

## **Desloratadine Liquid Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
3.0	06.04.2024	778694-00020	Date of first issue: 23.06.2016

### **SECTION 1: Identification of the substance/mixture and of the company/undertaking**

1.1	Product identifier Trade name	:	Desloratadine Liquid Formulation
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	Organon & Co. 30 Hudson Street, 33nd floor 07302 Jersey City, New Jersey, U.S.A
	Telephone	:	+1-551-430-6000
	E-mail address of person responsible for the SDS	:	EHSSTEWARD@organon.com

### **1.4 Emergency telephone number**

+1-215-631-6999

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

### 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Desloratadine	100643-71-8	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361fd Aquatic Chronic 2; H411	>= 0,025 - < 0,1

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Protection of first-aiders	:	No special precautions are necessary for first aid responders.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
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 if symptoms occur. Rinse mouth thoroughly with water.

### **4.2 Most important symptoms and effects, both acute and delayed** None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.



according to Regulation (EC) No. 1907/2006, as amended to Commission Regulation (EU) 2020/878

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### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.

### 5.2 Special hazards arising from the substance or mixture

5.2 Opeerar nazarus arising rom	un	
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
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.

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material.
		For large spills, provide dyking or other appropriate contain-
		ment to keep material from spreading. If dyked material can

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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		Clean up rema bent. Local or nation posal of this ma employed in the mine which reg Sections 13 an	bre recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. d 15 of this SDS provide information regarding national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## **SECTION 7: Handling and storage**

7.1 Precautions for safe handling					
Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.				
Local/Total ventilation	Use only with adequate ventilation.				
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment				
	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 contami- nated clothing before re-use.				
7.2 Conditions for safe storage, in	cluding any incompatibilities				
Requirements for storage areas and containers	: Keep in properly labelled containers. Store in accordance with the particular national regulations.				
Advice on common storage	: Do not store with the following product types: Strong oxidizing agents Gases				
7.3 Specific end use(s)					
Specific use(s)	No data available				

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

## Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	57-55-6	TWA	25 ppm 79 mg/m3	FOR-2011- 12-06-1358

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Deslo	oratadine	100643-71- 8	TWA	20 µg/m3 (OEB 3)	Internal	ĺ
			Wipe limit	200 µg/100 cm <sup>2</sup>	Internal	1

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Propylene glycol	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
	Workers	Inhalation	Long-term systemic effects	168 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	10 mg/m3
	Consumers	Inhalation	Long-term systemic effects	50 mg/m3

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Propylene glycol	Fresh water	260 mg/l
	Freshwater - intermittent	183 mg/l
	Marine water	26 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg dry
		weight (d.w.)
	Marine sediment	57,2 mg/kg dry
		weight (d.w.)
	Soil	50 mg/kg dry
		weight (d.w.)

### 8.2 Exposure controls

### Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

#### Personal protective equipment

Eye/face protection	:	Wear the following personal protective equipment: Safety glasses Equipment should conform to NS EN 166
Hand protection		
Remarks Skin and body protection Respiratory protection		Wash hands before breaks and at the end of workday. Skin should be washed after contact. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to NS EN 143
Filter type	:	Particulates type (P)

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Physica	al state	:	liquid	
	Colour		:	clear	
	Odour		:	sweet	
	Odour <sup>-</sup>	Threshold	:	No data available	<b>)</b>
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	)
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	No data available	
	Viscosi <sup>.</sup> Visc	ty osity, dynamic	:	No data available	9
	Visc	osity, kinematic	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Relative	e vapour density	:	No data available	

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	cle characteristics article size	: No data avail	able
	<b>information</b> osives	: Not explosive	5
·	zing properties		ce or mixture is not classified as oxidizing.
Evap	oration rate	: No data avai	lable
Mole	cular weight	: No data avai	lable

## **SECTION 10: Stability and reactivity**

10.1 Reactivity	
Not classified as a reactivity	hazard.
10.2 Chemical stability	
Stable under normal conditio	ns.
10.3 Possibility of hazardous re	actions
Hazardous reactions	: Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: None known.
10.5 Incompatible materials	
Materials to avoid	: Oxidizing agents
10.6 Hazardous decomposition	products
No hazardous decompositior	n products are known.
SECTION 11: Toxicological i	nformation
11.1 Information on hazard clas	ses as defined in Regulation (EC) No 1272/2008
Information on likely routes of exposure	of : Inhalation Skin contact Ingestion Eye contact

### Acute toxicity

Not classified based on available information.

### **Components:**

### **Desloratadine:**

Acute oral toxicity

: LD50 (Rat): > 549 mg/kg

LD50 (Mouse): 353 mg/kg

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			LD50 (Monkey): > Symptoms: Vomit Remarks: No mor	
Not o	corrosion/irritation classified based on avai ponents:	lable	information.	
	oratadine: sies	:	Rabbit No skin irritation	
Not o	ous eye damage/eye ir classified based on avai ponents:			
	<b>oratadine:</b> ties	:	Rabbit Severe eye irritati	ion
Resp	piratory or skin sensiti	isatio	on	
-	sensitisation	lable	information.	
-	<b>biratory sensitisation</b> classified based on avai	lable	information.	
Com	ponents:			
Test	sure routes sies		Maximisation Tes Dermal Guinea pig negative	st
	n cell mutagenicity classified based on avai	lable	information.	
<u>Com</u>	ponents:			
	oratadine: otoxicity in vitro	:	Test Type: Bacter Result: negative	rial reverse mutation assay (AMES)
			Test Type: Chron Test system: Hun Result: negative	nosomal aberration nan lymphocytes

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Geno	Genotoxicity in vivo		: Test Type: Micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Oral Result: negative			
Carci	nogenicity					
Not cl	assified based on availa	able	information.			
Comp	oonents:					
	oratadine:					
	cation Route sure time	:	Mouse Oral 2 Years negative			
LOAE Resul	cation Route :L t t Organs			eight om similar materials or mode of action may not be relevant in hu-		
Not cl	oductive toxicity assified based on availa conents:	able	information.			
Desid	pratadine:					
Effect	s on fertility	:	Symptoms: Redu Result: positive	ie :: Oral 12 mg/kg body weight		
			Test Type: Fertilit Species: Rat, ferr Fertility: NOAEL: Symptoms: No ef Result: negative	ale 3 mg/kg body weight		
Effect ment	s on foetal develop-	:	Species: Rabbit Application Route	oxicity: NOAEL: 30 mg/kg body weight		

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		Species: Rat Application R Development Symptoms: P Result: Speci	al Toxicity: LOAEL: 9 mg/kg body weight reimplantation loss, Reduced body weight fic developmental abnormalities e mechanism or mode of action may not be rele-
		Species: Rat Application R Development	wo-generation study oute: Oral al Toxicity: LOAEL: 18 mg/kg body weight lverse effects
	roductive toxicity - As- ment	fertility, based	ce of adverse effects on sexual function and d on animal experiments., Some evidence of ets on development, based on animal experi-
Repo <u>Com</u>	classified based on avail eated dose toxicity nponents:	able information.	
Spec LOA Appl Expo Targ			xicity observed in testing sm or mode of action may not be relevant in hu-
Expo Targ	EL	: Monkey : 6 mg/kg : 12 mg/kg : Oral : 3 Months : Central nervo : Gastrointestin	bus system nal disturbance
		: Monkey : 40 mg/kg : Oral : 17 Months	

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Rema	rks	: No significan	t adverse effects were reported
Specie NOAE Applic Expos Symp	EL cation Route sure time	: Monkey : 6 mg/kg : Oral : 3 Months : Gastrointesti	nal disturbance, Fatigue

### Aspiration toxicity

Not classified based on available information.

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Experience with human exposure

### **Components:**

### **Desloratadine:**

Inhalation	: Remarks: May cause respiratory tract irritation.
Eye contact	: Symptoms: Eye irritation
Eye contact Ingestion	: Symptoms: dry mouth, muscle pain, Fatigue, Drowsiness, sore throat, painful menstration

### **SECTION 12: Ecological information**

### 12.1 Toxicity

### Components:

## Desloratadine:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 9,2 mg/l Exposure time: 96 h Method: FDA 4.11
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 9,6 mg/l Exposure time: 48 h Method: FDA 4.08
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 1,6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

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Toxicity to microorganisms		:	mg/l Exposure time: 7 Method: OECD T EC50 (Natural m Exposure time: 3 Test Type: Respi Method: OECD T	est Guideline 201 icroorganism): 53,7 mg/l h ration inhibition est Guideline 209
			Exposure time: 3 Test Type: Respi	
Tox icity	icity to fish (Chronic tox- )	:		
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)		Exposure time: 2 Species: Daphnia	
12.2 Per	sistence and degradabil	ity		

### Components:

Components:

Desloratadine:		
Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 67,4 % Exposure time: 28 d Method: OECD Test Guideline 314
		Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: FDA 3.11
Stability in water	:	Hydrolysis: < 10 % at 50 °C(5 d) Method: FDA 3.09

## 12.3 Bioaccumulative potential

### Components:

Desloratadine:		
Partition coefficient: n- octanol/water	:	log Pow: 1,24 Method: OECD Test Guideline 107

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### 12.4 Mobility in soil

### Components:

### **Desloratadine:**

Distribution among environ-	:	log Koc: 3,00
mental compartments		Method: OECD Test Guideline 106

### 12.5 Results of PBT and vPvB assessment

### Product:

Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
	0.1% or nigner.

### **12.6 Endocrine disrupting properties**

### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> </ul>
Contaminated packaging	<ul> <li>Do not dispose of waste into sewer.</li> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good

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14.2 UN p	roper shipping name				
ADN		: Not regulated as a dangerous good			
ADR		: Not regulated as a dangerous good			
RID		: Not regulated as a dangerous good			
IMDG	;	: Not regulated as a dangerous good			
ΙΑΤΑ		: Not regulated as a dangerous good			
14.3 Tran	sport hazard class(es				
ADN		: Not regulated as a dangerous good			
ADR		: Not regulated as a dangerous good			
RID		: Not regulated as a dangerous good			
IMDG	<b>i</b>	: Not regulated as a dangerous good			
ΙΑΤΑ		: Not regulated as a dangerous good			
14.4 Pack	ing group				
ADN		: Not regulated as a dangerous good			
ADR		: Not regulated as a dangerous good			
RID		: Not regulated as a dangerous good			
IMDG	ì	: Not regulated as a dangerous good			
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good			
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good			
	<b>14.5 Environmental hazards</b> Not regulated as a dangerous good				
-	<b>ial precautions for u</b> pplicable	r			
14.7 Marit	time transport in bulk	ccording to IMO instruments			
Rema	arks	: Not applicable for product as supplied.			

### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on	: Conditions of restriction for the fol-
the market and use of certain dangerous substances,	lowing entries should be considered:
mixtures and articles (Annex XVII)	Number on list 75
	Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the condi- tions in corresponding Regulation to

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				determine whether an entry is appli- cable to the placing on the market or not. If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High			jh :	Not applicable
	Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation			Not applicable
	(Annex XIV)			
•	Regulation (EC) No 1005/2009 on substances that de-			Not applicable
	the ozone layer	on persistent organic p	ollu- :	Not applicable
•	(recast)	on persistent organic p	ulu	
Regu ment of da	Regulation (ÉU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals			Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

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

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: Other information**

Other information :	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.			
Full text of H-Statements				
H318 : H361fd :	Harmful if swallowed. Causes serious eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects.			
Full text of other abbreviations				
Acute Tox.:Aquatic Chronic:Eye Dam.:Repr.:FOR-2011-12-06-1358:	Acute toxicity Long-term (chronic) aquatic hazard Serious eye damage Reproductive toxicity Norway. Occupational Exposure limits			



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FOR-2011-12-06-1358 / : Long term exposure limit TWA

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### **Further information**

compile the Safety Data Sheet

Sources of key data used to : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, 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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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# **Desloratadine Liquid Formulation**

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