

according to Regulation (EC) No. 1907/2006

# **Montelukast Granules Formulation**

Version 2.15	Revision Date: 23.03.2020	SDS Number: 22997-00018	Date of last issue: 13.09.2019 Date of first issue: 17.10.2014				
SECTION	SECTION 1: Identification of the substance/mixture and of the company/undertaking						
1.1 Produc	ct identifier						

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Pharmaceutical
stance/Mixture		

#### 1.3 Details of the supplier of the safety data sheet

Company	:	Organon & Co. Shotton Lane NE23 3JU Cramlington NU - Great Britain
Telephone	:	44 1 670 59 30 00
E-mail address of person responsible for the SDS	:	EHSSTEWARD@organon.com

## **1.4 Emergency telephone number**

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)

Not a hazardous substance or mixture.

## 2.3 Other hazards

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

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

## 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No.	Classification	Concentration (% w/w)
	Registration number		

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Montel	lukast	151767-02-1	Eye Irrit. 2; H319	>= 0.1 - < 1
For ex	planation of abbrevia	ations see section 16.	· · · · ·	

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

4.1 Description of 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.			
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. Get medical attention if symptoms occur.			
In case of eye contact	:	If in eyes, rinse well with water. 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	nd e	effects, both acute and delayed			
Risks	:	Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.			
4.3 Indication of any immediate m	neo	dical attention and special treatment needed			
Treatment	:	Treat symptomatically and supportively.			

## **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

Specific hazards during fire- : Avoid generating dust; fine dust dispersed in air in sufficient



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fighting			potential dust exp	nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
5.3 Advice for firefighters		for firefighters			
	Specia for firef	l protective equipment ighters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do

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

6.1 Personal precautions, protect	tive equipment and emergency procedures
Personal precautions	: Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions	
Environmental precautions	<ul> <li>Discharge into the environment must be avoided.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>
6.3 Methods and material for cor	ntainment and cleaning up
Methods for cleaning up	<ul> <li>Sweep up or vacuum up spillage and collect in suitable container for disposal.</li> <li>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).</li> <li>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.</li> <li>Sections 13 and 15 of this SDS provide information regarding</li> </ul>

6.4 Reference to other sections

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

certain local or national requirements.

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

# 7.1 Precautions for safe handling

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust.
		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
		Minimize dust generation and accumulation.
		Keep container closed when not in use.
		Keep away from heat and sources of ignition.
		Take precautionary measures against static discharges.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures		If exposure to chemical is likely during typical use, provide eye
riggiene mediaties	•	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.
		The effective operation of a facility should include review of
		engineering controls, proper personal protective equipment,
		appropriate degowning and decontamination procedures,
		industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage, i	incl	luding any incompatibilities
Requirements for storage	:	Keep in properly labelled containers. Store in accordance with
areas and containers		the particular national regulations.
Advise on common storage		Do not store with the following product types:
Advice on common storage	•	Do not store with the following product types: Strong oxidizing agents
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
Montelukast	151767-02- 1	TWA	40 µg/m3 (OEB 3)	Internal
		Wipe limit	400 µg/100 cm <sup>2</sup>	Internal

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#### 8.2 Exposure controls

## 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

Eye protection :	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection	
Material :	Chemical-resistant gloves
Remarks : Skin and body protection :	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection :	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 BS EN 143 Particulates type (P)
Filter type :	railiculates type (r)

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

#### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder No data available No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.

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		explosion limit / Upper bility limit	:	No data available	
	Lower explosion limit / Lower flammability limit		:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	)
	Relative	e density	:	No data available	9
	Density	,	:	No data available	)
	Partitio octanol	er solubility n coefficient: n-	:	No data available No data available No data available	
	Decom	position temperature	:	No data available	9
		osity, kinematic	:	No data available	
		ve properties ng properties	:	Not explosive The substance o	r mixture is not classified as oxidizing.
9.2		formation			
	Flamma	ability (liquids)	:	No data available	
	Molecu	lar weight	:	No data available	
	Particle	size	:	No data available	9

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

<b>10.1 Reactivity</b> Not classified as a reactivity	y hazard.
<b>10.2 Chemical stability</b> Stable under normal conditi	ions.
<b>10.3 Possibility of hazardous</b> I Hazardous reactions	reactions : May form explosive dust-air mixture during processing, han-
	dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks.



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			Avoid dust form	nation.
	npatible materials rials to avoid	:	Oxidizing agen	ts
	rdous decompositior azardous decompositio	•		
	11: Toxicological			
	mation on toxicologic			
Inforn expos	nation on likely routes o sure	of :	Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> lassified based on avai	lable	information.	
Com	oonents:			
Mont	elukast:			
Acute	oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
			LD50 (Mouse):	> 5,000 mg/kg
Acute	inhalation toxicity	:	Remarks: No da	ata available
Acute	e dermal toxicity	:	Remarks: No da	ata available
	corrosion/irritation lassified based on avai	lable	information.	
Com	oonents:			
Mont	elukast:			
Speci Resul		:	Rabbit Mild skin irritatio	n
	us eye damage/eye ir lassified based on avai			
<u>Com</u>	oonents:			
Mont	elukast:			
Speci Resu		:	Rabbit Severe irritation	





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Respi	iratory or skin sensi	tisation			
	sensitisation assified based on ava	ilable information.			
•	iratory sensitisation assified based on ava	ilable information.			
Comp	oonents:				
<b>Monte</b> Rema	<b>elukast:</b> rks	: No data avail	able		
	cell mutagenicity assified based on ava	ailable information.			
Produ	uct:				
	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive		
			vitro mammalian cell gene mutation test Chinese hamster fibroblasts ive		
			nromosomal aberration Chinese hamster ovary cells ive		
			kaline elution assay rat hepatocytes ive		
Genot	toxicity in vivo	: Test Type: Cl Species: Mou Cell type: Bor Application R Result: negat	ne marrow oute: Oral		
Comp	oonents:				
Monte	elukast:				
	toxicity in vitro	: Test Type: Ba Result: negat	acterial reverse mutation assay (AMES) ive		
			vitro mammalian cell gene mutation test Chinese hamster fibroblasts ive		
			nromosomal aberration Chinese hamster ovary cells ive		
			kaline elution assay rat hepatocytes		

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		Result: negat	ive
Geno	toxicity in vivo	: Test Type: Cl Species: Mou Cell type: Bor Application R Result: negat	ne marrow oute: Oral
	n <b>ogenicity</b> lassified based on ava	ailable information.	
Prod	uct:		
Speci Applie	ies cation Route	: Rat : Oral	
Expo Dose Resu		: 2 Years : 200 mg/kg bc : negative	dy weight
Speci Applie	ies cation Route	: Mouse : Oral	
	sure time	: 92 weeks	
Dose Resu		: 100 mg/kg bc : negative	dy weight
<u>Com</u>	ponents:		
Mont	elukast:		
Speci		: Rat	
	cation Route sure time	: Oral : 2 Years	
Resu		: negative	
Speci	ies	: Mouse	
	cation Route	: Oral	
Expo: Resu	sure time It	: 92 weeks : negative	
•	oductive toxicity lassified based on ava	ailable information.	
Prod	uct:		
Effect	ts on fertility		male
		Test Type: Fe Species: Rat,	female
			oute: Oral EL Parent: 200 mg/kg body weight educed fertility

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ponents.						
elukast:						
ts on fertility	Species: Rat, i Application Ro Fertility: NOAE Result: Animal Test Type: Fer Species: Rat, f Application Ro Fertility: LOAE Symptoms: Re Test Type: Fer Species: Rat, f Application Ro	Test Type: Fertility Species: Rat, male Application Route: Oral Fertility: NOAEL: 800 mg/kg body weight Result: Animal testing did not show any effects on fertility. Test Type: Fertility Species: Rat, female Application Route: Oral Fertility: LOAEL: 200 mg/kg body weight Symptoms: Reduced fertility Test Type: Fertility Species: Rat, female Application Route: Oral				
	ailable information.					
	23.03.2020	23.03.2020 22997-00018 Donents: elukast: ts on fertility : Test Type: Fer Species: Rat, n Application Ro Fertility: NOAE Result: Animal Test Type: Fer Species: Rat, f Application Ro Fertility: LOAE Symptoms: Re Test Type: Fer Species: Rat, f Application Ro Fertility: NOAE Symptoms: Re				

# STOT - repeated exposure

Not classified based on available information.

#### **Repeated dose toxicity**

## Components:

### Montelukast:

Species NOAEL Application Route Exposure time Remarks	:	Monkey, male and female 150 - 300 mg/kg Oral 53 Weeks No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	:	Rat 50 mg/kg Oral 53 Weeks No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	:	Mouse 50 mg/kg Oral 14 Weeks No significant adverse effects were reported

## Aspiration toxicity

Not classified based on available information.





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Expe	rience with human e	xposure			
Prod	uct:				
Eye c	Skin contact Eye contact Ingestion		Remarks: May irritate skin. Symptoms: Severe irritation Symptoms: upper respiratory tract infection, pharyngitis, Headache, Cough, Abdominal pain, Diarrhoea, Fever		
	ponents:				
Skin o	elukast: contact contact stion	: Sy : Sy	mptoms: Se	irritate skin. vere irritation per respiratory tract infection, pharyngitis, ugh, Abdominal pain, Diarrhoea, Fever	

## **SECTION 12: Ecological information**

# 12.1 Toxicity

Components:		
Montelukast:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 0.0778 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 0.0675 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
		EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms	:	EC50 : > 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0.073 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow)

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				est Guideline 210 icity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)			NOEC: 0.23 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Remarks: No toxicity at the limit of solubility	
12.2 Pers	sistence and degradabil	lity		
Com	<u>iponents:</u>			
	i <b>telukast:</b> legradability	:	Result: not rapidl Biodegradation: Exposure time: 2	0 %
Stab	ility in water	: Hyd		(21.7 h)
12.3 Bioa	12.3 Bioaccumulative potential			
Com	nponents:			
Parti	i <b>telukast:</b> ition coefficient: n- nol/water	: log Pow: > 4.3		
	<b>bility in soil</b> lata available			
	ults of PBT and vPvB as relevant	sse	ssment	
	<b>er adverse effects</b> lata available			
SECTION 13: Disposal considerations				
13.1 Waste treatment methods				
Proc		:	According to the are not product s	ordance with local regulations. European Waste Catalogue, Waste Codes pecific, but application specific. buld be assigned by the user, preferably in
Cont	taminated packaging	:	discussion with th Empty containers dling site for recy	ne waste disposal authorities. s should be taken to an approved waste han-





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## **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

## 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : 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 the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
of dangerous chemicals		

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
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- DSL : not determined
- IECSC : not determined

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### 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 H319	:	Causes serious eye irritation.
Full text of other abbreviation Eye Irrit.	ons :	Eye irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

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

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



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The information 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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