## **SEREVENT<sup>™</sup>** Evohaler<sup>™</sup> Salmeterol xinafoate

## OUALITATIVE AND QUANTITATIVE COMPOSITION

Pressurised metered-dose inhaler delivering 25 micrograms of salmeterol as salmeterol xinafoate per actuation through the mouthpiece of the actuator. In addition to salmeterol xinafoate, the inhaler also contains q.s. ad 75 mg of the chlorofluorocarbon (CFC)-free propellant Norf lurane (also known as HFA 134a or 1,1,1,2 -tetrafluoroethane). PHARMACEUTICAL FORM

## on, s

Each canister contains 120 actuations CLINICAL PARTICULARS

# Therapeutic indications • Continual symptomatic treatment of asti

- in patients requiringfailly does of rapid-acting short-duration beta-2 agonists;
 - and/orfor nocturnal symptoms;
 in combination with continual anti-inflammatory treatment, such as inhaled corti

- matory treatment, such as inhaled corticostere
- in combination with continual anti-inflammatory
  Preventive treatment of exercise-induced asthma.
- N.B. salmeterol is not a suitable treatment for an asthma attack. In the event of an asthma attack, use a rapid-acting short-duration beta-2 nazionale con la constance devaniente no antisolma attacte, ne un exercito en assuma autore, que a rapione una subor ourazione entre minetto by inhalitatione, depending on the severity, by injection. Symptomatic treatment of chronic obstructive pulmonary disease. N. B.a. initialed enricosteroid should no the combined routinely with a bronchodilator in the treatment of chronic obstructive pulmonary disease.

Ns. An innate corrosserio should not be companied noutney with a providenzation in the trainert of enonic obstructive pulmonary basese. Desage and method of administration As there may be adverse effects associated with excessive dosing of this class of drug, the dosage or frequency of administration shouldonly be increased on medical advice. SEREVENT is administered by the inhaled route only.

## Foradults and children over 4 years old only:

Continual symptomatic treatment of asthma:
 Usual dose: 50 µg morning and evening (2 inhalations of 25 µg morning and evening)

- in adults: 100 µg morning and evening (4 inhalations of 25 µg morning and evening) in children over 4 years old: there are no data available on the use of dosages above 50 µg twice daily in this indication.

- In chinden over 4 yeas ou: mere are no acta availade on the use of oosages adove + Preventive treatment of exercise-induced asthma: - 50 µg (2 inhalations of 25 µg) /<sub>1</sub> to 1 hour before exercise. - Yomptomatic treatment of enrorisobstructive pullmonarydisease: - In adults; 50 µg morning and evening (2 inhalations of 25 µg morning and evening).

a dutis: So up anoming and evening (a minimations or cap up minima and exemption)
 Intoinance of this medicinal product (appearance of cough or bronchospasm after inhalation of the product). In this case the treatment so other forms of administration considered.
 Hypersnitivity to any ingredient of the preparation

Warnings and Precautions The management of astima should normally follow a stepwise programme, and patient response should be monitored clinically and by lung function tests. SEREVENT should not be initiated in patients with significantly worsening or acutely deteriorating asthma. Sudden and progressive deterioration of asthma is potentially life threatening and considerations should be given to starting or increasing structure in the starting of the starting of the starting and considerations should be given to starting or increasing threat threat starting and the starting of the starting of the starting and considerations should be given to starting or increasing

sudden and progressive deterioration or sistima is potentially iter intractioning and considerations should be given to starting or increasing Biochicolitatios and other the starting of the motional assessment, including lung functiontesting, as patients are at risk of severe ratarcissand even death. Physicians should consider using and controlstations starting starting as patients are at risk of severe ratarcissand even death. Physicians should consider using and controlstations starting as patients are at risk of severe ratarcissand even death. Physicians should consider using and controlstation starting at the starting as patients are at risk of severe ratarcissand even death. Physicians should consider using and controlstation starting at the starting and the starting and the starting at the starting at the starting at the patient starting starting at the starti

If patients find that short-acting relief bronchoiliator treatment becomes iess effective or they need more inhalations than usual, medical attention must be sought, in this shout objections should be reassest and consideration optiven to the need for increascadant-inflammatory therapy (e.g. higher docess of inhaled corticosteroids or a course of oral corticosteroids). Severe exacerbations of asthma must be treated in the normal ways. SERVEWT is not replacement for oral or inhaled corticosteroids. Suce exacerbations of asthma must be warred not to tops steroid therapy and not to reduce it without medicaladvice even if they feel better on SERVEVI. SERVEWT is not selecting to the cave exits atima symptoms, for which an inhaled short-acting bonchoidlator (e.g. salbutamol) is required. Patients should be advised to have such residencing available (uscore) they develope a short of the selection of a short or distance and the presenting of the selection of a short or the selection of the selection of the selection of the selection of the second selection of the selection of the selection of the short of the selection available to nationate with a bintor of ributer meditor medication available to nationate with a bintor of ributer meditor in the selection of the selection of the short of the selection of the s

to patients with a history of diabetes mellitus. SEREVENT should be administered with caution

inistered with caution in patients with thyrotoxicosis.

SMH:VM/W should be administered with exution in patients with thyrotoxicosis. Controvacular fifts, such as increases in spoticle body prevame and hear tate, and you constantly be seen with all sympathomimetic drugs, especially at higher than therapeutic drass. For this reason, SERIVMI should be used with caution in patients with pre-existing cardiovascular discases. A transient derevance in serum polassium may occur with all sympathomimetic drugs at higher than therapeutic doses. Therefore, SERIVENT should be used with caution in patients predisposed to low levels of serum potassium. Patients' initial recent configure drugs and be used with a caution is synchronised with inspiration of breath for optimum delivery of the drug to the lungs.

Define you me ways to be may a be a may a be a may a set of the se

Treganacyanal Lactation In animal studies, some effects on the foctus, typical for a beta-2 agonist, occurred at exposure levels substantially higher than those that occur with therapeutic use.Extensive experience with otherbeta-2 agonists has provided no evidence that such effects are relevant forwomen receiving clinical doses.

A set experience of the use of salmeterol during pregnancy is limited. Aswith any medicine, use during pregnancy should be considered only if the expected benefit to the mother is greater than any possible risk to the foetus.

to the foretus. As there is limited experience of the use of salmeterol in nursingmothers its use in such circumstances should only be considered if the expected benefit to the mother is greater than any possible risk to the infant. Studies in lactitud animals support the view that salmeterd is likely to be secreted in only very small amounts into breast milk. Norflurane (or tetrafluorocthane or HFA 1344): propellant gas the study of reproductive functions conducted in animals ha failed to demonstrate any harmful effects of the administration of norflurane test study of reproductive functions constrained in the medicinal product. In the absence of treatagenic effects in animals, a maiformation effect in humans is not expect the lines and, however, in elevative data currently available in sufficient amounts to evaluate the possible maiformation Effects on Ability to Orive and Use Machines

None reported.

### Adverse Reacti

Adverse reactions Adverse revents are listed below by system organ class and frequency. Frequencies are defined as: very common (a: 1/10), common (a/1/000 and <1/10), uncommon (a/1/000 and <1/100), rmr (a/1/0000 and <1/1/000] and very rare (c/1/0,000) including isolated reports. Common and uncommon events were generally determined from dinicial trial data. The incidence of placebo was not taken into account. Very rare events were generally determined from post-marketing spontaneous data. The following frequencies are estimated at the standard dues of 50 micrograms twice daily. Frequencies at the higher dose of 100 micrograms

twicedaily have also been taken to accountwhere appropriate.

## Immune system disorders Hypersensitivity Reactions

Uncommon: Rash.

uncommon: nasn. Very rare: A naphylactic reactions including ocdema and angioedema, bronchospasm and anaphylactic shock. Metabolism and nutrition disorders Very rare: Hyperglycaemia.

# Nervous system disorders Common: Tremor an

Tremor and headach

The pharmacological side-effects of beta-2 agonist treatment, such as tremor and headache have been reported, but tend to be tran and to reduce with regular therapy. Tremor occurs more commonly when administered at doses higher than 50 micrograms twice daily. and to reduce with a cardiac disorders Palpitations

Common: rapidizion: rapidizione The pharmacological side-effects of beta-2 agonist treatment, such as subjective palpitations have been reported, but tend to be transient and to reduce with regular literapy. Uncommon: Tachycardia.

Tachycardia occurs more commonly when administered at doses higher than 50 micrograms twice daily. Very rare: CardiacArrhythmias includingatrialfibrillation, supraventricular tachycardia and extrasystoles.

Very rare: CardiacArMytthmiss incluingatrialtibrillation, supraventincular tachycardia and extrasystoles. Registratory, thoracic and mediatarial disorders Very rare: Oropharyngeal inritation and paradoxical bronchospasm. As with other inhabitational threapy, paradoxical bronchospasm may occur with an immediate increase in wheering after dosing. This should be treated immediately with a fast-acting inhaled bronchodilator. SEREVENT Evolution should be discontinued immediately, the patient assessed, and if increasing after lamative threapy instituted.

## Musculoskeletal and connective tissue disorders Common: Musclecramps.

Common Arthralgia.

Vervrare: Overdose

Overage: end of the second se

PHARMACOLOGICAL PROPERTIES

Pharmacodynamics Mechanism of Action

Salmeterol is a selective long-acting (12 h) beta-2 adrenoceptor agonist with a long side- chain which binds to the exo-site of the receptor. Pharmacodynamic properties Pharmacotherapeutic class: SELECTIVE BETA-2 ADRENERGIC AGONIST

ATC code: R03AC12

Inhaleddelayed-action long-duration beta-2mimetic bronchodilator. After inhaleddelayed-action long-duration beta-2mimetic bronchodilator.

After inhalation of a single dose, bronchodilation begins only 15 minutes after administration and persists for about 12hours.

## Pharmacokinetics

Salmeterol acts locally in the lung therefore plasmalevels arenot predicative of therapeutic effect. In addition thereare only limited data available on the pharmacokinetics of salmeterol because of the technical difficulty of assaying the drug in plasma because of the very low plasma concentrations (approximately 200 picogams/ml or less) achived after inhaled dasing.

### Absorption

Absorption Absorption After regular doing with almetered xindinate, hydroxynaphthoir, acid can be detected in the systemic circulation, reaching stady data After regular doing with almetered to almographing The second content and the up to 1000 fold oner than stadystatic levels observed in hoxiby studies and in long term englar doing from than 12 months) in patients with always obstruction, have been shown to produce no ill effects. Northurae (or tetrafilowcenthane or HAT 134a): progeding that gas After inhalation of a puff, HFA 134a is absorbed rapidly in very small amounts, with pack concentration being reached in tests that in alminutes. Avery low level of hepatic meta bolow with formation or tifulorascetic and and trifurovancetaria or theomostratic in animals.

(miceand rats)

Nevertheless, kinetic studiescarried out in patients after administration of HFA 134a in a pathological situation have failed to demonstrate Nevertheless, kinetic studiescarried of the formation of trifluoroacetic acid. Pre-clinical SafetyData Not applica ble. PHARMACEUTICAL PARTICULARS

HAMMACOULTRE FAILURE AND A STREET AND A STRE

Incompatib ilities None reported

Shelf Life

Sheft Life The expiry date is indicated on the packaging. Special Precautions for Storage SEREVENT Evohaler should be stored below 30°C Protectfromfrostand directsunlight.

As with most inhaled medications in pressurised metered-dose inhalers, the therapeutic effect of this medication may decrease when the canister is cold.

Thecanister should not be broken, punctured or burnt, evenwhen apparentlyempty. Nature and Contents of Container

Nature and Contents of Container Pressnited container (Jaumilium) with a metering valve (polypropylene) dispensing 120 doses. SEREVEWT brohaler has been reformulated to remove the chlorofluorocar bon (CFC) propellant. There are no concerns regarding the patient SEREVEWT brohaler has been reformulated to remove the chlorofluorocar bon (CFC) propellant. There are no concerns regarding the patient SEREVEWT brohaler has been reformulated to remove the chlorofluorocar bon (CFC) propellant. There are no concerns regarding the patient SEREVEWT brohaler to organize the organized to the organ service meres. EVENT brohaler to organize SEREVEWT haler you may find that your new SEREVEVT brohaler tasts and feels slightly different from the

original inhaler. on on how to clean your SEREVENT Evohaler carefully. The SEREVENT Evohaler must not be washed with water Please read the section on



- Remove the mouthpiece cover bygently squeezing the sides of the cover and check the mouthpiece inside and outside tosee that it is clean. 1.
- Shake the inhalerwell 2
- Hold the inhaler upright between fingers and thumb with your thumb on the base, below the mouthpiece.
- Breatheout as far as is comfortableand thenplace the mouthpiece inyour mouth betweenyour teeth and close yourlips aroundit but 4. do not hite it
- Just after starting to breathe in through your mouth press down on the top of the inhaler to release SEREVENT while still breathing in 5.
- steadily and deeply. While holding your breath, take the inhaler from your mouth and take your finger from the top of the inhaler. Continue holding your breath for as long as is comforta ble.
- If you are to take a further puffkeepthe inhalerupright and wait about half a minute beforerepeatingsteps 2 to 6.
  Afteruse always replace the mouthpiececover to keep out dustand fluff.
  If the mouthpiece cover is replaced by fimity public gain an snapping thereap into position.

Important: Do not rush stages 4, 5 and 6. It is important that you start to breathe in as slowly as possible just before operatingyour inhaler. Practise in front of a mirror for the first few times. If you see "mist" coming from the top of your inhaler or the sides of your mouth you

should start again fromstage?. If your doctor has given you different instructions for using your inhaler, please follow them carefully. Tell your doctor if you haveany difficulties Children

Toung children mayneed help and theirparents mayneed to operate the inhaler for them. Encourage the child to breathe out and operate the inhaler justafter the child starts to breathein. Practice the technique together. Olderchildren or people with week hands should hold the inhaler with both hands. Put the two forefingers on top of the inhaler and both thum is on the base below the mouthpiece. Cleaning: Your inhal

- aler should be cleaned atleastonce a week

- If influer a nound to characteristic a second and the second seco 3
- 4. Replace the mouthpiececover. DO NOT PUT THE METAL CANISTER INTO WATER

DD Wor room interface or more a series of the Trising your inhibitmas not series of a week or more lease one puff into the air to make sure that it works. Date of sizes the June 2005. SEREVENT on EVOLVALER are trademarks of the GlaxoSmithKline group of companies.

### THIS IS A MEDICAMENT

- Addicament is a product which affects your health and its consumption contrary to instructions is dangerous for you. follow strictly the doctor's prescription, the method of use and the instructions of the pharmacist who sold the medicament. - The doctor and the pharmasist are the experts in medines, their benefits and risks. - Do not by yourself interrupt the periodof treatment prescribed. - Donot repeat the same prescription without consultingyour doctor.

- Keepall medicaments out of reach of children Council of Ara b Health Ministers. Co
- Union of Ara b Pharmacists

