### SUMMARY OF PRODUCT CHARACTERISTICS

## 1. NAME OF THE MEDICINAL PRODUCT

Singulair® 10 mg film-coated tablets

## 2. QUALITATIVE AND QUANTITATIVE COMPOSITION

One film-coated tablet contains montelukast sodium, which is equivalent to 10 mg montelukast.

### **Excipients with known effect:**

This medicinal product contains 89,3 mg lactose monohydrate per tablet.

For the full list of excipients, see section 6.1.

### 3. PHARMACEUTICAL FORM

Film-coated tablet.

Beige, rounded square, film-coated, with SINGULAIR engraved on one side and MSD 117 on the other.

### 4. CLINICAL PARTICULARS

### 4.1 Therapeutic indications

Singulair is indicated in the treatment of asthma as add-on therapy in those patients with mild to moderate persistent asthma who are inadequately controlled on inhaled corticosteroids and in whom "as-needed" short acting  $\beta$ -agonists provide inadequate clinical control of asthma. In those asthmatic patients in whom Singulair is indicated in asthma, Singulair can also provide symptomatic relief of seasonal allergic rhinitis.

Singulair is also indicated in the prophylaxis of asthma in which the predominant component is

exercise-induced bronchoconstriction.

# 4.2 Posology and method of administration

### **Posology**

The recommended dose for adults and adolescents 15 years of age and older with asthma, or with asthma and concomitant seasonal allergic rhinitis, is one 10 mg tablet daily to be taken in the evening.

### General recommendations

The therapeutic effect of Singulair on parameters of asthma control occurs within one day. Singulair may be taken with or without food. Patients should be advised to continue taking Singulair even if their asthma is under control, as well as during periods of worsening asthma. Singulair should not be used concomitantly with other products containing the same active ingredient, montelukast.

No dosage adjustment is necessary for the elderly, or for patients with renal insufficiency or mild to moderate hepatic impairment. There are no data on patients with severe hepatic impairment. The dosage is the same for both male and female patients.

### Therapy with Singulair in relation to other treatments for asthma

Singulair can be added to a patient's existing treatment regimen.

Inhaled corticosteroids: Treatment with Singulair can be used as add-on therapy in patients when inhaled corticosteroids plus "as needed" short acting  $\beta$ -agonists provide inadequate clinical control. Singulair should not be abruptly substituted for inhaled corticosteroids (see section 4.4).

## Paediatric population

Do not give Singulair 10 mg film-coated tablets to children less than 15 years of age. The safety and efficacy of Singulair 10 mg film-coated tablets in children less than 15 years has not been established.

5 mg chewable tablets are available for paediatric patients 6 to 14 years of age.

4 mg chewable tablets are available for paediatric patients 2 to 5 years of age.

4 mg granules are available for paediatric patients 6 months to 5 years of age.

# Method of administration

Oral use.

### 4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

### 4.4 Special warnings and precautions for use

Patients should be advised never to use oral montelukast to treat acute asthma attacks and to keep their usual appropriate rescue medication for this purpose readily available. If an acute attack occurs, a short-acting inhaled  $\beta$ -agonist should be used. Patients should seek their doctors' advice as soon as possible if they need more inhalations of short-acting  $\beta$ -agonists than usual.

Montelukast should not be substituted abruptly for inhaled or oral corticosteroids.

There are no data demonstrating that oral corticosteroids can be reduced when montelukast is

given concomitantly.

In rare cases, patients on therapy with anti-asthma agents including montelukast may present with systemic eosinophilia, sometimes presenting with clinical features of vasculitis consistent with Churg-Strauss syndrome, a condition which is often treated with systemic corticosteroid therapy. These cases have been sometimes associated with the reduction or withdrawal of oral corticosteroid therapy. Although a causal relationship with leukotriene receptor antagonism has not been established, physicians should be alert to eosinophilia, vasculitic rash, worsening pulmonary symptoms, cardiac complications and/or neuropathy presenting in their patients. Patients who develop these symptoms should be reassessed and their treatment regimens

Treatment with montelukast does not alter the need for patients with aspirin-sensitive asthma to avoid taking aspirin and other non-steroidal anti-inflammatory drugs.

Neuropsychiatric events such as behavioural changes, depression and suicidality have been reported in all age groups taking montelukast (see section 4.8). The symptoms may be serious and continue if the treatment is not withdrawn. Therefore, the treatment with montelukast should be discontinued if neuropsychiatric symptoms occur during treatment.

Advise patients and/or caregivers to be alert for neuropsychiatric events and instruct them to notify their physician if these changes in behaviour occur.

Lactose

evaluated.

Patients with rare hereditary problems of galactose intolerance, total lactase deficiency or

glucose galactose malabsorption should not take this medicine.

Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per tablet, that is to say essentially 'sodium-free'.

4.5 Interactions with other medicinal products and other forms of interaction

Montelukast may be administered with other therapies routinely used in the prophylaxis and chronic treatment of asthma. In drug-interactions studies, the recommended clinical dose of montelukast did not have clinically important effects on the pharmacokinetics of the following medicinal products: theophylline, prednisone, prednisolone, oral contraceptives (ethinyl estradiol/norethindrone 35/1), terfenadine, digoxin and warfarin.

The area under the plasma concentration curve (AUC) for montelukast was decreased approximately 40 % in subjects with co-administration of phenobarbital. Since montelukast is metabolised by CYP 3A4, 2C8 and 2C9, caution should be exercised, particularly in children, when montelukast is co-administered with inducers of CYP 3A4, 2C8 and 2C9 such as phenytoin, phenobarbital and rifampicin.

In vitro studies have shown that montelukast is a potent inhibitor of CYP 2C8. However, data from a clinical drug-drug interaction study involving montelukast and rosiglitazone (a probe substrate representative of medicinal products primarily metabolised by CYP 2C8) demonstrated that montelukast does not inhibit CYP 2C8 in vivo. Therefore, montelukast is not anticipated to markedly alter the metabolism of medicinal products metabolised by this enzyme (e.g. paclitaxel, rosiglitazone and repaglinide).

In vitro studies have shown that montelukast is a substrate of CYP 2C8, and to a less significant extent, of 2C9 and 3A4. In a clinical drug-drug interaction study involving montelukast and gemfibrozil (an inhibitor of both CYP 2C8 and 2C9) gemfibrozil increased the systemic exposure of montelukast by 4,4-fold. No routine dosage adjustment of montelukast is required upon co-administration with gemfibrozil or other potent inhibitors of CYP 2C8, but the physician should be aware of the potential for an increase in adverse reactions.

Based on *in vitro* data, clinically important drug interactions with less potent inhibitors of CYP 2C8 (e.g. trimethoprim) are not anticipated. Co-administration of montelukast with itraconazole, a strong inhibitor of CYP 3A4, resulted in no significant increase in the systemic exposure of montelukast.

# 4.6 Fertility, pregnancy and lactation

## <u>Pregnancy</u>

Animal studies do not indicate harmful effects with respect to effects on pregnancy or embryonal/foetal development.

Available data from published prospective and retrospective cohort studies with montelukast use in pregnant women evaluating major birth defects have not established a drug-associated risk. Available studies have methodologic limitations, including small sample size, in some cases retrospective data collection, and inconsistent comparator groups.

Singulair may be used during pregnancy only if it is considered to be clearly essential.

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

## <u>Breastfeeding</u>

Studies in rats have shown that montelukast is excreted in milk (see section 5.3). It is unknown whether montelukast/metabolites are excreted in human milk.

Singulair may be used in breastfeeding only if it is considered to be clearly essential.

## 4.7 Effects on ability to drive and use machines

Singulair has no or negligible influence on the ability to drive and use machines. However, individuals have reported drowsiness or dizziness.

#### 4.8 Undesirable effects

Montelukast has been evaluated in clinical studies as follows:

- 10 mg film-coated tablets in approximately 4 000 adult and adolescent asthmatic patients 15 years of age and older.
- 10 mg film-coated tablets in approximately 400 adult and adolescent asthmatic patients with seasonal allergic rhinitis 15 years of age and older.
- 5 mg chewable tablets in approximately 1 750 paediatric asthmatic patients 6 to 14 years of age.

The following drug-related adverse reactions in clinical studies were reported commonly (≥ 1/100 to < 1/10) in asthmatic patients treated with montelukast and at a greater incidence than in patients treated with placebo:

Body System Class	Adult	and	Adolescent	Paediatric	Patients	6	to	14
Body System Class	Patients	15 years	s and older	years old				

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

	(two 12-week studies;	(one 8-week study; n=201)			
	n=795)	(two 56-week studies;			
		n=615)			
Nervous system disorders	headache	headache			
Gastrointestinal disorders	abdominal pain				

With prolonged treatment in clinical trials with a limited number of patients for up to 2 years for adults, and up to 12 months for paediatric patients 6 to 14 years of age, the safety profile did not change.

# <u>Tabulated list of Adverse Reactions</u>

Adverse reactions reported in post-marketing use are listed, by System Organ Class and specific Adverse Reactions, in the table below. Frequency Categories were estimated based on relevant clinical trials.

System Organ Class	Adverse Reactions	Frequency Category*
Infections and infestations	upper respiratory infection <sup>†</sup>	Very Common
Blood and lymphatic system	increased bleeding tendency	Rare
disorders	thrombocytopenia	Very Rare
Immune system disorders	hypersensitivity reactions including anaphylaxis	Uncommon
	hepatic eosinophilic infiltration	Very Rare
Psychiatric disorders	dream abnormalities including nightmares, insomnia, somnambulism, anxiety, agitation	Uncommon

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

ncluding aggressive behaviour or	
including aggreeone penamear en	
nostility, depression, psychomotor	
nyperactivity (including irritability,	
restlessness, tremor <sup>§</sup> )	
disturbance in attention, memory	Rare
mpairment, tic	
nallucinations, disorientation,	Very Rare
suicidal thinking and behaviour	
(suicidality), obsessive-	
compulsive symptoms,	
dysphemia	
dizziness, drowsiness,	Uncommon
paraesthesia/hypoesthesia,	
seizure	
palpitations	Rare
epistaxis	Uncommon
Churg-Strauss Syndrome (CSS)	Very Rare
(see section 4.4)	
oulmonary eosinophilia	Very Rare
diarrhoea <sup>‡</sup> , nausea <sup>‡</sup> , vomiting <sup>‡</sup>	Common
dry mouth, dyspepsia	Uncommon
elevated levels of serum	Common
transaminases (ALT, AST)	
nepatitis (including cholestatic,	Very Rare
	yperactivity (including irritability, estlessness, tremor®) listurbance in attention, memory inpairment, tic allucinations, disorientation, uicidal thinking and behaviour suicidality), obsessive-ompulsive symptoms, lysphemia lizziness, drowsiness, eraesthesia/hypoesthesia, eizure alpitations pistaxis Churg-Strauss Syndrome (CSS) see section 4.4) aulmonary eosinophilia liarrhoea‡, nausea‡, vomiting‡ lry mouth, dyspepsia elevated levels of serum ransaminases (ALT, AST)

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

	hepatocellular and mixed-pattern liver injury).	
Skin and subcutaneous tissue	rash <sup>‡</sup>	Common
disorders	bruising, urticaria, pruritus	Uncommon
	angioedema	Rare
	erythema nodosum, erythema	Very Rare
	multiforme	
Musculoskeletal and	arthralgia, myalgia including	Uncommon
connective tissue disorders	muscle cramps	
Renal and urinary disorders	enuresis in children	Uncommon
General disorders and	pyrexia <sup>‡</sup>	Common
administration site conditions	asthenia/fatigue, malaise,	Uncommon
	oedema	

\*Frequency Category: Defined for each Adverse Reaction by the incidence reported in the clinical trials data base: Very Common (≥ 1/10), Common (≥ 1/100 to < 1/10), Uncommon (≥ 1/1 000 to < 1/100), Rare (≥ 1/10 000 to < 1/1 000), Very Rare (< 1/10 000).

<sup>†</sup>This adverse experience, reported as Very Common in the patients who received montelukast, was also reported as Very Common in the patients who received placebo in clinical trials.

<sup>‡</sup>This adverse experience, reported as Common in the patients who received montelukast, was also reported as Common in the patients who received placebo in clinical trials.

§Frequency Category: Rare

## Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important.

It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare

Page 10 of 21

professionals are asked to report any suspected adverse reactions.

4.9 Overdose

In chronic asthma studies, montelukast has been administered at doses up to 200 mg/day to

adult patients for 22 weeks and in short term studies, up to 900 mg/day to patients for

approximately one week without clinically important adverse experiences.

There have been reports of acute overdose in post-marketing experience and clinical studies

with montelukast. These include reports in adults and children with a dose as high as 1 000 mg

(approximately 61 mg/kg in a 42 month old child). The clinical and laboratory findings observed

were consistent with the safety profile in adults and paediatric patients. There were no adverse

experiences in the majority of overdose reports.

Symptoms of overdose

The most frequently occurring adverse experiences were consistent with the safety profile of

montelukast and included abdominal pain, somnolence, thirst, headache, vomiting and

psychomotor hyperactivity.

Management of overdose

No specific information is available on the treatment of overdose with montelukast. It is not

known whether montelukast is dialysable by peritoneal- or haemodialysis.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Leukotriene receptor antagonist

ATC-code: R03D C03

Mechanism of action

The cysteinyl leukotrienes (LTC<sub>4</sub>, LTD<sub>4</sub>, LTE<sub>4</sub>) are potent inflammatory eicosanoids released

from various cells including mast cells and eosinophils. These important pro-asthmatic mediators

bind to cysteinyl leukotriene (CysLT) receptors. The CysLT type-1 (CysLT<sub>1</sub>) receptor is found in

the human airway (including airway smooth muscle cells and airway macrophages) and on other

pro-inflammatory cells (including eosinophils and certain myeloid stem cells). CysLTs have been

correlated with the pathophysiology of asthma and allergic rhinitis. In asthma, leukotriene-

mediated effects include bronchoconstriction, mucous secretion, vascular permeability and

eosinophil recruitment. In allergic rhinitis, CysLTs are released from the nasal mucosa after

allergen exposure during both early- and late-phase reactions and are associated with symptoms

of allergic rhinitis. Intranasal challenge with CysLTs has been shown to increase nasal airway

resistance and symptoms of nasal obstruction.

Pharmacodynamic effects

Montelukast is an orally active compound which binds with high affinity and selectivity to the

CysLT<sub>1</sub> receptor. In clinical studies, montelukast inhibits bronchoconstriction due to inhaled LTD<sub>4</sub>

at doses as low as 5 mg. Bronchodilation was observed within 2 hours of oral administration.

The bronchodilation effect caused by a β-agonist was additive to that caused by montelukast.

Treatment with montelukast inhibited both early- and late-phase bronchoconstriction due to

antigen challenge. Montelukast, compared with placebo, decreased peripheral blood eosinophils

in adult and paediatric patients. In a separate study, treatment with montelukast significantly

decreased eosinophils in the airways (as measured in sputum) and in peripheral blood while

improving clinical asthma control.

# Clinical efficacy and safety

In studies in adults, montelukast, 10 mg once daily, compared with placebo, demonstrated significant improvements in morning FEV<sub>1</sub> (10,4 % vs. 2,7 % change from baseline), AM peak expiratory flow rate (PEFR) (24,5 l/min vs. 3,3 l/min change from baseline) and significant decrease in total  $\beta$ -agonist use (-26,1 % vs. -4,6 % change from baseline). Improvement in patient-reported daytime and night-time asthma symptoms scores was significantly better than placebo.

Studies in adults demonstrated the ability of montelukast to add to the clinical effect of inhaled corticosteroid (% change from baseline for inhaled beclomethasone plus montelukast vs. beclomethasone, respectively for FEV<sub>1</sub>: 5,43 % vs. 1,04 %;  $\beta$ -agonist use: -8,70 % vs. 2,64 %). Compared with inhaled beclomethasone (200  $\mu$ g twice daily with a spacer device), montelukast demonstrated a more rapid initial response, although over the 12-week study, beclomethasone provided a greater average treatment effect (% change from baseline for montelukast vs. beclomethasone, respectively for FEV<sub>1</sub>: 7,49 % vs. 13,3 %;  $\beta$ -agonist use: -28,28 % vs. -43,89 %). However, compared with beclomethasone, a high percentage of patients treated with montelukast achieved similar clinical responses (e.g. 50 % of patients treated with beclomethasone achieved an improvement in FEV<sub>1</sub> of approximately 11 % or more over baseline while approximately 42 % of patients treated with montelukast achieved the same response).

A clinical study was conducted to evaluate montelukast for the symptomatic treatment of seasonal allergic rhinitis in adult and adolescent asthmatic patients 15 years of age and older with concomitant seasonal allergic rhinitis. In this study, montelukast 10 mg tablets administered once daily demonstrated a statistically significant improvement in the Daily Rhinitis Symptoms

score, compared with placebo. The Daily Rhinitis Symptoms score is the average of the Daytime Nasal Symptoms score (mean of nasal congestion, rhinorrhoea, sneezing, nasal itching) and the Night-time Symptoms score (mean of nasal congestion upon awakening, difficulty going to sleep and night-time awakenings scores). Global evaluations of allergic rhinitis by patients and physicians were significantly improved, compared with placebo. The evaluation of asthma efficacy was not a primary objective in this study.

In an 8-week study in paediatric patients 6 to 14 years of age, montelukast 5 mg once daily, compared with placebo, significantly improved respiratory function (FEV<sub>1</sub> 8,71 % vs. 4,16 % change from baseline; AM PEFR 27,9 l/min vs. 17,8 l/min change from baseline) and decreased "as-needed"  $\beta$ -agonist use (-11,7 % vs. +8,2 % change from baseline).

Significant reduction of exercise-induced bronchoconstriction (EIB) was demonstrated in a 12-week study in adults (maximal fall in FEV<sub>1</sub> 22,33 % for montelukast vs. 32,40 % for placebo; time to recovery to within 5 % of baseline FEV<sub>1</sub> 44,22 min vs. 60,64 min). This effect was consistent throughout the 12-week study period. Reduction in EIB was also demonstrated in a short-term study in paediatric patients (maximal fall in FEV<sub>1</sub> 18,27 % vs. 26,11 %; time to recovery to within 5 % of baseline FEV<sub>1</sub> 17,76 min vs. 27,98 min). The effect in both studies was demonstrated at the end of the once-daily dosing interval.

In aspirin-sensitive asthmatic patients receiving concomitant inhaled and/or oral corticosteroids, treatment with montelukast, compared with placebo, resulted in significant improvement in asthma control (FEV<sub>1</sub> 8,55 % vs. -1,74 % change from baseline and decrease in total  $\beta$ -agonist use -27,78 % vs. 2,09 % change from baseline).

# 5.2 Pharmacokinetic properties

### Absorption

Montelukast is rapidly absorbed following oral administration. For the 10 mg film-coated tablet, the mean peak plasma concentration ( $C_{max}$ ) is achieved 3 hours ( $T_{max}$ ) after administration in adults in the fasted state. The mean oral bioavailability is 64 %. The oral bioavailability and  $C_{max}$  are not influenced by a standard meal. Safety and efficacy were demonstrated in clinical trials where the 10 mg film-coated tablet was administered without regard to the timing of food ingestion.

For the 5 mg chewable tablet, the  $C_{max}$  is achieved in 2 hours after administration in adults in the fasted state. The mean oral bioavailability is 73 % and is decreased to 63 % by a standard meal.

## **Distribution**

Montelukast is more than 99 % bound to plasma proteins. The steady-state volume of distribution of montelukast averages 8-11 litres. Studies in rats with radio-labelled montelukast indicate minimal distribution across the blood-brain barrier. In addition, concentrations of radio-labelled material at 24 hours post-dose were minimal in all other tissues.

### **Biotransformation**

Montelukast is extensively metabolised. In studies with therapeutic doses, plasma concentrations of metabolites of montelukast are undetectable at steady-state in adults and children.

Cytochrome P450 2C8 is the major enzyme in the metabolism of montelukast. Additionally, CYP 3A4 and 2C9 may have a minor contribution, although itraconazole, an inhibitor of CYP 3A4, was

shown not to change pharmacokinetic variables of montelukast in healthy subjects that received 10 mg montelukast daily. Based on *in vitro* results in human liver microsomes, therapeutic plasma concentrations of montelukast do not inhibit cytochromes P450 3A4, 2C9, 1A2, 2A6, 2C19 or 2D6. The contribution of metabolites to the therapeutic effect of montelukast is minimal.

**Elimination** 

The plasma clearance of montelukast averages 45 ml/min in healthy adults. Following an oral dose of radio-labelled montelukast, 86 % of the radioactivity was recovered in 5-day faecal collections and < 0,2 % was recovered in urine. Coupled with estimates of montelukast oral bioavailability, this indicates that montelukast and its metabolites are excreted almost exclusively via the bile.

**Characteristics in Patients** 

No dosage adjustment is necessary for the elderly or mild to moderate hepatic insufficiency. Studies in patients with renal impairment have not been undertaken. Because montelukast and its metabolites are eliminated by the biliary route, no dose adjustment is anticipated to be necessary in patients with renal impairment. There are no data on the pharmacokinetics of montelukast in patients with severe hepatic insufficiency (Child-Pugh score > 9).

With high doses of montelukast (20- and 60-fold the recommended adult dose), decrease in plasma theophylline concentration was observed. This effect was not seen at the recommended dose of 10 mg once daily.

5.3 Preclinical safety data

In animal toxicity studies, minor serum biochemical alterations in ALT, glucose, phosphorus and

triglycerides were observed which were transient in nature. The signs of toxicity in animals were increased excretion of saliva, gastrointestinal symptoms, loose stools and ion imbalance. These occurred at dosages which provided > 17-fold the systemic exposure seen at the clinical dosage. In monkeys, the adverse effects appeared at doses from 150 mg/kg/day (> 232-fold the systemic exposure seen at the clinical dose). In animal studies, montelukast did not affect fertility or reproductive performance at systemic exposure exceeding the clinical systemic exposure by greater than 24-fold. A slight decrease in pup body weight was noted in the female fertility study in rats at 200 mg/kg/day (> 69-fold the clinical systemic exposure). In studies in rabbits, a higher incidence of incomplete ossification, compared with concurrent control animals, was seen at systemic exposure > 24-fold the clinical systemic exposure seen at the clinical dose. No abnormalities were seen in rats. Montelukast has been shown to cross the placental barrier and is excreted in breast milk of animals.

No deaths occurred following a single oral administration of montelukast sodium at doses up to 5 000 mg/kg in mice and rats (15 000 mg/m<sup>2</sup> and 30 000 mg/m<sup>2</sup> in mice and rats, respectively), the maximum dose tested. This dose is equivalent to 25 000 times the recommended daily adult human dose (based on an adult patient weight of 50 kg).

Montelukast was determined not to be phototoxic in mice for UVA, UVB or visible light spectra at doses up to 500 mg/kg/day (approximately > 200-fold based on systemic exposure).

Montelukast was neither mutagenic in *in vitro* and *in vivo* tests nor tumorigenic in rodent species.

### 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Microcrystalline cellulose

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

Lactose monohydrate
Croscarmellose sodium
Hyprolose (E 463)
Magnesium stearate
Film coating:
Hypromellose
Hyprolose (E 463)
Titanium dioxide (E 171)
Red and yellow ferric oxide (E 172)
Carnauba wax
6.2 Incompatibilities
Not applicable.
6.3 Shelf-life
3 years.
6.4 Special precautions for storage
Store in the original package in order to protect from light and moisture.
Do not store above 30°C.

# 6.5 Nature and contents of container

Keep out of the reach and sight of children.

Packaged in polyamide/PVC/aluminium blister package in:

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

Blisters in packages of 7, 10, 14, 20, 28, 30, 50, 56, 84, 90, 98, 100, 140 and 200 tablets.

Blisters (unit doses), in packages of 49, 50 and 56 tablets.

Not all pack sizes may be marketed.

# 6.6 Special precautions for disposal

Any unused medicinal product or waste material should be disposed of in accordance with local requirements.

### 7. MARKETING AUTHORISATION HOLDER

Organon South Africa (Pty) Ltd

Spaces, 1st Floor, 22 Magwa Crescent, Gateway West

Waterfall City, Midrand, 2090

South Africa

### 8. NAME OF MANUFACTURER

Organon Pharma (UK) Limited

Shotton Lane, Cramlington

Northumberland NE23 3JU

UK

# 9. MARKETING AUTHORISATION NUMBER(S)

COUNTRY	
BOTSWANA	BOT1202260
ETHIOPIA	08084/08015/VAR/2022

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

KENYA	H2014/CTD1316/167
NAMIBIA	04/10.2.2/1158
NIGERIA (NAFDAC REG. NO.)	B4-0700
TANZANIA	TFDA0015/HM/0063/A7
UGANDA	TBA
ZAMBIA	TBA
ZIMBABWE	TBA

# **10. SCHEDULING STATUS**

POM R<sub>X</sub> ONLY

BOTSWANA SCHEDULING: S2

NAMIBIA SCHEDULING: NS2

ZIMBABWE SCHEDULING: TBA

# 11. DATE OF FIRST AUTHORISATION

COUNTRY	
BOTSWANA	24/01/2013
ETHIOPIA	01/11/2012
KENYA	03/04/2014
NAMIBIA	18/08/2004

Singulair® 10 mg film-coated tablets	PROFESSIONAL INFORMATION
Organon South Africa (Pty) Ltd	Date of Revision: 08 December 2023

NIGERIA	10/09/2013
TANZANIA	22/04/2016
UGANDA	TBA
ZAMBIA	TBA
ZIMBABWE	TBA

# 12. DATE OF REVISION OF THE TEXT

08 December 2023

RCN100003314, Var\_II\_FI/H/XXXX/WS/112\_PSUSA\_follow\_up\_00002087\_202107::

115248455\_Dependent Countries\_17JUL2023

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