SUMMARY OF PRODUCT CHARACTERISTICS,
LABELLING AND PACKAGE LEAFLET
SUMMARY OF PRODUCT CHARACTERISTICS
1. NAME OF THE MEDICINAL PRODUCT

Seretide Diskus 50 microgram/100 microgram/ dose inhalation powder, pre-dispensed.

Seretide Diskus 50 microgram/250 microgram/ dose inhalation powder, pre-dispensed.

Seretide Diskus 50 microgram/500 microgram/ dose inhalation powder, pre-dispensed.

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each single inhalation provides a delivered dose (the dose leaving the mouthpiece) of 47 micrograms of salmeterol (as salmeterol xinafoate) and 92, 231 or 460 micrograms of fluticasone propionate. This corresponds to a pre-dispensed dose of 50 micrograms of salmeterol (as salmeterol xinafoate) and 100, 250 or 500 micrograms fluticasone propionate.

Excipients with known effect:

Each delivered dose contains up to 12.5 mg of lactose (as monohydrate).

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Inhalation powder, pre-dispensed.

Moulded plastic device containing a foil strip with 28 or 60 regularly placed blisters.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Asthma

Seretide is indicated in the regular treatment of asthma where use of a combination product (long-acting $\beta_2$ agonist and inhaled corticosteroid) is appropriate:

- patients not adequately controlled with inhaled corticosteroids and ‘as needed’ inhaled short-acting $\beta_2$ agonist
  
or
- patients already adequately controlled on both inhaled corticosteroid and long-acting $\beta_2$ agonist.

Note: Seretide 50 microgram /100 microgram strength is not appropriate in adults and children with severe asthma.

Chronic Obstructive Pulmonary Disease (COPD)

Seretide is indicated for the symptomatic treatment of patients with COPD, with a FEV$_1$ $<$60% predicted normal (pre-bronchodilator) and a history of repeated exacerbations, who have significant symptoms despite regular bronchodilator therapy.
4.2 Posology and method of administration

Posology
Route of administration: Inhalation use.

Patients should be made aware that Seretide Diskus must be used daily for optimum benefit, even when asymptomatic.

Patients should be regularly reassessed by a doctor, so that the strength of Seretide they are receiving remains optimal and is only changed on medical advice. The dose should be titrated to the lowest dose at which effective control of symptoms is maintained. Where the control of symptoms is maintained with the lowest strength of the combination given twice daily then the next step could include a test of inhaled corticosteroid alone. As an alternative, patients requiring a long-acting β₂ agonist could be titrated to Seretide given once daily if, in the opinion of the prescriber, it would be adequate to maintain disease control. In the event of once daily dosing when the patient has a history of nocturnal symptoms the dose should be given at night and when the patient has a history of mainly daytime symptoms the dose should be given in the morning.

Patients should be given the strength of Seretide containing the appropriate fluticasone propionate dosage for the severity of their disease. If an individual patient should require dosages outside the recommended regimen, appropriate doses of β₂ agonist and/or corticosteroid should be prescribed.

Recommended Doses:

Asthma

Adults and adolescents 12 years and older:

- One inhalation of 50 micrograms salmeterol and 100 micrograms fluticasone propionate twice daily.
- One inhalation of 50 micrograms salmeterol and 250 micrograms fluticasone propionate twice daily.
- One inhalation of 50 micrograms salmeterol and 500 micrograms fluticasone propionate twice daily.

A short-term trial of Seretide may be considered as initial maintenance therapy in adults or adolescents with moderate persistent asthma (defined as patients with daily symptoms, daily rescue use and moderate to severe airflow limitation) for whom rapid control of asthma is essential. In these cases, the recommended initial dose is one inhalation of 50 micrograms salmeterol and 100 micrograms fluticasone propionate twice daily. Once control of asthma is attained treatment should be reviewed and consideration given as to whether patients should be stepped down to an inhaled corticosteroid alone. Regular review of patients as treatment is stepped down is important.

A clear benefit has not been shown as compared to inhaled fluticasone propionate alone used as initial maintenance therapy when one or two of the criteria of severity are missing. In general inhaled corticosteroids remain the first line treatment for most patients. Seretide is not intended for the initial management of mild asthma. Seretide 50 microgram/100 micrograms strength is not appropriate in adults and children with severe asthma; it is recommended to establish the appropriate dosage of inhaled corticosteroid before any fixed-combination can be used in patients with severe asthma.

Paediatric population

Children 4 years and older:
One inhalation of 50 micrograms salmeterol and 100 micrograms fluticasone propionate twice daily.

The maximum licensed dose of fluticasone propionate delivered by Seretide Diskus in children is 100 microgram twice daily.

There are no data available for use of Seretide in children aged under 4 years.

**COPD**

Adults:

One inhalation of 50 micrograms salmeterol and 100 micrograms fluticasone propionate twice daily.

*Special patient groups:*

There is no need to adjust the dose in elderly patients or in those with renal impairment. There are no data available for use of Seretide in patients with hepatic impairment.

Using the Diskus:

The device is opened and primed by sliding the lever. The mouthpiece is then placed in the mouth and the lips closed round it. The dose can then be inhaled and the device closed.

**4.3 Contraindications**

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

**4.4 Special warnings and precautions for use**

**Deterioration of disease**

Seretide Diskus should not be used to treat acute asthma symptoms for which a fast and short-acting bronchodilator is required. Patients should be advised to have their inhaler to be used for relief in an acute asthma attack available at all times.

Patients should not be initiated on Seretide during an exacerbation, or if they have significantly worsening or acutely deteriorating asthma.

Serious asthma-related adverse events and exacerbations may occur during treatment with Seretide. Patients should be asked to continue treatment but to seek medical advice if asthma symptoms remain uncontrolled or worsen after initiation on Seretide.

Increased requirements for use of reliever medication (short-acting bronchodilators), or decreased response to reliever medication indicate deterioration of control and patients should be reviewed by a physician.

Sudden and progressive deterioration in control of asthma is potentially life-threatening and the patient should undergo urgent medical assessment. Consideration should be given to increasing corticosteroid therapy.

Once asthma symptoms are controlled, consideration may be given to gradually reducing the dose of Seretide. Regular review of patients as treatment is stepped down is important. The lowest effective dose of Seretide should be used (see section 4.2).
For patients with COPD experiencing exacerbations, treatment with systemic corticosteroids is typically indicated, therefore patients should be instructed to seek medical attention if symptoms deteriorate with Seretide.

Treatment with Seretide should not be stopped abruptly in patients with asthma due to risk of exacerbation. Therapy should be down-titrated under physician supervision. For patients with COPD cessation of therapy may also be associated with symptomatic decompensation and should be supervised by a physician.

As with all inhaled medication containing corticosteroids, Seretide should be administered with caution in patients with active or quiescent pulmonary tuberculosis and fungal, viral or other infections of the airway. Appropriate treatment should be promptly instituted, if indicated.

**Cardiovascular effects**

Rarely, Seretide may cause cardiac arrhythmias e.g. supraventricular tachycardia, extrasystoles and atrial fibrillation, and a mild transient reduction in serum potassium at high therapeutic doses. Seretide should be used with caution in patients with severe cardiovascular disorders or heart rhythm abnormalities and in patients with diabetes mellitus, thyrotoxicosis, uncorrected hypokalaemia or patients predisposed to low levels of serum potassium.

**Hyperglycaemia**

There have been very rare reports of increases in blood glucose levels (see section 4.8) and this should be considered when prescribing to patients with a history of diabetes mellitus.

**Paradoxical bronchospasm**

As with other inhalation therapy paradoxical bronchospasm may occur with an immediate increase in wheezing and shortness of breath after dosing. Paradoxical bronchospasm responds to a rapid-acting bronchodilator and should be treated straightaway. Seretide Diskus should be discontinued immediately, the patient assessed and alternative therapy instituted if necessary.

The pharmacological side effects of β₂ agonist treatment, such as tremor, palpitations and headache, have been reported, but tend to be transient and reduce with regular therapy.

**Excipients**

Seretide contains lactose monohydrate up to 12.5 milligram /dose. This amount does not normally cause problems in lactose intolerant people. The excipient lactose contains small amounts of milk proteins, which may cause allergic reactions.

**Systemic corticosteroid effects**

Systemic effects may occur with any inhaled corticosteroid, particularly at high doses prescribed for long periods. These effects are much less likely to occur than with oral corticosteroids. Possible systemic effects include Cushing’s syndrome, Cushingoid features, adrenal suppression, decrease in bone mineral density, cataract and glaucoma and more rarely, a range of psychological or behavioural effects including psychomotor hyperactivity, sleep disorders, anxiety, depression or aggression (particularly in children) (see Paediatric population sub-heading below for information on the systemic effects of inhaled corticosteroids in children and adolescents). It is important, therefore, that the patient is reviewed regularly and the dose of inhaled corticosteroid is reduced to the lowest dose at which effective control of asthma is maintained.
Prolonged treatment of patients with high doses of inhaled corticosteroids may result in adrenal suppression and acute adrenal crisis. Very rare cases of adrenal suppression and acute adrenal crisis have also been described with doses of fluticasone propionate between 500 and less than 1000 micrograms. Situations, which could potentially trigger acute adrenal crisis include trauma, surgery, infection or any rapid reduction in dosage. Presenting symptoms are typically vague and may include anorexia, abdominal pain, weight loss, tiredness, headache, nausea, vomiting, hypotension, decreased level of consciousness, hypoglycaemia, and seizures. Additional systemic corticosteroid cover should be considered during periods of stress or elective surgery.

The benefits of inhaled fluticasone propionate therapy should minimise the need for oral steroids, but patients transferring from oral steroids may remain at risk of impaired adrenal reserve for a considerable time. Therefore these patients should be treated with special care and adrenocortical function regularly monitored. Patients who have required high dose emergency corticosteroid therapy in the past may also be at risk. This possibility of residual impairment should always be borne in mind in emergency and elective situations likely to produce stress, and appropriate corticosteroid treatment must be considered. The extent of the adrenal impairment may require specialist advice before elective procedures.

Ritonavir can greatly increase the concentration of fluticasone propionate in plasma. Therefore, concomitant use should be avoided, unless the potential benefit to the patient outweighs the risk of systemic corticosteroid side effects. There is also an increased risk of systemic side effects when combining fluticasone propionate with other potent CYP3A inhibitors (see section 4.5).

Pneumonia in patients with COPD

An increase in the incidence of pneumonia, including pneumonia requiring hospitalisation, has been observed in patients with COPD receiving inhaled corticosteroids. There is some evidence of an increased risk of pneumonia with increasing steroid dose but this has not been demonstrated conclusively across all studies. There is no conclusive clinical evidence for intra-class differences in the magnitude of the pneumonia risk among inhaled corticosteroid products.

Physicians should remain vigilant for the possible development of pneumonia in patients with COPD as the clinical features of such infections overlap with the symptoms of COPD exacerbations.

Risk factors for pneumonia in patients with COPD include current smoking, older age, low body mass index (BMI) and severe COPD.

Interactions with potent CYP3A4 inhibitors

Concomitant use of systemic ketoconazole significantly increases systemic exposure to salmeterol. This may lead to an increase in the incidence of systemic effects (e.g. prolongation in the QTc interval and palpitations). Concomitant treatment with ketoconazole or other potent CYP3A4 inhibitors should therefore be avoided unless the benefits outweigh the potentially increased risk of systemic side effects of salmeterol treatment (see section 4.5).

Visual disturbance

Visual disturbance may be reported with systemic and topical corticosteroid use. If a patient presents with symptoms such as blurred vision or other visual disturbances, the patient should be considered for referral to an ophthalmologist for evaluation of possible causes, which may include cataract, glaucoma or rare diseases such as central serous chorioretinopathy (CSCR) which have been reported after use of systemic and topical corticosteroids.

Paediatric Population

7
Children and adolescents <16 years taking high doses of fluticasone propionate (typically ≥ 1000 micrograms/day) may be at particular risk. Systemic effects may occur, particularly at high doses prescribed for long periods. Possible systemic effects include Cushing’s syndrome, Cushingoid features, adrenal suppression, acute adrenal crisis and growth retardation in children and adolescents and more rarely, a range of psychological or behavioural effects including psychomotor hyperactivity, sleep disorders, anxiety, depression or aggression. Consideration should be given to referring the child or adolescent to a paediatric respiratory specialist.

It is recommended that the height of children receiving prolonged treatment with inhaled corticosteroid is regularly monitored. The dose of inhaled corticosteroid should be reduced to the lowest dose at which effective control of asthma is maintained.

4.5 Interaction with other medicinal products and other forms of interaction

β adrenergic blockers may weaken or antagonise the effect of salmeterol. Both non-selective and selective β blockers should be avoided unless there are compelling reasons for their use. Potentially serious hypokalaemia may result from β2 agonist therapy. Particular caution is advised in acute severe asthma as this effect may be potentiated by concomitant treatment with xanthine derivatives, steroids and diuretics.

Concomitant use of other β adrenergic containing drugs can have a potentially additive effect.

Fluticasone Propionate

Under normal circumstances, low plasma concentrations of fluticasone propionate are achieved after inhaled dosing, due to extensive first pass metabolism and high systemic clearance mediated by cytochrome CYP3A4 in the gut and liver. Hence, clinically significant drug interactions mediated by fluticasone propionate are unlikely.

In an interaction study in healthy subjects with intranasal fluticasone propionate, ritonavir (a highly potent cytochrome CYP3A4 inhibitor) 100 mg b.i.d. increased the fluticasone propionate plasma concentrations several hundred fold, resulting in markedly reduced serum cortisol concentrations. Information about this interaction is lacking for inhaled fluticasone propionate, but a marked increase in fluticasone propionate plasma levels is expected. Cases of Cushing’s syndrome and adrenal suppression have been reported. The combination should be avoided unless the benefit outweighs the increased risk of systemic glucocorticoid side effects.

In a small study in healthy volunteers, the slightly less potent CYP3A inhibitor ketoconazole increased the exposure of fluticasone propionate after a single inhalation by 150%. This resulted in a greater reduction of plasma cortisol as compared with fluticasone propionate alone. Co-treatment with other potent CYP3A inhibitors, such as itraconazole and cobicistat-containing products, and moderate CYP3A inhibitors, such as erythromycin, is also expected to increase the systemic fluticasone propionate exposure and the risk of systemic side effects. Combinations should be avoided unless the benefit outweighs the potential increased risk of systemic corticosteroid side-effects, in which case patients should be monitored for systemic corticosteroid side-effects.

Salmeterol

Potent CYP3A4 inhibitors

Co-administration of ketoconazole (400 mg orally once daily) and salmeterol (50 micrograms inhaled twice daily) in 15 healthy subjects for 7 days resulted in a significant increase in plasma salmeterol exposure (1.4-fold Cmax and 15-fold AUC). This may lead to an increase in the incidence of other systemic effects of salmeterol treatment (e.g. prolongation of QTc interval and palpitations) compared with salmeterol or ketoconazole treatment alone (see section 4.4).
Clinically significant effects were not seen on blood pressure, heart rate, blood glucose and blood potassium levels. Co-administration with ketoconazole did not increase the elimination half-life of salmeterol or increase salmeterol accumulation with repeat dosing.

The concomitant administration of ketoconazole should be avoided, unless the benefits outweigh the potentially increased risk of systemic side effects of salmeterol treatment. There is likely to be a similar risk of interaction with other potent CYP3A4 inhibitors (e.g. itraconazole, telithromycin, ritonavir).

**Moderate CYP 3A4 inhibitors**

Co-administration of erythromycin (500 mg orally three times a day) and salmeterol (50 micrograms inhaled twice daily) in 15 healthy subjects for 6 days resulted in a small but non-statistically significant increase in salmeterol exposure (1.4-fold $C_{\text{max}}$ and 1.2-fold AUC). Co-administration with erythromycin was not associated with any serious adverse effects.

4.6  **Fertility, pregnancy and lactation**

**Fertility**

There are no data in humans. However, animal studies showed no effects of salmeterol or fluticasone propionate on fertility.

**Pregnancy**

A large amount of data on pregnant women (more than 1000 pregnancy outcomes) indicates no malformative or feto/neonatal toxicity related to Seretide. Animal studies have shown reproductive toxicity after administration of $\beta_2$ adrenoreceptor agonists and glucocorticosteroids (see section 5.3).

Administration of Seretide to pregnant women should only be considered if the expected benefit to the mother is greater than any possible risk to the fetus.

The lowest effective dose of fluticasone propionate needed to maintain adequate asthma control should be used in the treatment of pregnant women.

**Breastfeeding**

It is unknown whether salmeterol and fluticasone propionate/metabolites are excreted in human milk.

Studies have shown that salmeterol and fluticasone propionate, and their metabolites, are excreted into the milk of lactating rats.

A risk to breastfed newborns/infants cannot be excluded. A decision must be made whether to discontinue breastfeeding or to discontinue Seretide therapy taking into account the benefit of breastfeeding for the child and the benefit of therapy for the woman.

4.7  **Effects on ability to drive and use machines**

Seretide Diskus has no or negligible influence on the ability to drive and use machines.

4.8  **Undesirable effects**

As Seretide contains salmeterol and fluticasone propionate, the type and severity of adverse reactions associated with each of the compounds may be expected. There is no incidence of additional adverse events following concurrent administration of the two compounds.
Adverse events which have been associated with salmeterol/fluticasone propionate are given below, listed by system organ class and frequency. Frequencies are defined as: very common (≥1/10), common (≥1/100 to <1/10), uncommon (≥1/1000 to <1/100), rare (≥1/10,000 to <1/1000) and not known (cannot be estimated from the available data). Frequencies were derived from clinical trial data. The incidence in placebo was not taken into account.

<table>
<thead>
<tr>
<th>System Organ Class</th>
<th>Adverse Event</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infections &amp; Infestations</td>
<td>Candidiasis of the mouth and throat</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Pneumonia (in COPD patients)</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Bronchitis</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Oesophageal candidiasis</td>
<td>Rare</td>
</tr>
<tr>
<td>Immune System Disorders</td>
<td>Hypersensitivity reactions with the following manifestations:</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Cutaneous hypersensitivity reactions</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Angioedema (mainly facial and oropharyngeal oedema)</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Respiratory symptoms (dyspnoea)</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Respiratory symptoms (bronchospasm)</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Anaphylactic reactions including anaphylactic shock</td>
<td>Rare</td>
</tr>
<tr>
<td>Endocrine Disorders</td>
<td>Cushing’s syndrome, Cushingoid features, Adrenal suppression, Growth retardation in children and adolescents, Decreased bone mineral density</td>
<td>Rare</td>
</tr>
<tr>
<td>Metabolism &amp; Nutrition Disorders</td>
<td>Hypokalaemia</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Hyperglycaemia</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Psychiatric Disorders</td>
<td>Anxiety</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Sleep disorders</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Behavioural changes, including psychomotor hyperactivity and irritability (predominantly in children)</td>
<td>Not known</td>
</tr>
<tr>
<td></td>
<td>Depression, aggression (predominantly in children)</td>
<td>Not known</td>
</tr>
<tr>
<td>Nervous System Disorders</td>
<td>Headache</td>
<td>Very Common</td>
</tr>
<tr>
<td></td>
<td>Tremor</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Eye Disorders</td>
<td>Cataract</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Glaucoma</td>
<td>Rare</td>
</tr>
<tr>
<td>System Organ Class</td>
<td>Adverse Event</td>
<td>Frequency</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td></td>
<td>Vision, blurred</td>
<td>Not known⁴</td>
</tr>
<tr>
<td></td>
<td>Palpitations</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Tachycardia</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Cardiac arrhythmias (including supraventricular tachycardia and extrasystoles)</td>
<td>Rare</td>
</tr>
<tr>
<td></td>
<td>Atrial fibrillation</td>
<td>Uncommon</td>
</tr>
<tr>
<td></td>
<td>Angina pectoris</td>
<td>Uncommon</td>
</tr>
<tr>
<td>Cardiac Disorders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Respiratory, Thoracic &amp; Mediastinal Disorders</td>
<td>Nasopharyngitis</td>
<td>Very Common²³</td>
</tr>
<tr>
<td></td>
<td>Throat irritation</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Hoarseness/dysphonia</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Sinusitis</td>
<td>Common¹³</td>
</tr>
<tr>
<td></td>
<td>Paradoxical bronchospasm</td>
<td>Rare⁴</td>
</tr>
<tr>
<td>Skin and subcutaneous tissue disorders</td>
<td>Contusions</td>
<td>Common¹³</td>
</tr>
<tr>
<td>Musculoskeletal &amp; Connective Tissue Disorders</td>
<td>Muscle cramps</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Traumatic fractures</td>
<td>Common¹³</td>
</tr>
<tr>
<td></td>
<td>Arthralgia</td>
<td>Common</td>
</tr>
<tr>
<td></td>
<td>Myalgia</td>
<td>Common</td>
</tr>
</tbody>
</table>

1. Reported commonly in placebo
2. Reported very commonly in placebo
3. Reported over 3 years in a COPD study
4. See section 4.4
5. See section 5.1.

Description of selected adverse reactions

The pharmacological side effects of β₂ agonist treatment, such as tremor, palpitations and headache, have been reported, but tend to be transient and reduce with regular therapy.

As with other inhalation therapy paradoxical bronchospasm may occur with an immediate increase in wheezing and shortness of breath after dosing. Paradoxical bronchospasm responds to a rapid-acting bronchodilator and should be treated straightaway. Seretide Diskus should be discontinued immediately, the patient assessed and alternative therapy instituted if necessary.

Due to the fluticasone propionate component, hoarseness and candidiasis (thrush) of the mouth and throat and, rarely, of the oesophagus can occur in some patients. Both hoarseness and incidence of mouth and throat candidiasis may be relieved by rinsing the mouth with water and/or brushing the
teeth after using the product. Symptomatic mouth and throat candidiasis can be treated with topical anti-fungal therapy whilst still continuing with the Seretide Diskus.

Paediatric population

Possible systemic effects include Cushing’s syndrome, Cushingoid features, adrenal suppression and growth retardation in children and adolescents (see section 4.4). Children may also experience anxiety, sleep disorders and behavioural changes, including hyperactivity and irritability.

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 professionals are asked to report any suspected adverse reactions via the national reporting system listed below:

ADR Reporting
Website: www.medicinesauthority.gov.mt/adrportal

4.9 Overdose

There are no data available from clinical trials on overdose with Seretide, however data on overdose with both drugs are given below:

The signs and symptoms of salmeterol overdose are dizziness, increases in systolic blood pressure, tremor, headache and tachycardia. If Seretide therapy has to be withdrawn due to overdose of the β agonist component of the drug, provision of appropriate replacement steroid therapy should be considered. Additionally, hypokalaemia can occur and therefore serum potassium levels should be monitored. Potassium replacement should be considered.

**Acute:** Acute inhalation of fluticasone propionate doses in excess of those recommended may lead to temporary suppression of adrenal function. This does not need emergency action as adrenal function is recovered in a few days, as verified by plasma cortisol measurements.

**Chronic overdose of inhaled fluticasone propionate:** Adrenal reserve should be monitored and treatment with a systemic corticosteroid may be necessary. When stabilised, treatment should be continued with an inhaled corticosteroid at the recommended dose. Refer to section 4.4: risk of adrenal suppression.

In cases of both acute and chronic fluticasone propionate overdose Seretide therapy should be continued at a suitable dosage for symptom control.

5. **PHARMACOLOGICAL PROPERTIES**

5.1 Pharmacodynamic properties

Pharmacotherapeutic Group: Adrenergics in combination with corticosteroids or other drugs, excl. anticholinergics.

ATC Code: R03AK06

*Mechanism of action and pharmacodynamic effects:* Seretide contains salmeterol and fluticasone propionate which have differing modes of action.
The respective mechanisms of action of both drugs are discussed below.

**Salmeterol:**

Salmeterol is a selective long-acting (12 hour) \( \beta_2 \) adrenoceptor agonist with a long side chain which binds to the exo-site of the receptor.

Salmeterol produces a longer duration of bronchodilation, lasting for at least 12 hours, than recommended doses of conventional short-acting \( \beta_2 \) agonists.

**Fluticasone propionate:**

Fluticasone propionate given by inhalation at recommended doses has a glucocorticoid anti-inflammatory action within the lungs, resulting in reduced symptoms and exacerbations of asthma, with less adverse effects than when corticosteroids are administered systemically.

**Clinical efficacy and safety**

**Seretide Asthma clinical trials**

A twelve month study (Gaining Optimal Asthma Control, GOAL), in 3416 adult and adolescent patients with persistent asthma, compared the safety and efficacy of Seretide versus inhaled corticosteroid (Fluticasone Propionate) alone to determine whether the goals of asthma management were achievable. Treatment was stepped up every 12 weeks until **total control** was achieved or the highest dose of study drug was reached. GOAL showed more patients treated with Seretide achieved asthma control than patients treated with ICS alone and this control was attained at a lower corticosteroid dose.

*Well controlled* asthma was achieved more rapidly with Seretide than with ICS alone. The time on treatment for 50% of subjects to achieve a first individual *well controlled* week was 16 days for Seretide compared to 37 days for the ICS group. In the subset of steroid naive asthmatics the time to an individual *well controlled* week was 16 days in the Seretide treatment compared to 23 days following treatment with ICS.

The overall study results showed:

<table>
<thead>
<tr>
<th>Pre-Study Treatment</th>
<th>Salmeterol/FP WC</th>
<th>Salmeterol/FP TC</th>
<th>FP WC</th>
<th>FP TC</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ICS (SABA alone)</td>
<td>78%</td>
<td>50%</td>
<td>70%</td>
<td>40%</td>
</tr>
<tr>
<td>Low dose ICS (&lt;500 micrograms BDP or equivalent/day)</td>
<td>75%</td>
<td>44%</td>
<td>60%</td>
<td>28%</td>
</tr>
<tr>
<td>Medium dose ICS (&gt;500 to 1000 micrograms BDP or equivalent/day)</td>
<td>62%</td>
<td>29%</td>
<td>47%</td>
<td>16%</td>
</tr>
<tr>
<td>Pooled results across the 3 treatment levels</td>
<td>71%</td>
<td>41%</td>
<td>59%</td>
<td>28%</td>
</tr>
</tbody>
</table>

*Well controlled* asthma; less than or equal to 2 days with symptom score greater than 1 (symptom score 1 defined as ‘symptoms for one short period during the day’), SABA use on less than or equal to 2 days and less than or equal to 4 occasions/week, greater than or equal to 80% predicted morning peak expiratory flow, no night-time awakenings, no exacerbations and no side effects enforcing a change in therapy.

**Total control of asthma; no symptoms, no SABA use, greater than or equal to 80% predicted morning peak expiratory flow, no night-time awakenings, no exacerbations and no side effects enforcing a change in therapy.
The results of this study suggest that Seretide 50/100 micrograms bd may be considered as initial maintenance therapy in patients with moderate persistent asthma for whom rapid control of asthma is deemed essential (see section 4.2).

A double blind, randomised, parallel group study in 318 patients with persistent asthma aged ≥18 years evaluated the safety and tolerability of administering two inhalations twice daily (double dose) of Seretide for two weeks. The study showed that doubling the inhalations of each strength of Seretide for up to 14 days resulted in a small increase in β agonist-related adverse events (tremor: 1 patient [1%] vs 0, palpitations: 6 [3%] vs 1 [<1%], muscle cramps: 6[3%] vs 1 [<1%]) and a similar incidence of inhaled corticosteroid related adverse events (e.g. oral candidiasis: 6 [6%] vs 16 [8%], hoarseness: 2 [2%] vs 4 [2%]) compared to one inhalation twice daily. The small increase in β agonist-related adverse events should be taken into account if doubling the dose of Seretide is considered by the physician in adult patients requiring additional short-term (up to 14 days) inhaled corticosteroid therapy.

Seretide COPD clinical trials

TORCH was a 3-year study to assess the effect of treatment with Seretide Diskus 50/500 micrograms bd, salmeterol Diskus 50 micrograms bd, fluticasone propionate (FP) Diskus 500 micrograms bd or placebo on all-cause mortality in patients with COPD. COPD patients with a baseline (pre-bronchodilator) FEV₁ <60% of predicted normal were randomised to double-blind medication. During the study, patients were permitted usual COPD therapy with the exception of other inhaled corticosteroids, long-acting bronchodilators and long-term systemic corticosteroids. Survival status at 3 years was determined for all patients regardless of withdrawal from study medication. The primary endpoint was reduction in all cause mortality at 3 years for Seretide vs Placebo.

<table>
<thead>
<tr>
<th></th>
<th>Placebo N = 1524</th>
<th>Salmeterol 50 N = 1521</th>
<th>FP 500 N = 1534</th>
<th>Seretide 50/500 N = 1533</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of deaths (%)</td>
<td>231 (15.2%)</td>
<td>205 (13.5%)</td>
<td>246 (16.0%)</td>
<td>193 (12.6%)</td>
</tr>
<tr>
<td>Hazard Ratio vs Placebo (CIs) p value</td>
<td>N/A</td>
<td>0.879 (0.73, 1.06) 0.180</td>
<td>1.060 (0.89, 1.27) 0.525</td>
<td>0.825 (0.68, 1.00) 0.052</td>
</tr>
<tr>
<td>Hazard Ratio Seretide 50/500 vs components (CIs) p value</td>
<td>N/A</td>
<td>0.932 (0.77, 1.13) 0.481</td>
<td>0.774 (0.64, 0.93) 0.007</td>
<td>N/A</td>
</tr>
</tbody>
</table>

1. Non significant P value after adjustment for 2 interim analyses on the primary efficacy comparison from a log-rank analysis stratified by smoking status

There was a trend towards improved survival in subjects treated with Seretide compared with placebo over 3 years however this did not achieve the statistical significance level p≤0.05.

The percentage of patients who died within 3 years due to COPD-related causes was 6.0% for placebo, 6.1% for salmeterol, 6.9% for FP and 4.7% for Seretide.

The mean number of moderate to severe exacerbations per year was significantly reduced with Seretide as compared with treatment with salmeterol, FP and placebo (mean rate in the Seretide group 0.85 compared with 0.97 in the salmeterol group, 0.93 in the FP group and 1.13 in the placebo). This translates to a reduction in the rate of moderate to severe exacerbations of 25% (95% CI: 19% to 31%; p<0.001) compared with placebo, 12% compared with salmeterol (95% CI: 5% to 19%,
Health Related Quality of Life, as measured by the St George’s Respiratory Questionnaire (SGRQ) was improved by all active treatments in comparison with placebo. The average improvement over three years for Seretide compared with placebo was -3.1 units (95% CI: -4.1 to -2.1; p<0.001), compared with salmeterol was -2.2 units (p<0.001) and compared with FP was -1.2 units (p=0.017). A 4-unit decrease is considered clinically relevant.

The estimated 3-year probability of having pneumonia reported as an adverse event was 12.3% for placebo, 13.3% for salmeterol, 18.3% for FP and 19.6% for Seretide (Hazard ratio for Seretide vs placebo: 1.64, 95% CI: 1.33 to 2.01, p<0.001). There was no increase in pneumonia related deaths; deaths while on treatment that were adjudicated as primarily due to pneumonia were 7 for placebo, 9 for salmeterol, 13 for FP and 8 for Seretide. There was no significant difference in probability of bone fracture (5.1% placebo, 5.1% salmeterol, 5.4% FP and 6.3% Seretide; Hazard ratio for Seretide vs placebo: 1.22, 95% CI: 0.87 to 1.72, p=0.248).

Placebo-controlled clinical trials, over 6 and 12 months, have shown that regular use of Seretide 50/500 micrograms improves lung function and reduces breathlessness and the use of relief medication.

Studies SCO40043 and SCO100250 were randomised, double-blind, parallel-group, replicate studies comparing the effect of Seretide 50/250 micrograms bd (a dose not licensed for COPD treatment in the European Union) with salmeterol 50 micrograms bd on the annual rate of moderate/severe exacerbations in subjects with COPD with FEV₁ less than 50% predicted and a history of exacerbations. Moderate/ severe exacerbations were defined as worsening symptoms that required treatment with oral corticosteroids and/or antibiotics or in-patient hospitalisation.

The trials had a 4 week run-in period during which all subjects received open-label salmeterol/ FP 50/250 to standardize COPD pharmacotherapy and stabilise disease prior to randomisation to blinded study medication for 52 weeks. Subjects were randomised 1:1 to salmeterol/ FP 50/250 (total ITT n=776) or salmeterol (total ITT n=778). Prior to run-in, subjects discontinued use of previous COPD medications except short-acting bronchodilators. The use of concurrent inhaled long-acting bronchodilators (β₂ agonist and anticholinergic), ipratropium/salbutamol combination products, oral β₂ agonists, and theophylline preparations were not allowed during the treatment period. Oral corticosteroids and antibiotics were allowed for the acute treatment of COPD exacerbations with specific guidelines for use. Subjects used salbutamol on an as-needed basis throughout the studies.

The results of both studies showed that treatment with Seretide 50/250 resulted in a significantly lower annual rate of moderate/severe COPD exacerbations compared with salmeterol (SCO40043: 1.06 and 1.53 per subject per year, respectively, rate ratio of 0.70, 95% CI: 0.58 to 0.83, p<0.001; SCO100250: 1.10 and 1.59 per subject per year, respectively, rate ratio of 0.70, 95% CI: 0.58 to 0.83, p<0.001). Findings for the secondary efficacy measures (time to first moderate/severe exacerbation, the annual rate of exacerbations requiring oral corticosteroids, and pre-dose morning (AM) FEV₁) significantly favoured Seretide 50/250 micrograms bd over salmeterol. Adverse event profiles were similar with the exception of a higher incidence of pneumonias and known local side effects (candidiasis and dysphonia) in the Seretide 50/250 micrograms bd group compared with salmeterol. Pneumonia-related events were reported for 55 (7%) subjects in the Seretide 50/250 micrograms bd group and 25 (3%) in the salmeterol group. The increased incidence of reported pneumonia with Seretide 50/250 micrograms bd appears to be of similar magnitude to the incidence reported following treatment with Seretide 50/500 micrograms bd in TORCH.

**Asthma**

The Salmeterol Multi-center Asthma Research Trial (SMART)
The Salmeterol Multi-center Asthma Research Trial (SMART) was a 28-week US study that evaluated the safety of salmeterol compared to placebo added to usual therapy in adult and adolescent subjects. Although there were no significant differences in the primary endpoint of the combined number of respiratory-related deaths and respiratory-related life-threatening experiences, the study showed a significant increase in asthma-related deaths in patients receiving salmeterol (13 deaths out of 13,176 patients treated with salmeterol versus 3 deaths out of 13,179 patients on placebo). The study was not designed to assess the impact of concurrent inhaled corticosteroid use, and only 47% of subjects reported ICS use at baseline.

Safety and efficacy of salmeterol-FP versus FP alone in asthma

Two multi-centre 26-week studies were conducted to compare the safety and efficacy of salmeterol-FP versus FP alone, one in adult and adolescent subjects (AUSTRI trial), and the other in paediatric subjects 4-11 years of age (VESTRI trial). For both studies, enrolled subjects had moderate to severe persistent asthma with history of asthma-related hospitalisation or asthma exacerbation in the previous year. The primary objective of each study was to determine whether the addition of LABA to ICS therapy (salmeterol-FP) was non-inferior to ICS (FP) alone in terms of the risk of serious asthma related events (asthma-related hospitalisation, endotracheal intubation, and death). A secondary efficacy objective of these studies was to evaluate whether ICS/LABA (salmeterol-FP) was superior to ICS therapy alone (FP) in terms of severe asthma exacerbation (defined as deterioration of asthma requiring the use of systemic corticosteroids for at least 3 days or an in-patient hospitalisation or emergency department visit due to asthma that required systemic corticosteroids).

A total of 11,679 and 6,208 subjects were randomized and received treatment in the AUSTRI and VESTRI trials, respectively. For the primary safety endpoint, non-inferiority was achieved for both trials (see Table below).

<table>
<thead>
<tr>
<th>Serious Asthma-Related Events in the 26-Week AUSTRI and VESTRI Trials</th>
<th>AUSTRI</th>
<th>VESTRI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salmeterol-FP (n = 5,834)</td>
<td>FP Alone (n = 5,845)</td>
<td>Salmeterol-FP (n = 3,107)</td>
</tr>
<tr>
<td>Composite endpoint (Asthma-related hospitalisation, endotracheal intubation, or death)</td>
<td>34 (0.6%)</td>
<td>33 (0.6%)</td>
</tr>
<tr>
<td>Salmeterol-FP/FP Hazard ratio (95% CI)</td>
<td>1.029 (0.638-1.662) (^a)</td>
<td>1.285 (0.726-2.272) (^b)</td>
</tr>
<tr>
<td>Death</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Asthma-related hospitalisation</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>Endotracheal intubation</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

\(^a\) If the resulting upper 95% CI estimate for the relative risk was less than 2.0, then non-inferiority was concluded.

\(^b\) If the resulting upper 95% CI estimate for the relative risk was less than 2.675, then non-inferiority was concluded.

For the secondary efficacy endpoint, reduction in time to first asthma exacerbation for salmeterol-FP relative to FP was seen in both studies, however only AUSTRI met statistical significance.
<table>
<thead>
<tr>
<th></th>
<th>AUSTRI</th>
<th>VESTRI</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Salmeterol-FP (n = 5,834)</td>
<td>FP Alone (n = 5,845)</td>
</tr>
<tr>
<td>Number of subjects with an asthma exacerbation</td>
<td>480 (8%)</td>
<td>597 (10%)</td>
</tr>
<tr>
<td>Salmeterol-FP/FP Hazard ratio (95% CI)</td>
<td>0.787 (0.698, 0.888)</td>
<td></td>
</tr>
</tbody>
</table>

**Paediatric population:**

In trial SAM101667, in 158 children aged 6 to 16 years with symptomatic asthma, the combination of salmeterol/fluticasone propionate is equally efficacious to doubling the dose of fluticasone propionate regarding symptom control and lung function. This study was not designed to investigate the effect on exacerbations.

In a 12 week trial of children aged 4 to 11 years [n=257] treated with either salmeterol/fluticasone propionate 50/100 or salmeterol 50 micrograms + fluticasone propionate 100 micrograms both twice daily, both treatment arms experienced a 14% increase in peak expiratory flow rate as well as improvements in symptom score and rescue salbutamol use. There were no differences between the 2 treatment arms. There were no differences in safety parameters between the 2 treatment arms.

In a 12 week trial of children 4 to 11 years of age [n=203] randomized in a parallel-group study with persistent asthma and who were symptomatic on inhaled corticosteroid, safety was the primary objective. Children received either salmeterol/fluticasone propionate (50/100 micrograms) or fluticasone propionate (100 micrograms) alone twice daily. Two children on salmeterol/fluticasone propionate and 5 children on fluticasone propionate withdrew because of worsening asthma. After 12 weeks no children in either treatment arm had abnormally low 24 hour urinary cortisol excretion. There were no other differences in safety profile between the treatment arms.

**Fluticasone propionate containing medications in asthma during pregnancy**

An observational retrospective epidemiological cohort study utilising electronic health records from the United Kingdom was conducted to evaluate the risk of MCMs following first trimester exposure to inhaled FP alone and salmeterol-FP relative to non-FP containing ICS. No placebo comparator was included in this study.

Within the asthma cohort of 5362 first trimester ICS-exposed pregnancies, 131 diagnosed MCMs were identified; 1612 (30%) were exposed to FP or salmeterol-FP of which 42 diagnosed MCMs were identified. The adjusted odds ratio for MCMs diagnosed by 1 year was 1.1 (95%CI: 0.5 – 2.3) for FP exposed vs non-FP ICS exposed women with moderate asthma and 1.2 (95%CI: 0.7 – 2.0) for women with considerable to severe asthma. No difference in the risk of MCMs was identified following first trimester exposure to FP alone versus salmeterol-FP. Absolute risks of MCM across the asthma severity strata ranged from 2.0 to 2.9 per 100 FP-exposed pregnancies which is comparable to results from a study of 15,840 pregnancies unexposed to asthma therapies in the General Practice Research Database (2.8 MCM events per 100 pregnancies).

### 5.2 Pharmacokinetic properties

For pharmacokinetic purposes each component can be considered separately.

**Salmeterol:**

...
Salmeterol acts locally in the lung therefore plasma levels are not an indication of therapeutic effects. In addition there are only limited data available on the pharmacokinetics of salmeterol because of the technical difficulty of assaying the drug in plasma due to the low plasma concentrations at therapeutic doses (approximately 200 picogram/mL or less) achieved after inhaled dosing.

Fluticasone propionate:

The absolute bioavailability of a single dose of inhaled fluticasone propionate in healthy subjects varies between approximately 5 to 11% of the nominal dose depending on the inhalation device used. In patients with asthma or COPD a lesser degree of systemic exposure to inhaled fluticasone propionate has been observed.

Systemic absorption occurs mainly through the lungs and is initially rapid then prolonged. The remainder of the inhaled dose may be swallowed but contributes minimally to systemic exposure due to the low aqueous solubility and presystemic metabolism, resulting in oral availability of less than 1%. There is a linear increase in systemic exposure with increasing inhaled dose.

The disposition of fluticasone propionate is characterised by high plasma clearance (1150 mL/min), a large volume of distribution at steady-state (approximately 300 L) and a terminal half-life of approximately 8 hours.

Plasma protein binding is 91%.

Fluticasone propionate is cleared very rapidly from the systemic circulation. The main pathway is metabolism to an inactive carboxylic acid metabolite, by the cytochrome P450 enzyme CYP3A4. Other unidentified metabolites are also found in the faeces.

Systemic absorption occurs mainly through the lungs and is initially rapid then prolonged. The remainder of the inhaled dose may be swallowed but contributes minimally to systemic exposure due to the low aqueous solubility and presystemic metabolism, resulting in oral availability of less than 1%. There is a linear increase in systemic exposure with increasing inhaled dose.

The renal clearance of fluticasone propionate is negligible. Less than 5% of the dose is excreted in urine, mainly as metabolites. The main part of the dose is excreted in faeces as metabolites and unchanged drug.

Paediatric population

In a population pharmacokinetic analysis utilizing data from 9 controlled clinical trials with different devices (Diskus, metered dose inhaler) that included 350 patients with asthma aged 4 to 77 years (174 patients 4 to 11 years of age) higher fluticasone propionate systemic exposure following treatment with Seretide Diskus 50/100 compared to fluticasone propionate Diskus 100 were seen.

<table>
<thead>
<tr>
<th>Treatment (test vs. ref)</th>
<th>Population</th>
<th>AUC</th>
<th>$C_{\text{max}}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salmeterol/fluticasone propionate Diskus 50/100 fluticasone propionate Diskus 100</td>
<td>Children (4–11yr)</td>
<td>1.20 [1.06 – 1.37]</td>
<td>1.25 [1.11 – 1.41]</td>
</tr>
<tr>
<td></td>
<td>Adolescent/Adult (≥12yr)</td>
<td>1.52 [1.08 – 2.13]</td>
<td>1.52 [1.08 – 2.16]</td>
</tr>
</tbody>
</table>

The effect of 21 days of treatment with Seretide Inhaler 25/50 micrograms (2 inhalations twice daily with or without a spacer) or Seretide Diskus 50/100 micrograms (1 inhalation twice daily) was evaluated in 31 children aged 4 to 11 years with mild asthma. Systemic exposure to salmeterol was
similar for Seretide Inhaler, Seretide Inhaler with spacer, and Seretide Diskus (126 pg hr/mL [95% CI: 70, 225], 103 pg hr/mL [95% CI: 54, 200], and 110 pg hr/mL [95% CI: 55, 219], respectively). Systemic exposure to fluticasone propionate was similar for Seretide Inhaler with spacer (107 pg hr/mL [95% CI: 45.7, 252.2]) and Seretide Diskus (138 pg hr/mL [95% CI: 69.3, 273.2]), but lower for Seretide Inhaler (24 pg hr/mL [95% CI: 9.6, 60.2]).”

5.3 Preclinical safety data

The only safety concerns for human use derived from animal studies of salmeterol and fluticasone propionate given separately were effects associated with exaggerated pharmacological actions.

In animal reproduction studies, glucocorticosteroids have been shown to induce malformations (cleft palate, skeletal malformations). However, these animal experimental results do not seem to be relevant for man given recommended doses. Animal studies with salmeterol have shown embryofetal toxicity only at high exposure levels. Following co-administration, increased incidences of transposed umbilical artery and incomplete ossification of occipital bone were found in rats at doses associated with known glucocorticoid-induced abnormalities. Neither salmeterol xinafoate or fluticasone propionate have shown any potential for genetic toxicity.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Excipient: Lactose monohydrate (which contains milk proteins).

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

2 years.

6.4 Special precautions for storage

Do not store above 30°C.

6.5 Nature and contents of container

The inhalation powder is contained in blisters held on a formed PVC coated base, with a peelable foil laminate lid. The strip is contained in a moulded purple plastic device.

The plastic devices are available in cardboard containers, which hold

- 1 x 28 dose Diskus
- 1 x 60 dose Diskus
- 2 x 60 dose Diskus
- 3 x 60 dose Diskus
- 10 x 60 dose Diskus

Not all pack sizes may be marketed.

6.6 Special precautions for disposal and other handling
The Diskus releases a powder which is inhaled into the lungs. A dose indicator on the Diskus indicates the number of doses left. For detailed instructions for use see the Patient Information Leaflet.

7. MARKETING AUTHORISATION HOLDER

GlaxoSmithKline (Ireland) Ltd.
12 Riverwalk
Citywest Business Campus
Dublin 24
Ireland

8. MARKETING AUTHORISATION NUMBER(S)

<table>
<thead>
<tr>
<th>Product</th>
<th>MA Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seretide 100 Diskus</td>
<td>MA 192/00901</td>
</tr>
<tr>
<td>Seretide 250 Diskus</td>
<td>MA 192/00902</td>
</tr>
<tr>
<td>Seretide 500 Diskus</td>
<td>MA 192/00903</td>
</tr>
</tbody>
</table>

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 27th September 2005
Date of latest renewal: 23rd April 2010

10. DATE OF REVISION OF THE TEXT

22nd March 2018
LABELLING
<table>
<thead>
<tr>
<th>PARTICULARS TO APPEAR ON THE OUTER PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>OUTER CARTON</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1. NAME OF THE MEDICINAL PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seretide Diskus 50 microgram/100 microgram/ dose inhalation powder, pre-dispensed.</td>
</tr>
<tr>
<td>salmeterol/fluticasone propionate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. STATEMENT OF ACTIVE SUBSTANCE(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Each single inhalation provides a delivered dose (the dose leaving the mouthpiece) of 47 micrograms of salmeterol (as salmeterol xinafoate) and 92 micrograms of fluticasone propionate. This corresponds to a pre-dispensed dose of 50 micrograms of salmeterol (as salmeterol xinafoate) and 100 micrograms fluticasone propionate.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. LIST OF EXCIPIENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excipient: Lactose monohydrate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4. PHARMACEUTICAL FORM AND CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation powder, pre-dispensed</td>
</tr>
<tr>
<td>1 x 28 inhalations</td>
</tr>
<tr>
<td>2 x 60 inhalations</td>
</tr>
<tr>
<td>3 x 60 inhalations</td>
</tr>
<tr>
<td>10 x 60 inhalations</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. METHOD AND ROUTE(S) OF ADMINISTRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read the package leaflet carefully before use</td>
</tr>
<tr>
<td>Inhalation use</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep out of the sight and reach of children</td>
</tr>
</tbody>
</table>
### 7. OTHER SPECIAL WARNING(S), IF NECESSARY


### 8. EXPIRY DATE

EXP

### 9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C

### 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

### 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

GlaxoSmithKline (Ireland) Ltd.
12 Riverwalk
Citywest Business Campus
Dublin 24
Ireland

### 12. MARKETING AUTHORISATION NUMBER(S)

MA 192/00901

### 13. BATCH NUMBER

Lot

### 14. GENERAL CLASSIFICATION FOR SUPPLY


### 15. INSTRUCTIONS ON USE


### 16. INFORMATION IN BRAILLE


### 17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.
18. UNIQUE IDENTIFIER – HUMAN READABLE DATA

PC:
SN:
NN:
<table>
<thead>
<tr>
<th>MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISKUS LABEL</td>
</tr>
</tbody>
</table>

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   Seretide Diskus mite 50 µg/100 µg/ dose inhalation powder

   salmeterol/fluticasone propionate

   Inhalation use

2. **METHOD OF ADMINISTRATION**

   Read the package leaflet carefully before use

3. **EXPIRY DATE**

   EXP

4. **BATCH NUMBER**

   Lot

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   28 or 60 doses

6. **OTHER**
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Seretide Diskus 50 microgram/250 microgram/ dose inhalation powder, pre-dispensed.

salmeterol/fluticasone propionate

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each single inhalation provides a delivered dose (the dose leaving the mouthpiece) of 47 micrograms of salmeterol (as salmeterol xinafoate) and 231 micrograms of fluticasone propionate. This corresponds to a pre-dispensed dose of 50 micrograms of salmeterol (as salmeterol xinafoate) and 250 micrograms fluticasone propionate.

3. LIST OF EXCipients

Excipient: Lactose monohydrate

4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder, pre-dispensed

1 x 28 inhalations

1 x 60 inhalations

2 x 60 inhalations

3 x 60 inhalations

10 x 60 inhalations

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet carefully before use

Inhalation use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT

OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children
### 7. OTHER SPECIAL WARNING(S), IF NECESSARY

### 8. EXPIRY DATE

EXP

### 9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C

### 10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

### 11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

GlaxoSmithKline (Ireland) Ltd.
12 Riverwalk
Citywest Business Campus
Dublin 24
Ireland

### 12. MARKETING AUTHORISATION NUMBER(S)

MA 192/00902

### 13. BATCH NUMBER

Lot

### 14. GENERAL CLASSIFICATION FOR SUPPLY

### 15. INSTRUCTIONS ON USE

### 16. INFORMATION IN BRAILLE

2D barcode carrying the unique identifier included.

### 17. UNIQUE IDENTIFIER – 2D BARCODE

### 18. UNIQUE IDENTIFIER – HUMAN READABLE DATA

2D barcode carrying the unique identifier included.
MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

DISKUS LABEL

1. NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION

Seretide Diskus 50 µg/250 µg/ dose inhalation powder

salmeterol/fluticasone propionate

Inhalation use

2. METHOD OF ADMINISTRATION

Read the package leaflet carefully before use

3. EXPIRY DATE

EXP

4. BATCH NUMBER

Lot

5. CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT

28 or 60 doses

6. OTHER
PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Seretide Diskus forte 50 microgram/500 microgram/ dose inhalation powder, pre-dispensed.
salmeterol/fluticasone propionate

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each single inhalation provides a delivered dose (the dose leaving the mouthpiece) of 47 micrograms of salmeterol (as salmeterol xinafoate) and 460 micrograms of fluticasone propionate. This corresponds to a pre-dispensed dose of 50 micrograms of salmeterol (as salmeterol xinafoate) and 500 micrograms fluticasone propionate.

3. LIST OF EXCIPIENTS

Excipient: Lactose monohydrate

4. PHARMACEUTICAL FORM AND CONTENTS

Inhalation powder, pre-dispensed
1 x 28 inhalations
2 x 60 inhalations
3 x 60 inhalations
10 x 60 inhalations

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet carefully before use
Inhalation use

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children
7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

9. SPECIAL STORAGE CONDITIONS

Do not store above 30°C

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

GlaxoSmithKline (Ireland) Ltd.
12 Riverwalk
Citywest Business Campus
Dublin 24
Ireland

12. MARKETING AUTHORISATION NUMBER(S)

MA 192/00903

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER – HUMAN READABLE DATA
PC:
SN:
NN:
MINIMUM PARTICULARS TO APPEAR ON SMALL IMMEDIATE PACKAGING UNITS

DISKUS LABEL

1. **NAME OF THE MEDICINAL PRODUCT AND ROUTE(S) OF ADMINISTRATION**

   Seretide Diskus forte 50 µg/500 µg/ dose inhalation powder
   salmeterol/fluticasone propionate

   Inhalation use

2. **METHOD OF ADMINISTRATION**

   Read the package leaflet carefully before use

3. **EXPIRY DATE**

   EXP

4. **BATCH NUMBER**

   Lot

5. **CONTENTS BY WEIGHT, BY VOLUME OR BY UNIT**

   28 or 60 doses

6. **OTHER**
Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.
- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor or pharmacist.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their symptoms and signs of illness are the same as yours.
- If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet. See section 4.

**What is in this leaflet:**
1. What Seretide is and what it is used for
2. What you need to know before you use Seretide
3. How to use Seretide
4. Possible side effects
5. How to store Seretide
6. Contents of the pack and other information

1. What Seretide is and what it is used for

Seretide contains two medicines, salmeterol and fluticasone propionate:
- Salmeterol is a long-acting bronchodilator. Bronchodilators help the airways in the lungs to stay open. This makes it easier for air to get in and out. The effects last for at least 12 hours.
- Fluticasone propionate is a corticosteroid which reduces swelling and irritation in the lungs.

The doctor has prescribed this medicine to help prevent breathing problems such as:
- Asthma
- Chronic Obstructive Pulmonary Disease (COPD). Seretide Diskus, at a dose of 50/500 micrograms, reduces the number of flare ups of COPD symptoms.

You must use Seretide every day as directed by your doctor. This will make sure that it works properly in controlling your asthma or COPD.

**Seretide helps to stop breathlessness and wheeziness coming on.** However **Seretide should not be used to relieve a sudden attack of breathlessness or wheezing.** If this happens you need to use a fast-acting ‘reliever’ (‘rescue’) inhaler, such as salbutamol. **You should always have your fast-acting ‘rescue’ inhaler with you.**

2. What you need to know before you use Seretide

**Do not take Seretide:**
- If you are allergic to salmeterol, fluticasone propionate or to the other ingredient lactose monohydrate.

**Warnings and precautions**
Talk to your doctor before using Seretide if you have:
- Heart disease, including an irregular or fast heart beat
• Overactive thyroid gland
• High blood pressure
• Diabetes mellitus (Seretide may increase your blood sugar)
• Low potassium in your blood
• Tuberculosis (TB) now or in the past, or other lung infections

Contact your doctor if you experience blurred vision or other visual disturbances.

Other medicines and Seretide
Tell your doctor or pharmacist if you are taking, have recently taken, or might take any other medicines including medicines for asthma or any medicines obtained without a prescription. This is because Seretide may not be suitable to be taken with some other medicines.

Tell your doctor if you are taking the following medicines, before starting to use Seretide:
• β blockers (such as atenolol, propranolol and sotalol). β blockers are mostly used for high blood pressure or other heart conditions.
• Medicines to treat infections (such as ketoconazole, itraconazole and erythromycin) including some medicines for HIV treatment (such as ritonavir, cobicistat containing products). Some of these medicines may increase the amount of fluticasone propionate or salmeterol in your body. This can increase your risk of experiencing side effects with Seretide, including irregular heart beats, or may make side effects worse. Your doctor may wish to monitor you carefully if you are taking these medicines.
• Corticosteroids (by mouth or by injection). If you have had these medicines recently, this might increase the risk of this medicine affecting your adrenal gland.
• Diuretics, also known as ‘water tablets’ used to treat high blood pressure.
• Other bronchodilators (such as salbutamol).
• Xanthine medicines. These are often used to treat asthma.

Pregnancy and breastfeeding
If you are pregnant or breastfeeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before taking this medicine.

Driving and using machines
Seretide is not likely to affect your ability to drive or use machines.

Seretide contains lactose
Seretide Diskus contains up to 12.5 milligrams of lactose monohydrate in each dose. The amount of lactose in this medicine does not normally cause problems in people who are lactose intolerant. The excipient lactose contains small amounts of milk proteins, which may cause allergic reactions.

3. How to use Seretide
Always use this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure.
• Use your Seretide every day until your doctor advises you to stop. Do not take more than the recommended dose. Check with your doctor or pharmacist if you are not sure.
• Do not stop taking Seretide or reduce the dose of Seretide without talking to your doctor first.
• Seretide should be inhaled through the mouth into the lungs.

For asthma
Adults and adolescents aged 12 years and over
Seretide 50/100 Diskus - One inhalation twice a day
Seretide 50/250 Diskus - One inhalation twice a day
Seretide 50/500 Diskus - One inhalation twice a day

Children 4 to 12 years of age
• Seretide 50/100 Diskus - One inhalation twice a day
• Seretide is not recommended for use in children below 4 years of age.

For adults with Chronic Obstructive Pulmonary Disease (COPD)
• Seretide 50/500 Diskus - One inhalation twice a day

Your symptoms may become well controlled using Seretide twice a day. If so, your doctor may decide
to reduce your dose to once a day. The dose may change to:
• once at night - if you have **night-time** symptoms
• once in the morning - if you have **daytime** symptoms.

It is very important to follow your doctor’s instructions on how many inhalations to take and how
often to take your medicine.

If you are using Seretide for asthma, your doctor will want to regularly check your symptoms.

**If your asthma or breathing gets worse tell your doctor straight away.** You may find that you feel
more wheezy, your chest feels tight more often or you may need to use more of your fast-acting
‘reliever’ medicine. If any of these happen, you should continue to take Seretide but do not increase
the number of puffs you take. Your chest condition may be getting worse and you could become
seriously ill. See your doctor as you may need additional treatment.

**Instructions for use**
• Your doctor, nurse or pharmacist should show you how to use your inhaler. They should check
  how you use it from time to time. Not using the Seretide Diskus properly or as prescribed may
  mean that it will not help your asthma or COPD as it should.
• The Diskus device holds blisters containing Seretide as a powder.
• There is a counter on top of the Diskus which tells you how many doses are left. It counts down to
  0. The numbers 5 to 0 will appear in red to warn you when there are only a few doses left. Once
  the counter shows 0, your inhaler is empty.

**Using your inhaler**
1. To open your Diskus, hold the outer case in one hand and put the thumb of your other hand on the
   thumbgrip. Push your thumb away from you as far as it will go. You will hear a click. This will
   open a small hole in the mouthpiece.

![Image of inhaler](image.jpg)

2. Hold your Diskus with the mouthpiece towards you. You can hold it in either your right or left
   hand. Slide the lever away from you as far as it will go. You will hear a click. This places a dose
   of your medicine in the mouthpiece.
Every time the lever is pulled back a blister is opened inside and the powder made ready for you to inhale. Do not play with the lever as this opens the blisters and wastes medicine.

3. Hold the Diskus away from your mouth, breathe out as far as is comfortable. Do not breathe into your Diskus.

4. Put the mouthpiece to your lips; breathe in steadily and deeply through the Diskus, not through your nose. Remove the Diskus from your mouth. Hold your breath for about 10 seconds or for as long as is comfortable. Breathe out slowly.

5. Afterwards rinse your mouth with water and spit it out, and/or brushing your teeth. This may help to stop you getting thrush and becoming hoarse.

6. To close the Diskus, slide the thumbgrip back towards you, as far as it will go. You will hear a click. The lever will return to its original position and is reset.

Your Diskus is now ready for you to use again.

As with all inhalers, caregivers should ensure that children prescribed Seretide Diskus use correct inhalation technique, as described above.

**Cleaning your inhaler**
Wipe the mouthpiece of the Diskus with a dry tissue to clean it.

**If you use more Seretide than you should**
It is important to use the inhaler as instructed. If you accidentally take a larger dose than recommended, talk to your doctor or pharmacist. You may notice your heart beating faster than usual and that you feel shaky. You may also have dizziness, a headache, muscle weakness and aching joints.

If you have used larger doses for a long period of time, you should talk to your doctor or pharmacist for advice. This is because larger doses of Seretide may reduce the amount of steroid hormones produced by the adrenal gland.

If you forget to use Seretide
Do not take a double dose to make up for a forgotten dose. Just take your next dose at the usual time.

If you stop using Seretide
It is very important that you take your Seretide every day as directed. **Keep taking it until your doctor tells you to stop. Do not stop or suddenly reduce your dose of Seretide.** This could make your breathing worse.

In addition, if you suddenly stop taking Seretide or reduce your dose of Seretide this may (very rarely) cause you to have problems with your adrenal gland (adrenal insufficiency) which sometimes causes side effects.

These side effects may include any of the following:

- Stomach pain
- Tiredness and loss of appetite, feeling sick
- Sickness and diarrhoea
- Weight loss
- Headache or drowsiness
- Low levels of sugar in your blood
- Low blood pressure and seizures (fits)

When your body is under stress such as from fever, trauma (such as a car accident), infection, or surgery, adrenal insufficiency can get worse and you may have any of the side effects listed above.

If you get any side effects, talk to your doctor or pharmacist. To prevent these symptoms occurring, your doctor may prescribe extra corticosteroids in tablet form (such as prednisolone).

If you have any further questions on the use of this medicine, ask your doctor, nurse or pharmacist.

4. **Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them. To reduce the chance of side effects, your doctor will prescribe the lowest dose of Seretide to control your asthma or COPD.

**Allergic reactions: you may notice your breathing suddenly gets worse immediately after using Seretide.** You may be very wheezy and cough or be short of breath. You may also notice itching, a rash (hives) and swelling (usually of the face, lips, tongue or throat), or you may suddenly feel that your heart is beating very fast or you feel faint and light headed (which may lead to collapse or loss of consciousness). **If you get any of these effects or if they happen suddenly after using Seretide, stop using Seretide and tell your doctor straight away.** Allergic reactions to Seretide are uncommon (they affect less than 1 person in 100).

**Pneumonia (infection of the lung) in COPD patients.** (Common side effect)
Tell your doctor if you have any of the following while taking Seretide they could be symptoms of a lung infection:

- fever or chills
- increased mucus production, change in mucus colour
- increased cough or increased breathing difficulties

Other side effects are listed below:

**Very Common (affects more than 1 person in 10)**
- Headache - this usually gets better as treatment continues.
- Increased number of colds have been reported in patients with COPD.

**Common (affects less than 1 person in 10)**
- Thrush (sore, creamy-yellow, raised patches) in the mouth and throat. Also sore tongue and hoarse voice and throat irritation. Rinsing your mouth out with water and spitting it out immediately and/or brushing your teeth after taking each dose of your medicine may help. Your doctor may prescribe an anti-fungal medication to treat the thrush.
- Aching, swollen joints and muscle pain.
- Muscle cramps

The following side effects have also been reported in patients with Chronic Obstructive Pulmonary Disease (COPD):

- Bruising and fractures.
- Inflammation of sinuses (a feeling of tension or fullness in the nose, cheeks and behind the eyes, sometimes with a throbbing ache).
- A reduction in the amount of potassium in the blood (you may get an uneven heart beat, muscle weakness, cramp).

**Uncommon (affects less than 1 person in 100)**
- Increases in the amount of sugar (glucose) in your blood (hyperglycaemia). If you have diabetes, more frequent blood sugar monitoring and possibly adjustment of your usual diabetic treatment may be required.
- Cataract (cloudy lens in the eye).
- Very fast heart beat (tachycardia).
- Feeling shaky (tremor) and fast or uneven heart beat (palpitations) - these are usually harmless and get less as treatment continues.
- Chest pain
- Feeling worried (this effect mainly occurs in children).
- Disturbed sleep
- Allergic skin rash

**Rare (affects less than 1 person in 1000)**
- Breathing difficulties or wheezing that get worse straight after taking Seretide. If this happens stop using your Seretide inhaler. Use your fast acting ‘reliever’ inhaler to help your breathing and tell your doctor straight away.
- Seretide may affect the normal production of steroid hormones in the body, particularly if you have taken high doses for long periods of time. The effects include:
  - Slowing of growth in children and adolescents,
  - Thinning of the bones
  - Glaucoma
  - Weight gain
  - Rounded (moon shaped) face (Cushing’s Syndrome)

Your doctor will check you regularly for any of these side effects and make sure you are taking the lowest dose of Seretide to control your asthma.
• Behavioural changes, such as being unusually active and irritable (these effects mainly occur in children).
• Uneven heart beat or heart gives an extra beat (arrhythmias). Tell your doctor, but do not stop taking Seretide unless the doctor tells you to stop.
• A fungal infection in the oesophagus (gullet), which might cause difficulties in swallowing.

**Frequency not known, but may also occur:**
• Depression or aggression. These effects are more likely to occur in children.
• Blurred vision.

**Reporting of side effects**
If you get any side effects, talk to your doctor or pharmacist. This includes any possible side effects not listed in this leaflet.
You can also report side effects directly via HPRA Pharmacovigilance, Earlsfort Terrace, IRL - Dublin 2; Tel: +353 1 6764971; Fax: +353 1 6762517. Website: www.hpra.ie; E-mail:medsafety@hpra.ie.. By reporting side effects you can help provide more information on the safety of this medicine.

5. **How to store Seretide**

• Keep this medicine out of the sight and reach of children.
• Do not use this medicine after the expiry date which is stated on the label and carton after EXP. The expiry date refers to the last day of that month.
• Do not store above 30°C.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. **Contents of the pack and other information**

**What Seretide contains**
• Each pre-dispensed dose contains 50 micrograms of salmeterol (as salmeterol xinafoate) and 100, 250 or 500 micrograms of fluticasone propionate.
• The other ingredient is lactose monohydrate (which contains milk proteins).

**What Seretide looks like and contents of the pack**
• The Seretide Diskus contains a foil strip. The foil protects the powder for inhalation from the effects of the atmosphere.
• Each dose is pre-dispensed.
• The devices are packed in cartons which hold:
  1 x Diskus 28 inhalations
  or 1, 2, 3 or 10 x Diskus each containing 60 inhalations

Not all pack sizes may be marketed.

**Marketing Authorisation Holder and Manufacturer**
Marketing Authorisation Holder:
GlaxoSmithKline (Ireland) Ltd.
12 Riverwalk
Citywest Business Campus
Dublin 24
Ireland

Manufacturer:
This medicinal product is authorised in the Member States of the EEA under the following names:

Austria
Belgium
Croatia
Cyprus
Czech Republic
Denmark
Estonia
Finland
France
Germany
Greece
Hungary
Iceland
Ireland
Italy
Luxembourg
Malta
The Netherlands
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Slovakia
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Sweden
United Kingdom

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