

Version 3.3	Revision Date: 10.10.2020		DS Number: )95094-00008	Date of last issue: 13.09.2019 Date of first issue: 23.10.2017
SECTIO	N 1. PRODUCT AND CC	OMP.		TION
Proc	duct name	:	Desloratadine / F	seudoephedrine Formulation
Man	ufacturer or supplier's	det	ails	
Add		:	Xaltocan - Xochir	eptiembre No. 301 nilco Mexico 16090
Eme	phone ergency telephone ail address	-	52 55 57284444 215-631-6999 EHSSTEWARD@	⊉organon.com
Rec	ommended use of the o	cher	nical and restricti	ons on use
Rec	ommended use	:	Pharmaceutical	
SECTIO	N 2. HAZARDS IDENTIF	ICA	TION	

### GHS Classification

Acute toxicity (Oral)	:	Category 5
Acute toxicity (Inhalation)	:	Category 5
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 1 (Central nervous system)
Specific target organ toxicity - repeated exposure (Inhalation)	:	Category 1 (Cardio-vascular system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Respiratory Tract)
GHS label elements Hazard pictograms	:	

		•
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H303 + H333 May be harmful if swallowed or if inhaled.</li> <li>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.</li> <li>H372 Causes damage to organs (Cardio-vascular system) through prolonged or repeated exposure if inhaled.</li> <li>H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.</li> </ul>
Precautionary Statements	:	Prevention:



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		P202 Do not har and understood. P260 Do not bre P264 Wash skin P270 Do not eat	ecial instructions before use. ndle until all safety precautions have been read eathe dust/ fume/ gas/ mist/ vapors/ spray. n thoroughly after handling. t, drink or smoke when using this product. ective gloves/ protective clothing/ eye protection/
		physician if you	INHALED: Call a POISON CENTER or doctor/ feel unwell. ISON CENTER or doctor/ physician if you feel
		<b>Storage:</b> P405 Store lock	ed up.
		Disposal:	
		P501 Dispose o posal plant.	f contents/ container to an approved waste dis-
Other	hazards		

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 30 -< 50
Bis[[S-(R*,R*)]-(β-hydroxy-α-	7460-12-0	>= 20 -< 30
methylphenethyl)methylammonium] sulphate		
Disodium EDTA, dihydrate	6381-92-6	>= 1 -< 5
Citric acid	77-92-9	>= 1 -< 5
Desloratadine	100643-71-8	>= 0.1 -< 1

### **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. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution.



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lf swal	lowed	: If swallowed, I Get medical at Rinse mouth tl	noroughly with water.
	mportant symptoms fects, both acute and ed	Suspected of o unborn child. Causes damag exposure if sw	ge to organs through prolonged or repeated
			mage to organs through prolonged or repeated
Protec	tion of first-aiders	and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Notes	to physician		natically 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 Nitrogen oxides (NOx) 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

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. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal.



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		disposal of this employed in th determine whic Sections 13 ar	al regulations may apply to releases and material, as well as those materials and items e cleanup of releases. You will need to ch regulations are applicable. Ind 15 of this SDS provide information regarding mational requirements.
SECTION	7. HANDLING AND ST	TORAGE	
Techr	nical measures		ng measures under EXPOSURE ERSONAL PROTECTION section.
Local/	Total ventilation		adequate ventilation.
Advic	e on safe handling	: Do not breather Do not swallow Avoid contact Avoid prolonge Wash skin tho Handle in acco practice, based assessment Do not eat, drin Take care to p environment.	e dust, fume, gas, mist, vapors or spray. with eyes. ed or repeated contact with skin. roughly after handling. ordance with good industrial hygiene and safety d on the results of the workplace exposure hk or smoke when using this product. revent spills, waste and minimize release to the
Hygie	ne measures	flushing syster place. When using do Wash contami The effective o engineering co appropriate de industrial hygie	chemical is likely during typical use, provide eye ns and safety showers close to the working o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of introls, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.
Condi	tions for safe storage	: Keep in proper	ly labeled containers. Jance with the particular national regulations.
Mater	ials to avoid		ith the following product types: g agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	VLE-PPT	10 mg/m <sup>3</sup>	NOM-010- STPS-2014
		TWA	10 mg/m <sup>3</sup>	ACGIH
Bis[[S-(R*,R*)]-(β-hydroxy-α- methylphenethyl)methylammo	7460-12-0	TWA	50 µg/m3 (OEB 3)	Internal

### Ingredients with workplace control parameters



rsion B	Revision Date: 10.10.2020		S Number: 95094-00008		st issue: 13.09.2019 st issue: 23.10.2017	
nium]	sulphate	I			I	I
mannj	Suprato			Wipe limit	500 µg/100 cm <sup>2</sup>	Internal
Deslo	oratadine		100643-71-8	TWA	20 µg/m3 (OEB 3)	Internal
				Wipe limit	200 µg/100 cm <sup>2</sup>	Internal
Engir	neering measures	:	design and op protect produc Containment t are required to	erated in accor echnologies su control at sou to uncontrolled evices).	Id be implemented by dance with GMP princ d the environment. hitable for controlling c rce and to prevent mig d areas (e.g., open-fac	ciples to ompounds gration of
Perso	onal protective equip	ment				
Respiratory protection : Filter type : Hand protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type				
Ма	aterial	:	Chemical-resi	stant gloves		
	emarks protection	:	If the work env mists or aeros Wear a facesh	lasses with side vironment or ac ols, wear the a hield or other fu	e shields or goggles. ctivity involves dusty co ppropriate goggles. Il face protection if the the face with dusts, m	ere is a
Skin a	and body protection	:	Work uniform Additional boo task being per disposable su	formed (e.g., s its) to avoid exp te degowning t	oat. ould be used based up leevelets, apron, gaun posed skin surfaces. echniques to remove	itlets,

Appearance	:	solid
Color		white, blue
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



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	Evapor	ration rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Not classified as	a flammability hazard
	Flamm	ability (liquids)	:	No data available	)
		explosion limit / Upper ability limit	:	No data available	)
		explosion limit / Lower ability limit	:	No data available	)
	Vapor	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relative density		:	No data available	)
	Density	/	:	No data available	)
	Solubility(ies) Water solubility		:	No data available	)
	Partitio octano	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscos Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Particle	e size	:	No data available	3

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
		NI
Conditions to avoid	•	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.



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SECTION	11. TOXICOLOGICAL	_ INF	ORMATION	
Skin c Ingest		es of	exposure	
	e <b>toxicity</b> he harmful if swallowed	l or if	inhaled	
Produ				
	oral toxicity	:	Acute toxicity e Method: Calcu	estimate: 2,451 mg/kg lation method
Acute	inhalation toxicity	:	Acute toxicity e Exposure time Test atmosphe Method: Calcu	re: dust/mist
Comp	oonents:			
Cellul	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5	5,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time Test atmosphe	: 4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
	<b>δ-(R*,R*)]-(β-hydroxy</b> oral toxicity	-α-me :	e <b>thylphenethyl)</b> LD50 (Rat): 66	<b>methylammonium] sulphate:</b> 0 mg/kg
			LD50 (Mouse)	371 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2 Exposure time Test atmosphe	: 4 h
Acute	dermal toxicity	:	LD50 (Rat): > 2 Remarks: Infor similar substar	mation given is based on data obtained from
Disod	lium EDTA, dihydrate	<b>:</b>		
	oral toxicity	:	LD50 (Rat): 2,8 Remarks: Base	800 mg/kg ed on data from similar materials
Acute	inhalation toxicity	:		: 6 h



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				5 400 ma/ka
Acule	oral toxicity	:	LD50 (Mouse):	5,400 mg/kg
Acute	dermal toxicity	:		,000 mg/kg Test Guideline 402 ne substance or mixture has no acute dermal
Deslo	oratadine:			
Acute	oral toxicity	:	LD50 (Rat): > 5	49 mg/kg
			LD50 (Mouse):	353 mg/kg
			LD50 (Monkey) Symptoms: Von Remarks: No m	
-	corrosion/irritation assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Bis[[S	S-(R*.R*)]-(B-hvdrox)	/-α-me	ethvlphenethvl)r	a sthe damma a shumil a cha b a ta c
			,,	nethylammonium] sulphate:
Speci	es	:	Rabbit	
	es	:		
Speci Resul	es t	:	Rabbit	
Speci Resul	es t lium EDTA, dihydrat	:	Rabbit	
Speci Resul Disoc Speci Resul	es t <b>lium EDTA, dihydrat</b> es t	:	Rabbit No skin irritation Rabbit No skin irritation	1
Speci Resul <b>Disoc</b> Speci	es t <b>lium EDTA, dihydrat</b> es t	:	Rabbit No skin irritation Rabbit No skin irritation	1
Speci Resul <b>Disoc</b> Speci Resul Rema	es t <b>lium EDTA, dihydrat</b> es t	:	Rabbit No skin irritation Rabbit No skin irritation	1
Speci Resul <b>Disoc</b> Speci Resul Rema	es t <b>lium EDTA, dihydrat</b> es t urks <b>acid:</b>	:	Rabbit No skin irritation Rabbit No skin irritation	1
Speci Resul Disoc Speci Resul Rema Citric Speci Metho	es t <b>lium EDTA, dihydrat</b> es t urks <b>acid:</b> es od	:	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui	n From similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci	es t <b>lium EDTA, dihydrat</b> es t urks <b>acid:</b> es od	:	Rabbit No skin irritation Rabbit No skin irritation Based on data f	n From similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul	es t <b>lium EDTA, dihydrat</b> es t urks <b>acid:</b> es od	:	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui	n From similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul Desic	es t <b>Jium EDTA, dihydrat</b> es t urks <b>acid:</b> es od t	:	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui	n From similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul	es t <b>lium EDTA, dihydrat</b> es t urks <b>acid:</b> es od t p <b>ratadine:</b> es	:e: : : : : :	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui No skin irritation	n from similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul Desic Speci Resul	es t <b>lium EDTA, dihydrat</b> es t urks <b>acid:</b> es od t p <b>ratadine:</b> es	:e: : : : : : : : : : : : : : :	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui No skin irritation Rabbit No skin irritation	n from similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul Desic Speci Resul Speci Resul	es t Jium EDTA, dihydrat es t urks acid: es od t pratadine: es t us eye damage/eye	:e: : : : : : : : : : : : : : :	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui No skin irritation Rabbit No skin irritation	n from similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul Desic Speci Resul Speci Resul Speci Resul	es t dium EDTA, dihydrat es t t acid: es od t oratadine: es t us eye damage/eye assified based on ava <u>conents:</u>	irritati	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui No skin irritation Rabbit No skin irritation <b>on</b> information.	n from similar materials deline 404
Speci Resul Disoc Speci Resul Rema Citric Speci Metho Resul Desic Speci Resul Speci Resul Speci Resul	es t <b>Jium EDTA, dihydrat</b> es t urks <b>acid:</b> es bd t <b>oratadine:</b> es t <b>us eye damage/eye</b> assified based on ava <u>conents:</u> S-(R*,R*)]-(β-hydroxy	irritati	Rabbit No skin irritation Rabbit No skin irritation Based on data f Rabbit OECD Test Gui No skin irritation Rabbit No skin irritation <b>on</b> information.	n from similar materials deline 404



Disclium EDTA, dihydrate:         Species       :: Rabbit         Remarks       :: Based on available information.         Result       :: Irritation to eyes, reversing within 21 days.         Method       :: OECD Test Guideline 405         Descies       :: Rabbit         Result       :: OECD Test Guideline 405         Descies       :: Rabbit         Result       :: Severe eye irritation         Descies       :: Rabbit         Respiratory or skin sensitization	/ersion 8.3	Revision Date: 10.10.2020	SDS Number:Date of last issue: 13.09.20192095094-00008Date of first issue: 23.10.2017					
Result       : No eye irritation         Remarks       : Based on data from similar materials         Citric acid:       :         Species       : Rabbit         Result       : Irritation to eyes, reversing within 21 days         Method       : OECD Test Guideline 405         Desloratadine:       :         Species       : Rabbit         Remarks       : Severe eye irritation         Skin sensitization       .         Not classified based on available information.         Respiratory or skin sensitization         Skin sensitization         Not classified based on available information.         Components:         Bis[[5-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       : No data available         Disodium EDTA, dihydrate:         Test Type       : Maximization Test         Routes of exposure       : Suin contact         Species       : Guinea pig         Result       : negative         Remarks       : Dermal         Species       : Guinea pig         Result       : negative         Germ cell mutagenicity       : negative         Cerm cell mutagenicity       : Result         Not cla	Disod	ium EDTA, dihydra	ate:					
Remarks       : Based on data from similar materials         Citric acid:		=						
Citric acid:Species::RabbitResult::Withation to eyes, reversing within 21 daysMethod::OECD Test Guideline 405Species::RabbitRemarks::Severe eye irritationSkin sensitizationStore eye irritationSkin sensitizationMot classified based on available information.Respiratory sensitizationNot classified based on available information.Respiratory sensitizationSig[S-(R*, R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:Remarks::No data availableBis[[S-(R*, R*)]-(β-hydroxy-α-methylphenethyl]methylammonium] sulphate:Remarks::No data availableBis[[S-(R*, R*)]-(β-hydroxy-α-methylphenethyl]methylammonium] sulphate:Remarks::Sulpha pigResuth::No data availableSepcies:::Sulpha pig:Resuth::: <td< td=""><td></td><td></td><td></td></td<>								
Species       : Rabbit         Result       : Irritation to eyes, reversing within 21 days         Method       : OECD Test Guideline 405         Desloratadine:       :         Species       : Rabbit         Remarks       : Severe eye irritation         Respiratory or skin sensitization       : Skin sensitization         Not classified based on available information.       : Respiratory sensitization         Not classified based on available information.       : Components:         Bis[[5-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:       : Remarks         Remarks       : No data available         Disodium EDTA, dihydrate:       : No data available         Test Type       : Skin contact         Species       : Guinea pig         Result       : negative         Result       : negative         Result       : negative         Species       : Guinea pig         Result       : negative         Species       : Guinea pig         Result       : negative         Species       : Guinea pig         Result       : negative         Clussified based on available information.         Components:       : Guinea pig         Spe	Rema	rks	: Based on data from similar materials					
Result       :       Irritation to eyes, reversing within 21 days         Method       :       OECD Test Guideline 405         Desloratadine:       :       Species       :         Species       :       Rabbit         Remarks       :       Severe eye irritation         Skin sensitization       Skin sensitization         Skin sensitization       Not classified based on available information.         Respiratory sensitization       Not classified based on available information.         Components:       Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       :       No data available         Disodium EDTA, dihydrate:       Test Type       :         Test Type       :       Maximization Test         Routes of exposure       :       Skine a pig         Result       :       negative         Remarks       :       Based on data from similar materials         Desloratadine:       :       Dermal         Species       :       Ourmal         Species       :       Dermal         Species       :       Guinea pig         Result       :       negative         Cellulose:       :       Dermal	Citric	acid:						
Method       : OECD Test Guideline 405         Desloratadine:       Species         Species       : Rabbit         Remarks       : Severe eye irritation         Skin sensitization       Skin sensitization         Skin sensitization       Not classified based on available information.         Respiratory sensitization       Not classified based on available information.         Respiratory sensitization       Not classified based on available information.         Components:       Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       : No data available         Disodium EDTA, dihydrate:       : No data available         Test Type       : Maximization Test         Routes of exposure       : Skin contact         Species       : Guinea pig         Result       : negative         Remarks       : Based on data from similar materials         Desloratadine:       : Dermal         Species       : Guinea pig         Result       : negative         Cerm cell mutagenicity       Not classified based on available information.         Desloratatine:       : negative         Species       : Guinea pig         Result       : negative         Cellulose:       :			: Rabbit					
Desionatadine:Species::Remarks::Severe eye irritationRespiratory or skin sensitizationSkin sensitizationNot classified based on available information.Respiratory sensitizationNot classified based on available information.Components:Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:Remarks:No data availablePosodium EDTA, dihydrate:Test Type::Maximization TestRoutes of exposure::Species::Guinea pigResult::Test Type::Maximization TestRoutes of exposure::Based on data from similar materialsDesloratadine:Test Type::Maximization TestRoutes of exposure::Species::Bustoratadine:Test Type::Maximization TestRoutes of exposure::Guinea pigResult::Itest TypeMaximization TestRoutes field based on available information.Louise based on available information.Louise based on available information.Louise based on available information.Components:Based Descinea pigResultResultComponents:Louise based on available information.Louise based on available information.Louise based on available information. <td< td=""><td></td><td></td><td></td></td<>								
Species       Rabbit         Remarks       Severe eye irritation         Respiratory or skin sensitization         Skin sensitization         Not classified based on available information.         Respiratory sensitization         Not classified based on available information.         Components:         Bis[[5-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       No data available         Disodium EDTA, dihydrate:         Test Type       Maximization Test         Routes of exposure       Skin contact         Species       Guinea pig         Result       negative         Result       negative         Result       general         Species       Guinea pig         Result       negative         Cern cell mutagenicity       Not classified based on available information.         Components:       Components:         Cern cell mutagenicity       Not classified based on available information. <tr< td=""><td>Metho</td><td>d</td><td>: OECD Test Guideline 405</td></tr<>	Metho	d	: OECD Test Guideline 405					
Remarks       : Severe eye irritation         Respiratory or skin sensitization         Skin sensitization         Not classified based on available information.         Respiratory sensitization         Not classified based on available information.         Components:         Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       : No data available         Disodium EDTA, dihydrate:         Test Type       : Maximization Test         Routes of exposure       : Skin contact         Species       : Guinea pig         Result       : negative         Result       : engative         Maximization Test       : engative         Maximization Test       : engative         Result       : engative         Maximization Test       : engative         Maximization Test       : engative         Maximization Test       : engative         Species       : engative         Component	Deslo	ratadine:						
Respiratory or skin sensitization         Skin sensitization         Not classified based on available information.         Respiratory sensitization         Not classified based on available information.         Components:         Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       in No data available         Disodium EDTA, dihydrate:         Test Type       in Maximization Test         Routes of exposure       in Skin contact         Species       in Gauinea pig         Result       in negative         Maximization Test       Routes of exposure         Routes of exposure       in Guinea pig         Result       in negative         Mot classified based on available information.       Components:         Carmocal mutagenicity       in negative         Mot classified based on available information.       Components: <td< td=""><td></td><td></td><td>: Rabbit</td></td<>			: Rabbit					
Skin sensitization         Not classified based on available information.         Respiratory sensitization         Not classified based on available information.         Components:         Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       in No data available         Disodium EDTA, dihydrate:         Test Type       Maximization Test         Routes of exposure       in Skin contact         Species       in Guinea pig         Result       in negative         Remarks       in Based on data from similar materials         Destoratadine:       in negative         Test Type       in Maximization Test         Routes of exposure       in Dermal         Species       in Guinea pig         Result       in negative         Result       in negative         Mott classified based on available information.         Components:         Gern cell mutagenicity         Not classified based on available information.         Components:         Cellulose:         Genotoxicity in vitro       Test Type: Bacterial reverse mutation assay (AMES)         Result: negative	Rema	rks	: Severe eye irritation					
Not classified based on available information.         Respiratory sensitization         Not classified based on available information.         Components:         Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       :         No data available         Disodium EDTA, dihydrate:         Test Type       :         Routes of exposure       :         Skin contact         Species       :         Generation:         Test Type       :         Remarks       :         Based on data from similar materials         Desloratadine:         Result       :         Test Type       :         Maximization Test         Routes of exposure       :         Desloratadine:         Test Type       :         Species       :         Guinea pig         Result       :         Result       :         Not classified based on available information.         Components:         Gern cell mutagenicity         Not classified based on available information.         Components:         Genotoxicity in vitro       :	Respi	ratory or skin sen	sitization					
Respiratory sensitization         Not classified based on available information.         Components:         Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       :         Not data available         Disodium EDTA, dihydrate:         Test Type       :         Routes of exposure       :         Species       :         Guinea pig         Result       :         Remarks       :         Based on data from similar materials         Desloratadine:         Test Type       :         Maximization Test         Routes of exposure       :         Based on data from similar materials         Desloratadine:         Test Type       :         Species       :         Guinea pig         Result       :         Routes of exposure       :         Species       :         Guinea pig         Result       :         Not classified based on available information.         Components:         Cellulose:         Genotoxicity in vitro       :         Genotoxicity in vitro       :         Te	Skin s	sensitization						
Not classified based on available information.         Components:         Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       :         No data available         Disodium EDTA, dihydrate:         Test Type       :         Test Type       :         Routes of exposure       :         Species       :         Guinea pig         Result       :         Result       :         Test Type       :         Maximization Test         Routes of exposure       :         Based on data from similar materials         Desloratadine:         Test Type       :         Maximization Test         Routes of exposure       :         Dermal         Species       :         Germ cell mutagenicity         Not classified based on available information.         Components:         Cellulose:         Genotoxicity in vitro       :         Test Type: In vitro mammalian cell gene mutation test	Not cla	assified based on a	vailable information.					
Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:         Remarks       :       No data available         Disodium EDTA, dihydrate:       .         Test Type       :       Maximization Test         Routes of exposure       :       Skin contact         Species       :       Guinea pig         Result       :       negative         Remarks       :       Based on data from similar materials         Desloratadine:       .       .         Test Type       :       Maximization Test         Routes of exposure       :       Dermal         Species       :       Guinea pig         Result       :       negative         Maximization Test       Routes of exposure       :         Result       :       Dermal         Species       :       Guinea pig         Result       :       negative         Mot classified based on available information.       .         Components:       .       .         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES)         Result: negative       .       .         Test Type: In vitro mammalian cell gene mutation test       . </td <td>-</td> <td>-</td> <td></td>	-	-						
Remarks       : No data available         Disodium EDTA, dihydrate:	<u>Comp</u>	onents:						
Remarks       :       No data available         Disodium EDTA, dihydrate:	Bis[[S-(R* R*)]-(R-hydroxy		xy-α-methylphenethyl)methylammonium] sulphate:					
Disodium EDTA, dihydrate:         Test Type       Maximization Test         Routes of exposure       Skin contact         Species       Guinea pig         Result       negative         Remarks       Based on data from similar materials         Desloratadine:       Notestation Test         Routes of exposure       Dermal         Species       Guinea pig         Result       Dermal         Species       Guinea pig         Result       negative         Becies       Guinea pig         Result       negative         Mot classified based on available information.         Components:       E         Genotoxicity in vitro       Test Type: Bacterial reverse mutation assay (AMES)         Result: negative       Test Type: In vitro mammalian cell gene mutation test								
Test Type       Maximization Test         Routes of exposure       Skin contact         Species       Guinea pig         Result       negative         Remarks       Based on data from similar materials         Desloratadine:       Test Type         Test Type       Maximization Test         Routes of exposure       Dermal         Species       Guinea pig         Result       negative         Germ cell mutagenicity       Not classified based on available information.         Components:       Genotoxicity in vitro         Genotoxicity in vitro       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test								
Routes of exposure       :       Skin contact         Species       :       Guinea pig         Result       :       negative         Remarks       :       Based on data from similar materials         Desloratadine:       .       .         Test Type       :       Maximization Test         Routes of exposure       :       Dermal         Species       :       Guinea pig         Result       :       negative         Germ cell mutagenicity       .       negative         Not classified based on available information.       .         Components:       .       .         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test       .		-						
Species       :       Guinea pig         Result       :       negative         Remarks       :       Based on data from similar materials         Desloratadine:       .       .         Test Type       :       Maximization Test         Routes of exposure       :       Dermal         Species       :       Guinea pig         Result       :       negative         Germ cell mutagenicity       .       negative         Not classified based on available information.       .         Components:       .       .         Genotoxicity in vitro       :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test       .								
Result       : negative         Remarks       : Based on data from similar materials         Desloratadine:       :         Test Type       : Maximization Test         Routes of exposure       : Dermal         Species       : Guinea pig         Result       : negative         Germ cell mutagenicity         Not classified based on available information.         Components:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test								
Remarks       :       Based on data from similar materials         Desloratadine:       .         Test Type       :       Maximization Test         Routes of exposure       :       Dermal         Species       :       Guinea pig         Result       :       negative         Germ cell mutagenicity       .         Not classified based on available information.         Components:         Genotoxicity in vitro       :         Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test	•							
Test Type       : Maximization Test         Routes of exposure       : Dermal         Species       : Guinea pig         Result       : negative         Germ cell mutagenicity         Not classified based on available information.         Components:         Genotoxicity in vitro         :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test								
Test Type       :       Maximization Test         Routes of exposure       :       Dermal         Species       :       Guinea pig         Result       :       negative         Germ cell mutagenicity         Not classified based on available information.         Components:       .         Genotoxicity in vitro       :         Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test	Deelo	ratadine <sup>.</sup>						
Routes of exposure       : Dermal         Species       : Guinea pig         Result       : negative         Germ cell mutagenicity         Not classified based on available information.         Components:         Genotoxicity in vitro         :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test			· Maximization Test					
Species       : Guinea pig         Result       : negative         Germ cell mutagenicity         Not classified based on available information.         Components:         Cellulose:         Genotoxicity in vitro         :       Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test								
Germ cell mutagenicity Not classified based on available information. Components: Cellulose: Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test								
Not classified based on available information.         Components:         Cellulose:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test	Result	t	: negative					
Not classified based on available information.         Components:         Cellulose:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test	Germ	cell mutagenicity						
Cellulose:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Test Type: In vitro mammalian cell gene mutation test			vailable information.					
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: In vitro mammalian cell gene mutation test	Comp	onents:						
Result: negative Test Type: In vitro mammalian cell gene mutation test	Cellul	ose:						
	Genot	oxicity in vitro						



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Geno	toxicity in vivo	cytogenetic Species: M	louse Route: Ingestion
Bis[[	S-(R*,R*)]-(β-hydroxy	α-methylphenet	hyl)methylammonium] sulphate:
	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative nformation given is based on data obtained from
		Result: neg	nformation given is based on data obtained from
Geno	toxicity in vivo	Species: R Application Result: neg	Route: Oral
Disod	dium EDTA, dihydrate	:	
Geno	toxicity in vitro	Result: neg	Chromosome aberration test in vitro gative Based on data from similar materials
Geno	toxicity in vivo	cytogenetii Species: M Application Method: O Result: neg	louse Route: Ingestion ECD Test Guideline 474
Citric	acid:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: pos	in vitro micronucleus test sitive
		Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
Geno	toxicity in vivo	cytogenetic Species: R	Route: Ingestion



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Deslo	ratadine:	
Genote	oxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Chromosomal aberration Test system: Human lymphocytes Result: negative
Genote	oxicity in vivo	: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative
	<b>ogenicity</b> assified based on av	vailable information.
	onents:	
Cellul	ose:	
Specie		: Rat
	ation Route	: Ingestion
	ure time	72 weeks
Result		: negative
Bis[[S	-(R*,R*)]-(β-hydro	xy-α-methylphenethyl)methylammonium] sulphate:
Specie		: Rat
	ation Route	: Oral
	ure time	: 2 Years
Result		: negative
Remar	ks	: Based on data from similar materials
Specie	S	: Mouse
	ation Route	: Oral
	ure time	: 2 Years
Result		: negative
Remar	KS	: Based on data from similar materials
Disod	ium EDTA, dihydra	ate:
Specie		: Rat
	ation Route	: Ingestion
	ure time	: 103 weeks
Result Remar		: negative : Based on data from similar materials
Reiligi	NO	. Dased on data nom similar materials
Deslo	ratadine:	
Specie		: Mouse
	ation Route	: Oral
	ure time	: 2 Years
Result		: negative



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LOA Resi	ult et Organs			veight om similar materials or mode of action may not be relevant in hu-
	roductive toxicity bected of damaging fertilit	ty. S	suspected of dama	aging the unborn child.
<u>Com</u>	iponents:			
Cellu	ulose:			
Effec	cts on fertility	:	Test Type: One- Species: Rat Application Rout Result: negative	generation reproduction toxicity study e: Ingestion
Effec	cts on fetal development	:	Test Type: Fertil Species: Rat Application Rout Result: negative	ity/early embryonic development e: Ingestion
Bis[	[S-(R*.R*)]-(β-hvdroxv-α	(-me	ethvlphenethvl)m	ethylammonium] sulphate:
	cts on fertility	:	Test Type: Fertil Species: Rat Application Rout Fertility: LOAEL:	ity
Effec	cts on fetal development	:	Test Type: Embr Species: Rabbit Application Rout Result: No terato	
			Application Rout Developmental 1 Result: No embry tests., No teratog	oxicity: LOAEL: 27 mg/kg body weight yotoxic effects have been observed in animal
Diso	dium EDTA, dihydrate:			
	cts on fertility	:	Species: Rat Application Rout Result: negative	generation reproduction toxicity study e: Ingestion on data from similar materials
Effec	cts on fetal development	:	Test Type: Embr Species: Rat Application Rout	yo-fetal development e: Ingestion



Versio 3.3		Revision Date: 0.10.2020		S Number: 95094-00008	Date of last issue: 13.09.2019 Date of first issue: 23.10.2017
				Result: negative Remarks: Based	on data from similar materials
Ci	itric aci	d:			
Ef	ffects or	n fetal development	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
D	eslorata	adine:			
Ef	ffects or	n fertility	:	Symptoms: Reduce Result: positive	e : Oral 12 mg/kg body weight
				Test Type: Fertilit Species: Rat, fem Fertility: NOAEL: Symptoms: No eff Result: negative	ale 3 mg/kg body weight
Ef	ffects or	n fetal development	:	Species: Rabbit Application Route	oxicity: NOAEL: 30 mg/kg body weight
				Species: Rat Application Route Developmental To Symptoms: Preim Result: Specific d	ro-fetal development : Oral pxicity: LOAEL: 9 mg/kg body weight plantation loss., Reduced body weight evelopmental abnormalities. echanism or mode of action may not be rele-
				Test Type: Two-g Species: Rat Application Route Developmental To Result: No advers	: Oral oxicity: LOAEL: 18 mg/kg body weight
	eproduc essment	tive toxicity - As-	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal

### STOT-single exposure

Not classified based on available information.



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### STOT-repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.

Causes damage to organs (Cardio-vascular system) through prolonged or repeated exposure if inhaled.

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure.

### **Components:**

### Bis[[S-(R\*,R\*)]-( $\beta$ -hydroxy- $\alpha$ -methylphenethyl)methylammonium] sulphate:

Routes of exposure	:	Ingestion, Inhalation
Target Organs	:	Central nervous system, Cardio-vascular system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

#### Disodium EDTA, dihydrate:

Routes of exposure	:	inhalation (dust/mist/fume)
Target Organs	:	Respiratory Tract
Assessment	:	Shown to produce significant health effects in animals at con- centrations of >0.02 to 0.2 mg/l/6h/d.

### **Repeated dose toxicity**

### Components:

Cellulose:		
Species	:	Rat
NOAEL	:	>= 9,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

### Bis[[S-( $R^*$ , $R^*$ )]-( $\beta$ -hydroxy- $\alpha$ -methylphenethyl)methylammonium] sulphate:

Remarks

: No data available

### Disodium EDTA, dihydrate:

Species NOAEL Application Route Exposure time Remarks		Rat 500 mg/kg Ingestion 13 Weeks Based on data from similar materials
Species LOAEL Application Route Exposure time Remarks		Rat 0.03 mg/l inhalation (dust/mist/fume) 4 Weeks Based on data from similar materials
<b>Citric acid:</b> Species NOAEL LOAEL Application Route	: : :	Rat 4,000 mg/kg 8,000 mg/kg Ingestion



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Expos	sure time	: 10[	Days	
Speci LOAE Applic Expos	EL cation Route sure time et Organs	: Ora : 3 M : Kidr : Sigr The	ng/kg l onths ney nificant toxicity	r observed in testing r mode of action may not be relevant in
Expos	EL EL cation Route sure time et Organs	: 6 m : 12 r : Ora : 3 M : Cer	nkey g/kg ng/kg l onths onths otral nervous s strointestinal d	
	EL cation Route sure time	: 40 r : Ora : 17 M	Nonths	erse effects were reported
	EL cation Route sure time	: 6 m : Ora : 3 M	onths	isturbance, Fatigue

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

### **Components:**

Bis[[S-(R*,R*)]-(β-hydroxy-o	methylphenethyl)methylammonium] sulphate:
Inhalation Eye contact Ingestion	<ul> <li>Remarks: May cause irritation of respiratory tract.</li> <li>Remarks: May irritate eyes.</li> <li>Symptoms: central nervous system effects, tachycardia, Palpi- tation</li> </ul>
<b>Desloratadine:</b> Inhalation Eye contact Ingestion	<ul> <li>Remarks: May cause respiratory tract irritation.</li> <li>Symptoms: Eye irritation</li> <li>Symptoms: dry mouth, muscle pain, Fatigue, Drowsiness, sore throat, painful menstration</li> </ul>



SECTION 12. ECO Ecotoxicity <u>Components:</u> Cellulose: Toxicity to fish	<u>.</u>		LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h
<u>Components:</u> Cellulose:		:	Exposure time: 48 h
<u>Components:</u> Cellulose:		:	Exposure time: 48 h
Cellulose:		:	Exposure time: 48 h
		:	Exposure time: 48 h
			Remarks: Based on data from similar materials
Disodium ED	TA, dihydrate:		
Toxicity to fish	-	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 159 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to dap aquatic inverte		:	EC50 (Daphnia magna (Water flea)): 140 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
Toxicity to alga plants	ae/aquatic	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg Exposure time: 72 h Remarks: Based on data from similar materials
			NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l Exposure time: 72 h Remarks: Based on data from similar materials
Toxicity to fish icity)	(Chronic tox-	:	NOEC (Danio rerio (zebra fish)): 25.7 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 Remarks: Based on data from similar materials
	hnia and other brates (Chron-	:	NOEC (Daphnia magna (Water flea)): 25 mg/l Exposure time: 21 d Remarks: Based on data from similar materials
Toxicity to mic	roorganisms	:	EC50: < 500 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Citric acid:			
Toxicity to fish		:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to dap aquatic inverte	hnia and other brates	:	EC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h
Desloratadine		_	
Toxicity to fish		•	LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.2 mg/l Exposure time: 96 h



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			Method: FDA 4.11	1
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08	
Toxi plan	icity to algae/aquatic ts	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
Toxi icity)	icity to fish (Chronic tox- )	:	NOEC (Pimephale Exposure time: 32 Method: OECD Te	
aqua	icity to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
Тохі	icity to microorganisms	:	EC50 (Natural mid Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
			NOEC (Natural m Exposure time: 3 Test Type: Respir Method: OECD Te	ation inhibition
Pers	sistence and degradabili	ity		
<u>Con</u>	nponents:			
	<b>ulose:</b> legradability	:	Result: Readily bi	odegradable.
Disc	odium EDTA, dihydrate:			
Biod	legradability	:	Result: Inherently Biodegradation: & Exposure time: 28 Remarks: Based of	30 - 90 %
	<b>ic acid:</b> legradability	:	Result: Readily bi Biodegradation: S Exposure time: 28 Method: OECD Te	97 %



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Deslo	oratadine:			
Biode	gradability	:	Biodegradation: Exposure time: 2	
			Result: Not readi Biodegradation: Exposure time: 2 Method: FDA 3.1	8 d
Stabil	ity in water	:	Hydrolysis: < 10 Method: FDA 3.0	
Bioad	cumulative potential			
Comp	oonents:			
Bis[[\$	S-(R*,R*)]-(β-hydroxy-α	-me	thylphenethyl)m	ethylammonium] sulphate:
	on coefficient: n- ol/water	:	log Pow: 0.89	
Disoc	lium EDTA, dihydrate:			
Bioac	cumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 1.8 on data from similar materials
	on coefficient: n- ol/water	:	log Pow: -4.3	
Citric	acid:			
	on coefficient: n- ol/water	:	log Pow: -1.72	
	oratadine:			
	on coefficient: n- ol/water	:	log Pow: 1.24 Method: OECD 1	est Guideline 107
Mobil	ity in soil			
<u>Comp</u>	oonents:			
Deslo	oratadine:			
	oution among environ- al compartments	:	log Koc: 3.00 Method: OECD T	est Guideline 106
Other	adverse effects			
No da	ita available			

**Disposal methods** 

Waste from residues

: Dispose of in accordance with local regulations.



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Con	taminated packaging	handling site for	ers should be taken to an approved waste or recycling or disposal. e specified: Dispose of as unused product.		
SECTIO	N 14. TRANSPORT INFO	ORMATION			
Inte	rnational Regulations				
•	RTDG regulated as a dangerou	s good			
	IATA-DGR Not regulated as a dangerous good				
	IMDG-Code Not regulated as a dangerous good				
	applicable for product as	-	RPOL 73/78 and the IBC Code		
Don	nestic regulation				
	<b>/-002-SCT</b> regulated as a dangerou	s 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, essential chemical products and machinery for producing capsules, tablets and pills. : Bis[[S-(R\*,R\*)]-(β-hydroxy-αmethylphenethyl)methylammonium] sulphate

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

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

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

Full text	of	other	abbreviations
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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NOM-010-STPS-2014	:	Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting
		the Work Environment - Identification, Assessment and Con-
		trol - Appendix 1 Occupational Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
NOM-010-STPS-2014 / VLE-	:	Time weighted average limit value
PPT		



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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; 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/
Revision Date	:	10.10.2020

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.

MX / Z8