

Versic 4.0	n Revision Date: 2020/10/10	SDS Number:Date of last issue: 2020/03/232095098-00009Date of first issue: 2017/10/23
1. PR	ODUCT AND COMPANY IDE	ENTIFICATION
С	hemical product name	: Desloratadine / Pseudoephedrine Formulation
	<b>upplier's company name, a</b> Company name of supplier	-
А	ddress	: 30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302
т	elephone	: 551-430-6000
E	-mail address	: EHSSTEWARD@organon.com
E	mergency telephone number	: 215-631-6999
R	ecommended use of the ch	nemical and restrictions on use
R	ecommended use	: Pharmaceutical
2. HA	ZARDS IDENTIFICATION	
0	HS classification of chemi	al product
S		: Category 1 (Central nervous system)
re	pecific target organ toxicity - epeated exposure nhalation)	: Category 1 (Cardio-vascular system)
G	iHS label elements	
H	lazard pictograms	
S	ignal word	: Danger
H	lazard statements	<ul> <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> </ul>
Ρ	recautionary statements	Prevention:
		P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
		<b>Response:</b> P314 Get medical advice/ attention if you feel unwell.
		Disposal:



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		P501 Dispose o disposal plant.	f contents/ container to an ap	proved waste
Othe	r hazards which do not re	esult in classificat	ion	
None	known.			
СОМРС				
Subst Com	ance / Mixture : conents	Mixture		
Subst Com	oonents nical name	CAS-No.	Concentration (% w/w)	ENCS No.
Subst Com Chem Cellul Bis[[S	ponents nical name ose G-(R*,R*)]-(β-hydroxy-α- /lphenethyl)methylammoni	CAS-No. 9004-34-6 7460-12-0	Concentration (% w/w) >= 30 - < 40 >= 20 - < 30	ENCS No.
Subst Com Chem Cellul Bis[[S methy	oonents nical name ose 5-(R*,R*)]-(β-hydroxy-α- /lphenethyl)methylammoni hate	CAS-No. 9004-34-6 7460-12-0	>= 30 - < 40	ENCS No.
Subst Com Chem Cellul Bis[[S methy ] sulp Citric	oonents nical name ose 5-(R*,R*)]-(β-hydroxy-α- /lphenethyl)methylammoni hate	CAS-No. 9004-34-6 7460-12-0	>= 30 - < 40 >= 20 - < 30	

### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
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. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes damage to organs through prolonged or repeated exposure if swallowed. Causes damage to organs through prolonged or repeated exposure if inhaled.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray



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Unsu	itable extinguishing	:	Alcohol-resistant f Carbon dioxide (C Dry chemical None known.	
media Spec fightii	ific hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	rdous combustion prod-	:	Carbon oxides Nitrogen oxides (N Metal oxides	NOx)
Spec ods	ific extinguishing meth-	:	cumstances and t Use water spray to	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
	ial protective equipment efighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
6. ACCID	ENTAL RELEASE MEAS	SUF	RES	
tive e	onal precautions, protec- quipment and emer- y procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
Envir	onmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	ods and materials for inment and cleaning up	:	tainer for disposal Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	ium up spillage and collect in suitable con- egulations may apply to releases and dis- rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. 5 of this SDS provide information regarding tional requirements.

### 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	<ul> <li>Do not breathe dust, fume, gas, mist, vapours or spray.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Wash skin thoroughly after handling.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as-</li> </ul>



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	voidance of contact vgiene measures	<ul> <li>Take care to preenvironment.</li> <li>Oxidizing agent</li> <li>If exposure to c flushing system place.</li> <li>When using do Wash contamin The effective op engineering cor appropriate deg</li> </ul>	hemical is likely during typical use, provide eye s and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of htrols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the
St	orage		
Co	onditions for safe storage		y labelled containers. ance with the particular national regulations.
Ma	aterials to avoid		h the following product types:
Pa	ackaging material	: Unsuitable mate	erial: None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Threshold limit value and permissible exposure limits for each component in the work environment

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
Bis[[S-(R*,R*)]-(β-hydroxy-α- methylphenethyl)methylammo nium] sulphate	7460-12-0	TWA	50 μg/m3 (OEB 3)	Internal
		Wipe limit	500 µg/100 cm <sup>2</sup>	Internal
Desloratadine	100643-71-8	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm <sup>2</sup>	Internal

Engineering measures : All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.

### Personal protective equipment

Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type Hand protection	:	Particulates type



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Ма	terial	: Chemical-resist	ant gloves
	marks otection	If the work envir mists or aeroso Wear a faceshie	e gloving. sses with side shields or goggles. ronment or activity involves dusty conditions, ls, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
Skin a	nd body protection	Additional body task being perfo posable suits) to	r laboratory coat. garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, dis- p avoid exposed skin surfaces. e degowning techniques to remove potentially lothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	solid
Colour	:	white, blue
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Boiling point, initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard
Flammability (liquids)	:	No data available
Lower explosion limit and uppe Upper explosion limit / Upper flammability limit		xplosion limit / flammability limit No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Decomposition temperature	:	No data available
рН	:	No data available
Evaporation rate	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, kinematic	:	Not applicable



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V Part	ibility(ies) Vater solubility ition coefficient: n- nol/water	:	No data available Not applicable	9
Vap	our pressure	:	Not applicable	
	sity and / or relative dens ative density	ity :	No data available	2
Den	sity	:	No data available	9
Rela	tive vapour density	:	Not applicable	
Expl	osive properties	:	Not explosive	
Oxic	lizing properties	:	The substance o	r mixture is not classified as oxidizing.
	icle characteristics icle size	:	No data available	9

### **10. STABILITY AND REACTIVITY**

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

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Skin contact
exposure		Ingestion
		Eye contact

### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method



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<u>Comp</u>	oonents:			
Cellu				
Acute	oral toxicity	: L	D50 (Rat): > 5	i,000 mg/kg
Acute	inhalation toxicity	E	C50 (Rat): > 5 xposure time: est atmosphe	4 h
Acute	dermal toxicity	: L	D50 (Rabbit):	> 2,000 mg/kg
Bis[[\$	S-(R*,R*)]-(β-hydroxy	-α-meth	ylphenethyl)	methylammonium] sulphate:
	oral toxicity		D50 (Rat): 660	
		L	D50 (Mouse):	371 mg/kg
Acute	inhalation toxicity	E	C50 (Rat): > 2 xposure time: est atmosphe	4 h
Acute	dermal toxicity	R	D50 (Rat): > 2 emarks: Infori imilar substan	mation given is based on data obtained from
Citric	acid:			
Acute	oral toxicity	: L	D50 (Mouse):	5,400 mg/kg
Acute	dermal toxicity	N A		2,000 mg/kg Test Guideline 402 he substance or mixture has no acute dermal
Disod	lium EDTA, dihydrat	e:		
	oral toxicity	: L	D50 (Rat): 2,8 emarks: Base	00 mg/kg d on data from similar materials
Acute	inhalation toxicity	E T N		6 h
	pratadine:			
UL.	oral toxicity	: L	D50 (Rat): > 5	49 mg/kg
		L	D50 (Mouse):	353 mg/kg
		S	ymptoms: Vor	: > 250 mg/kg miting nortality observed at this dose.



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Skin	corrosion/irritation			
Not c	lassified based on avail	able	information.	
<u>Com</u>	ponents:			
		α-m		nethylammonium] sulphate:
Spec Resu		:	Rabbit No skin irritatioi	n
Citric	c acid:			
Spec	ies	:	Rabbit	
Meth		:	OECD Test Gu	
Resu	lt	:	No skin irritatio	n
44	dium EDTA, dihydrate	:	5.11.1	
Spec Resu		:	Rabbit No skin irritatior	0
Rema		:		from similar materials
Desk	oratadine:			
Spec			Rabbit	
Resu		÷	No skin irritatio	n
Bis[[		α-m		nethylammonium] sulphate:
Spec Resu	•	:	Rabbit No eye irritatior	
Intesu	it.	•		I
UL.	c acid:			
Spec		:	Rabbit	- reversing within 21 days
Resu Meth		:	OECD Test Gu	s, reversing within 21 days ideline 405
Diso	dium EDTA, dihydrate	:		
Spec		:	Rabbit	
Resu	lt	:	No eye irritation	
Rema	arks	:	Based on data	from similar materials
Desl	oratadine:			
Spec		:	Rabbit	
Rema	arks	:	Severe eye irrit	ation
Resp	piratory or skin sensiti	satio	on	
Skin	sensitisation			
•••••				

Not classified based on available information.



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-	iratory sensitisation	1	
Not cl	assified based on ava	ilable information.	
<u>Comp</u>	oonents:		
Bisf	S-(R* R*)]-(B-hydroxy	-a-methylpheneth	yl)methylammonium] sulphate:
Rema		: No data ava	
Disod	lium EDTA, dihydrate	9:	
Test 1		: Maximisation	n Test
	sure routes	: Skin contact	
Speci		: Guinea pig	
Resul		: negative	to from cimilar motorials
Rema	irks	: Based on da	ata from similar materials
	oratadine:		
Test T		: Maximisation	n lest
Expos	sure routes	: Dermal : Guinea pig	
Resul		: negative	
Cellu			
Geno	toxicity in vitro	: Test Type: E Result: nega	Bacterial reverse mutation assay (AMES) Itive
		Test Type: I Result: nega	n vitro mammalian cell gene mutation test ttive
Geno	toxicity in vivo	: Test Type: N cytogenetic Species: Mo	
			Route: Ingestion
	S-(R*.R*)1-(B-hvdroxv	-α-methylpheneth	yl)methylammonium] sulphate:
Geno	toxicity in vitro	Result: nega	
Geno		Result: nega	tive formation given is based on data obtained from
Geno		Result: nega Remarks: In similar subst Test Type: 0	ative formation given is based on data obtained from cances.
Geno		Result: nega Remarks: In similar subst Test Type: C Result: nega	ative formation given is based on data obtained from cances. Chromosomal aberration ative formation given is based on data obtained from
		Result: nega Remarks: In similar subst Test Type: 0 Result: nega Remarks: In similar subst	ative formation given is based on data obtained from cances. Chromosomal aberration ative formation given is based on data obtained from cances.



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∥		Result: negative Remarks: Based c	n data from similar materials
Citric	c acid:		
Geno	otoxicity in vitro	: Test Type: Bacteri Result: negative	al reverse mutation assay (AMES)
		Test Type: in vitro Result: positive	micronucleus test
		Test Type: Bacteri Result: negative	al reverse mutation assay (AMES)
Geno	otoxicity in vivo		enicity (in vivo mammalian bone-marrow hromosomal analysis) Ingestion
	dium EDTA, dihydrate		
8.8.	otoxicity in vitro	: Test Type: Chrom Result: negative	osome aberration test in vitro on data from similar materials
Genc	otoxicity in vivo	cytogenetic assay) Species: Mouse Application Route: Method: OECD Te Result: negative	Ingestion
	oratadine:		
	otoxicity in vitro	: Test Type: Bacteri Result: negative	al reverse mutation assay (AMES)
		Test Type: Chrom Test system: Hum Result: negative	
Genc	otoxicity in vivo	: Test Type: Micron Species: Mouse Cell type: Bone ma Application Route: Result: negative	arrow

### Carcinogenicity

Not classified based on available information.



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Com	oonents:		
Cellu			
LL.		. Det	
Speci		: Rat	
	cation Route sure time	: Ingestion : 72 weeks	
Resul		: negative	
Bis[[	S-(R*.R*)1-(B-hvdrox	γ-α-methylphenethyl)ı	nethylammonium] sulphate:
Speci		: Rat	·····
	cation Route	: Oral	
	sure time	: 2 Years	
Resul		: negative	
Rema		-	from similar materials
Speci	es	: Mouse	
	cation Route	: Oral	
Expos	sure time	: 2 Years	
Resul		: negative	
Rema	arks	: Based on data	from similar materials
Disod	dium EDTA, dihydra	te:	
Speci	es	: Rat	
Applic	cation Route	: Ingestion	
Expos	sure time	: 103 weeks	
Resul		: negative	
Rema	arks	: Based on data	from similar materials
Deslo	pratadine:		
Speci	es	: Mouse	
	cation Route	: Oral	
Expos	sure time	: 2 Years	
Resul	lt	: negative	
Speci		: Rat	
	cation Route	: Oral	
LÖAE		: 10 mg/kg body	weight
Resul		: equivocal	
l arge Rema	et Organs	: Liver	from similar materials
Rema	arks		n or mode of action may not be relevant
_			
-	oductive toxicity lassified based on ava	ailable information	
	oonents:		

### Cellulose:

Effects on fertility

Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion

:



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			Result: negative	
Effects	s on foetal develop-	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion
Bis[[S	-(R*,R*)]-(β-hydroxy-o	(-me	thylphenethyl)me	ethylammonium] sulphate:
Effects	s on fertility	:		-
Effects	s on foetal develop-	:	Test Type: Embry Species: Rabbit Application Route Result: No teratog	
			Application Route Developmental To Result: No embry tests., No teratogo	oxicity: LOAEL: 27 mg/kg body weight otoxic effects have been observed in animal
Citric	acid:			
Effects	s on foetal develop-	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
Disod	ium EDTA, dihydrate:			
	s on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion on data from similar materials
Effects ment	s on foetal develop-	:	Species: Rat Application Route Result: negative	ro-foetal development : Ingestion on data from similar materials
Deslo	ratadine:			
Effects	s on fertility	:	Test Type: Fertilit Species: Rat, mal Application Route Fertility: LOAEL: Symptoms: Reduc Result: positive	e : Oral 12 mg/kg body weight



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<b>F</b> #22		vant in humar Test Type: Fe Species: Rat, Fertility: NOA Symptoms: N Result: negati	ortility female EL: 3 mg/kg body weight o effects on fertility ve
ment	ts on foetal develop-	Species: Rabl Application Re Developmenta Result: No ter Test Type: En Species: Rat Application Re Developmenta Symptoms: P Result: Specia Remarks: The vant in humar	oute: Oral al Toxicity: NOAEL: 30 mg/kg body weight atogenic effects nbryo-foetal development oute: Oral al Toxicity: LOAEL: 9 mg/kg body weight reimplantation loss, Reduced body weight ic developmental abnormalities e mechanism or mode of action may not be rele- ns.
		Species: Rat Application Re	al Toxicity: LOAEL: 18 mg/kg body weight
Repression	oductive toxicity - As- nent	fertility, based	ce of adverse effects on sexual function and on animal experiments., Some evidence of ts on development, based on animal experi-

#### STOT - single exposure

Not classified based on available information.

### 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.

### Components:

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

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

### Disodium EDTA, dihydrate:

Exposure routes

: inhalation (dust/mist/fume)



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	et Organs ssment		ct ce significant health effects in animals at con- 0.02 to 0.2 mg/l/6h/d.
Repe	ated dose toxicity		
Com	ponents:		
Cellu	lose:		
Spec		: Rat	
NOA		: >= 9,000 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
II			
			nethylammonium] sulphate:
Rema	arks	: No data availabl	e
Citric	acid:		
Spec	ies	: Rat	
NOA		: 4,000 mg/kg	
LOAE		: 8,000 mg/kg	
	cation Route sure time	: Ingestion : 10 Days	
	sure time	. 10 Days	
Diso	dium EDTA, dihydrat	<b>e</b> :	
Spec		: Rat	
NOA		: 500 mg/kg	
	cation Route sure time	: Ingestion : 13 Weeks	
Rema			rom similar materials
Spec	ioc	· Pot	
LOAE		: Rat : 0.03 mg/l	
	cation Route	: inhalation (dust/	mist/fume)
Expo	sure time	: 4 Weeks	
Rema	arks	: Based on data f	rom similar materials
Desl	oratadine:		
Spec		: Rat	
LOAE		: 30 mg/kg	
	cation Route	: Oral	
	sure time	: 3 Months	
Targe Rema	et Organs	: Kidney	ty observed in testing
1761116			or mode of action may not be relevant in
II		humans.	
Spec		: Monkey	
NOA		: 6 mg/kg	
LOAE		: 12 mg/kg	
	cation Route sure time	: Oral : 3 Months	
Exbo		. 3 1011018	



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Targe Symp	et Organs otoms		ntral nervous strointestinal	
	EL cation Route sure time	: 40 : Ora : 17	Months	dverse effects were reported
	EL cation Route sure time	: 6 n : Ora : 3 N	Ionths	disturbance, Fatigue
-	r <b>ation toxicity</b> lassified based on ava	ilable info	rmation.	
-	rience with human ex	cposure		
		-	• • • •	nethylammonium] sulphate: ause irritation of respiratory tract.
Eye c	contact	: Re	marks: May i	rritate eyes.
Inges	tion		: Symptoms: central nervous system effects, tachycardia tation	
Desid	oratadine:			
Inhala	ation	: Re	: Remarks: May cause respiratory tract irritation.	
Eye c	contact	: Sy	mptoms: Eye	irritation
Inges	tion			mouth, muscle pain, Fatigue, Drowsiness, Iful menstration

### 12. ECOLOGICAL INFORMATION

Ecotoxicity		
Components:		
Cellulose:		
Toxicity to fish :	:	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials
<b>Citric acid:</b> Toxicity to fish :	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h



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IL					
	Toxicity to daphnia and other aquatic invertebrates		: EC50 (Daphnia magna (Water flea)): 1,535 mg/l Exposure time: 24 h		
Disodi	um EDTA, dihydrate:				
Toxicit	Toxicity to fish		Exposure time: 96	acrochirus (Bluegill sunfish)): 159 mg/l 5 h on data from similar materials	
			EC50 (Daphnia magna (Water flea)): 140 mg/l Exposure time: 48 h Remarks: Based on data from similar materials		
Toxicit plants	y to algae/aquatic	:	Exposure time: 72	mus subspicatus (green algae)): > 100 mg/l ? h on data from similar materials	
			Exposure time: 72	smus subspicatus (green algae)): 100 mg/l ? h on data from similar materials	
	y to fish (Chronic tox-	:		o (zebra fish)): 25.7 mg/l	
icity)			Exposure time: 35 Method: OECD Te Remarks: Based of		
aquatio	y to daphnia and other c invertebrates (Chron-	:	Exposure time: 21	nagna (Water flea)): 25 mg/l d on data from similar materials	
ic toxic	• •				
Toxicit	y to microorganisms	:	EC50: < 500 mg/l Exposure time: 0.3 Method: OECD Te Remarks: Based of		
	atadine:				
11	y to fish	:	LC50 (Lepomis m Exposure time: 96 Method: FDA 4.11		
	y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: FDA 4.08		
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te		
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te		



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	Toxicity icity)	r to fish (Chronic tox-	:	NOEC (Pimephales promelas (fathead minnow)): 0.12 mg/l Exposure time: 32 d Method: OECD Test Guideline 210	
Toxicity to daphnia and aquatic invertebrates ( ic toxicity)		invertebrates (Chron-	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50 (Natural mic Exposure time: 3 I Test Type: Respir Method: OECD Te	ation inhibition
				NOEC (Natural mi Exposure time: 3 I Test Type: Respir Method: OECD Te	ation inhibition
	Persist	ence and degradabili	ty		
	<u>Compo</u>	onents:			
	<b>Cellulo</b> Biodegi	<b>se:</b> radability	:	Result: Readily bio	odegradable.
Í	Citric a	cid:			
	Biodegi	radability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: OECD Te	7 %
ſ	Disodiu	um EDTA, dihydrate:			
	Biodegi	radability	:	Result: Inherently Biodegradation: 8 Exposure time: 28 Remarks: Based of	0 - 90 %
Ű	Deslora	atadine:			
l	Biodegi	radability	:	Result: Not readily Biodegradation: 6 Exposure time: 28 Method: OECD Te	7.4 % d
				Result: Not readily Biodegradation: 0 Exposure time: 28 Method: FDA 3.11	% d
	Stability	/ in water	:	Hydrolysis: < 10 % Method: FDA 3.09	



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Bioaccumulative potential							
Com	ponents:						
Bis[[	 Bis[[S-(R*,R*)]-(β-hydroxy-α-methylphenethyl)methylammonium] sulphate:						
Partit	ion coefficient: n- nol/water	:	log Pow: 0.89				
Citric	c acid:						
	ion coefficient: n- nol/water	:	log Pow: -1.72				
Diso	dium EDTA, dihydrate	:					
Bioad	ccumulation	:	Bioconcentration	s macrochirus (Bluegill sunfish) factor (BCF): 1.8 on data from similar materials			
	ion coefficient: n- ol/water	:	log Pow: -4.3				
Partit	oratadine: ion coefficient: n- ol/water	:	log Pow: 1.24 Method: OECD T	Test Guideline 107			
II Mobi	lity in soil						
Com	ponents:						
Desle	oratadine:						
Distri	bution among environ- al compartments	:		Test Guideline 106			
	rdous to the ozone lay	/er					
	<b>r adverse effects</b> ata available						
13. DISPO	OSAL CONSIDERATIO	NS					
Disp	osal methods						
-	e from residues	:	Dispose of in acc	cordance with local regulations.			
	aminated packaging	:	Empty container dling site for recy	s should be taken to an approved waste han- cling or disposal. specified: Dispose of as unused product.			

### 14. TRANSPORT INFORMATION

### **International Regulations**

UNRTDG

Not regulated as a dangerous good

#### IATA-DGR Not regulated as a dangerous good



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### 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.

#### **National Regulations**

Refer to section 15 for specific national regulation.

#### **15. REGULATORY INFORMATION**

#### **Related Regulations**

#### Fire Service Law

Not applicable to dangerous materials / designated flammables.

#### Chemical Substance Control Law

Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

#### Industrial Safety and Health Law

#### Harmful Substances Prohibited from Manufacture

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### **Substances Prevented From Impairment of Health**

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

# Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Not applicable

### Substances Subject to be Indicated Names

Not applicable

### **Ordinance on Prevention of Hazards Due to Specified Chemical Substances** Not applicable

#### Ordinance on Prevention of Lead Poisoning

Not applicable

### Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

### Ordinance on Prevention of Organic Solvent Poisoning Not applicable



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Subs	tances)	e Industrial Safety and	I Health Law - Attached table 1 (Dangerous				
	lot applicable						
Poiso Not a	bl Law						
viron	-	mation, etc. of Release Amounts of Specific Chemical Substances in the En- d Promotion of Improvements to the Management Thereof					
-	Pressure Gas Safet	y Act					
•	Explosive Control Law Not applicable						
	Vessel Safety Law Not regulated as a dangerous good						
	Aviation Law Not regulated as a dangerous good						
Marir	Marine Pollution and Sea Disaster Prevention etc Law						
Bulk t	ransportation	: Noxious liquid s	substance(Category Z)				
Pack	transportation	: Not classified a	s marine pollutant				
Narco	Narcotics and Psychotropics Control Act						
Narco	Narcotic or Psychotropic Raw Material (Export / Import Permission) Not applicable						
•	Specific Narcotic or Psychotropic Raw Material (Export / Import permission) Not applicable						
	Waste Disposal and Public Cleansing Law Industrial waste						
The c	The components of this product are reported in the following inventories:						
AICS	-	: not determined	-				
DSL		: not determined					
	С	: not determined					

### Further information

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

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.



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Date format		: yyyy/mm/dd		
Full text of other abbrevia		ions		
ACGIH		: USA. ACGIH T	USA. ACGIH Threshold Limit Values (TLV)	
ACGIH / TWA		: 8-hour, time-we	eighted average	

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

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

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