osi	ire	
Comp	oonents:			
Guan	idinium chloride:			
Ingest	tion	:	Symptoms: ting	ling, numbness, anorexia, Diarrhea
ECTION	12. ECOLOGICAL INFO	ORI	IATION	
Ecoto	oxicity			
Comp	oonents:			
Cellu	lose:			
Toxici	ty to fish	:	Exposure time:	atipes (Japanese medaka)): > 100 mg/l 48 h d on data from similar materials
Guan	idinium chloride:			
Toxici	ty to fish	:	LC50 (Leuciscu Exposure time:	s idus (Golden orfe)): 1,758 mg/l 48 h
	ty to daphnia and other ic invertebrates	:	Exposure time:	magna (Water flea)): 70.2 mg/l 48 h d on data from similar materials
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time:	kirchneriella subcapitata (green algae)): 11. 72 h ve 67/548/EEC, Annex V, C.3.
			mg/l Exposure time:	kirchneriella subcapitata (green algae)): 6.3 72 h ve 67/548/EEC, Annex V, C.3.
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time:	ales promelas (fathead minnow)): 181 mg/l 35 d d on data from similar materials
	ty to daphnia and other ic invertebrates (Chron- city)		Exposure time:	a magna (Water flea)): 2.9 mg/l 21 d d on data from similar materials
Toxici	ty to microorganisms	:	EC10 (Pseudor Exposure time:	nonas putida): 7,125 mg/l 18 h
Magn	esium stearate:			
-	ity to fish	:	Exposure time: Method: DIN 38	



Vers 4.1	sion	Revision Date: 30.09.2023		98 Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016
		<i>i</i> to daphnia and other invertebrates	:	Exposure time: 47 Test substance: V Method: Directive	Vater Accommodated Fraction 67/548/EEC, Annex V, C.2. on data from similar materials
	Toxicity plants	∕ to algae/aquatic	:	mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction est Guideline 201 on data from similar materials
				mg/l Exposure time: 72 Test substance: V Method: OECD Te	Vater Accommodated Fraction
	Toxicity	/ to microorganisms	:	Exposure time: 16 Test substance: V	nas putida): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
	Persist	tence and degradabil	ity		
	Compo	onents:			
	<b>Cellulo</b> Biodeg	<b>rse:</b> radability	:	Result: Readily bi	odegradable.
		<b>linium chloride:</b> radability	:	Result: Not readily Biodegradation: 0 Exposure time: 56 Method: OECD Te	)%
	-	<b>sium stearate:</b> radability	:	Result: Not biode Remarks: Based o	gradable on data from similar materials
	Bioacc	umulative potential			
	Compo	onents:			
		<b>linium chloride:</b> n coefficient: n- /water	:	log Pow: < -1.7	
	Magne	sium stearate:			



Version 4.1	Revision Date: 30.09.2023	SDS Number: 438988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016	
	ion coefficient: n- ol/water	: log Pow: > 4		
Mobi	lity in soil			
No da	ata available			
Other	r adverse effects			
No da	ata available			
SECTION	13. DISPOSAL CON	SIDERATIONS		
Dispo	osal methods			

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

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

### Domestic regulation

**NOM-002-SCT** Not regulated as a dangerous good

### Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

AICS	:	not determined

DSL : not determined



Version 4.1	Revision Date: 30.09.2023		DS Number: 8988-00020	Date of last issue: 04.04.2023 Date of first issue: 06.01.2016				
IECSC		:	: not determined					
SECTIO	ON 16. OTHER INFORMA	TION	1					
	vision Date te format	:	30.09.2023 dd.mm.yyyy					
Fu	Il text of other abbreviati	ons						
	ACGIH NOM-010-STPS-2014		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits					
ACGIH / TWA NOM-010-STPS-2014 / VLE- PPT		:	trol - Appendix 1 Occupational Exposure Limits 8-hour, time-weighted average Time weighted average 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 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

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/





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The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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