

PRODUCT INFORMATION

FLIXOTIDE® JUNIOR INHALER, (CFC-FREE) INHALER, JUNIOR (CFC-FREE) INHALER, ACCUHALER® AND JUNIOR ACCUHALER®

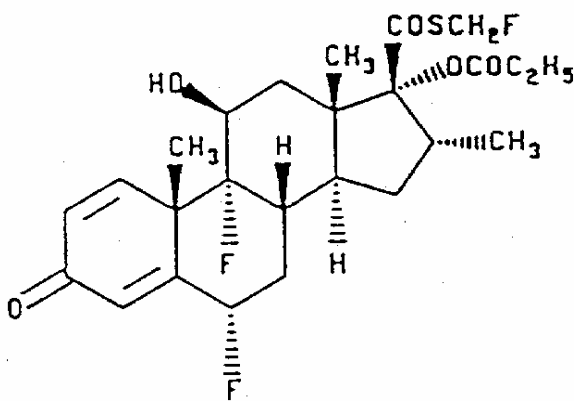
AUSTRALIAN APPROVED NAME: Fluticasone propionate

MOLECULAR FORMULA: C₂₅H₃₁F₃O₅S

CHEMICAL NAME:

S-Fluoromethyl 6 α , 9 α -difluoro-11 β -hydroxy-16 α -methyl-3-oxo-17 α -propionyloxy-androsta-1, 4-diene-17 β -carbothioate.

STRUCTURE:



CAS: 80474-14-2

MODE OF ACTION:

Fluticasone propionate given by inhalation at recommended doses has potent glucocorticoid activity in the airway. The potent anti-inflammatory action improves the symptomatic control of asthma, allows reduction of other drugs, such as rescue bronchodilators, and may limit the risk of decline in lung function over time. The low systemic bioavailability of fluticasone propionate provides a better risk: benefit outcome without the adverse effects that accompany systemically administered corticosteroids.

PHARMACOKINETICS:

Following inhaled doses of 2000mcg per day (1000mcg twice daily) for 14 days in healthy volunteers, peak plasma concentrations of about 0.3ng/mL were observed at 30-60 minutes post-dosing.

The absolute bioavailability of fluticasone propionate for each of the available inhaler devices has been estimated from within and between study comparisons of inhaled and intravenous pharmacokinetic data based on AUC(0-infinity) data. In healthy adult subjects the absolute bioavailability has been estimated for Flixotide Accuhaler (8%) and Flixotide Inhaler (10.9%) respectively. Since the bioavailability of the swallowed portion of an inhaled

dose which reaches the gastrointestinal tract is virtually zero, the systemic absorption would be a reflection of the amount of drug reaching the lungs.

Fluticasone propionate has many pharmacokinetic and pharmacodynamic features similar to those of other inhaled glucocorticoids used for the treatment of asthma. However, in contrast to these other steroids, a combination of incomplete gastrointestinal absorption and high first pass metabolic extraction ensures that virtually no fluticasone propionate swallowed after oral inhalation reaches the systemic circulation.

Studies with radiolabelled and unlabelled fluticasone propionate administered orally to human volunteers indicate that the majority of the dose (87%-100%) is excreted in the faeces, with up to 75% as unchanged drug, depending on the dose administered. Between 1% and 5% of the dose is excreted as metabolites in urine.

Single oral doses of 16mg in healthy volunteers produced plasma levels of less than 0.5ng/mL.

Single intravenous doses of 2mg in healthy volunteers revealed that the clearance of fluticasone propionate approximates liver blood flow (900ml/min), with renal clearance (0.11mL/min) accounting for less than 1%. These results indicate that hepatic extraction is almost complete and that oral bioavailability is close to zero.

Following intravenous administration, the pharmacokinetics of fluticasone propionate are proportional to the dose. Fluticasone propionate is extensively distributed within the body. The volume of distribution at steady state is approximately 300 litres and has a very high clearance which is estimated to be 1.1 litre/minute indicating extensive hepatic extraction. Peak plasma fluticasone propionate concentrations are reduced by approximately 98% within 3-4 hours and only low plasma concentrations are associated with the terminal half-life, which is approximately 8 hours.

In animals and humans, propellant HFA-134a was eliminated rapidly in the breath, with no evidence of metabolism or accumulation in the body. Time to maximum plasma concentration (t_{max}) and mean residence time are both extremely short, leading to a transient appearance of HFA-134a in the blood with no evidence of accumulation.

CLINICAL TRIALS:

Adults and children over 4 years of age

The clinical trial program evaluated the efficacy and safety of inhaled fluticasone propionate (FP) in over 6,000 patients with mild, moderate or severe asthma. The studies ranged from a few weeks to 12 months in duration, and included paediatric (≥ 4 years old), adult and elderly patients. Most studies were double-blind in design; some were placebo-controlled, while others included beclomethasone dipropionate or budesonide as the comparator.

Fluticasone propionate was demonstrated to be an effective and well tolerated inhaled corticosteroid suitable for the treatment of asthmatics of all ages with varying disease severity. The onset of therapeutic effect occurred within 4 to 7 days. Maximum improvement in lung function occurred as early as 3 months, and response was well sustained over periods of up to 12 months.

In some studies where fluticasone propionate was administered at half the dosage of beclomethasone dipropionate and budesonide, inhaled fluticasone propionate was shown to be at least as effective as the comparator in patients with mild to moderate or severe asthma.

Fluticasone propionate 1 mg twice daily was also shown to provide an oral corticosteroid-sparing effect in a small group of adult patients. Over 6 months, mean prednisolone needs were markedly reduced from 11.9 mg to 6 mg, accompanied by sustained improvements in lung function.

Flixotide Inhaler and Accuhaler are clinically equivalent.

Throughout the proposed therapeutic range and in studies extended to 12 months, the geometric mean cortisol concentration for both children and adults remained within the normal range. Individual patient data indicated that the incidence of clinically relevant reductions in serum cortisol concentrations was very low. Twelve-month data comparing fluticasone propionate 1.5 mg/day to beclomethasone dipropionate 1.5 mg/day demonstrated no difference in plasma cortisol concentration at any time point. At the dose of 2 mg/day fluticasone propionate over 12 months, there was a net increase of 7% of patients whose serum cortisol concentrations fell below the lower limit of normal; although this may have been partly due to past or concurrent treatment with oral corticosteroids.

In addition, five clinical studies were conducted with fluticasone propionate CFC-free inhaler, in which 885 adults were treated at doses of 100µg bd, 250µg bd, 500µg bd and 1000µg bd over periods of 4 weeks to 12 months. One further study was conducted in children, in which 158 children received 100µg bd fluticasone propionate from CFC-free inhaler for four weeks. These studies established the clinical efficacy and safety of the CFC-free formulations, and their equivalence with previous CFC-containing formulations.

1-4 year old children

462 children aged 1 to 4 years, with asthma symptoms, were entered into 2 pivotal safety and efficacy studies, of which 310 received inhaled fluticasone propionate (FP) for 12-week treatment periods. Both studies were conducted with the CFC-containing formulation and were double-blind, parallel group and placebo-controlled. Treatment was administered via a metered-dose inhaler, with a Babyhaler™ spacer and face mask.

Patients receiving at least one day's treatment were assessed.

In one study (n=233), a dose of FP 100 µg bd (n=76) was statistically significantly better than placebo (n=80) in the primary efficacy variables of percentage cough-free days (median difference 13.2%, [95% CI: 3.3%, 21.4%]) and percentage wheeze-free days (median difference 6.0% [95% CI: 1.3%, 13.3%]). A dose of FP 50 µg bd (n=77) was of borderline significance with respect to differences from placebo: percentage cough-free days (median difference 8.3% [95% CI: -0.6%, 17.5%]) and percentage wheeze-free days (median difference 5.5%, [95% CI: 0.0%, 11.7%]).

In a second study (n=211), there were no significant differences in percentage cough- or wheeze-free days amongst the treatment groups, FP 100 µg bd, FP 250 µg bd and placebo, over the 12 weeks.

A sub-group analysis of the data from the two trials for the FP 100 µg bd group found significant benefits over placebo in patients with chronic persistent symptoms but not in patients with episodic symptoms. In patients with chronic persistent symptoms, the median difference from placebo in cough-free days was 15.0% [95% CI: 4.1%, 25.7%] and in wheeze-free days, 8.6% [95% CI: 2.4%, 17.3%].

Studies in 1-4 year old children have not been conducted with the CFC-free formulation. However, equivalence between formulations has been demonstrated in older children and significant differences between formulations would therefore not be expected in the younger age group.

INDICATIONS:

For use in the prophylactic management of asthma in adults and children of ages 1 year and older.

CONTRAINDICATIONS:

Flixotide is contraindicated in patients with a history of hypersensitivity to any components of the preparations (See Presentation).

PRECAUTIONS:

The management of asthma should follow a stepwise programme, and patient response should be monitored clinically and by lung function tests. Increasing use of short-acting inhaled beta-2 agonists to control symptoms indicates deterioration of asthma control. Under these conditions, the patient's therapy plan should be reassessed. Sudden and progressive deterioration in asthma control is potentially life-threatening and consideration should be given to increasing corticosteroid dosage. In patients considered at risk, daily peak flow monitoring may be instituted.

Lack of response or severe exacerbations of asthma may be an indication for review of the patient. Treatment options may include increasing the dose of inhaled fluticasone propionate and, if necessary, giving a systemic steroid and/or an antibiotic if there is an infection.

Flixotide is not for use in acute attacks but for routine long-term management. Patients will require a fast- and short-acting inhaled bronchodilator to relieve acute asthmatic symptoms.

Treatment with Flixotide should not be stopped abruptly.

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

As with all inhaled corticosteroids, special care is necessary in patients with active or quiescent pulmonary tuberculosis.

A drug interaction study in healthy subjects has shown that ritonavir (a highly potent cytochrome P450 3A4 inhibitor) can greatly increase fluticasone propionate plasma concentrations, resulting in markedly reduced serum cortisol concentrations. During post-marketing use, there have been reports of clinically significant drug interactions in patients receiving fluticasone propionate and ritonavir, resulting in systemic corticosteroid effects including Cushing's syndrome and adrenal suppression. Therefore, concomitant use of fluticasone propionate and ritonavir should be avoided, unless the potential benefit to the patient outweighs the risk of systemic corticosteroid side-effects.

Flixotide Inhaler:

Patients' inhaler technique should be checked to make sure that inhaler actuation is synchronised with inspiration to ensure optimum delivery of the drug to the lungs.

Spacer Devices:

Most patients will benefit from the consistent use of a spacer device with their metered dose inhaler (MDI or 'puffer'), particularly those with poor inhaler technique. Use of a spacer will also decrease the amount of drug deposited in the mouth and back of the throat, and therefore reduce the incidence of local side effects such as 'thrush' and a hoarse voice.

A change in the make of spacer may be associated with alterations in the amount of drug delivered to the lungs. The clinical significance of these alterations is uncertain. However, in these situations, the person should be monitored for any loss of asthma control.

If using a spacer, the patient should be instructed to actuate the inhaler into the spacer and then slowly breathe in as far as possible. Hold your breath for as long as comfortable, before breathing out slowly. This should be repeated for each actuation of the drug into the spacer. Any delays between actuation and inhalation should be kept to a minimum.

Static on the walls of the spacer may cause variability in drug delivery. Patients should be instructed to wash the spacer in warm water and detergent and allow it to air dry without rinsing or drying with a cloth. This should be performed before initial use of the spacer and at least monthly thereafter.

Precautions:

Possible systemic effects, including Adrenocortical function, Bone density and Growth:

Inhaled steroids are designed to direct glucocorticoid delivery to the lungs in order to reduce overall systemic glucocorticoid exposure and side effects. With sufficient doses however, all inhaled steroids can have adverse effects; possible systemic effects include Cushing's syndrome, Cushingoid features, depression of the hypothalamic-pituitary adrenal (HPA) axis, reduction of bone density, retardation of growth rate, cataract and glaucoma (see Overdosage).

The lowest doses of inhaled corticosteroids that cause suppression of the HPA axis (as indicated by the 24 hour urinary cortisol concentrations), effects on bone mineral density or growth retardation in children has not yet been established. Some depression of plasma cortisol may occur in a small number of adult patients receiving inhaled FP at recommended and higher doses but it is not possible to predict which patients are at risk based solely on dose, previous history or length of exposure to inhaled or oral steroids. Adrenal function and adrenal reserve usually remain within normal range on inhaled fluticasone propionate therapy.

Use in Children:

The growth of paediatric patients receiving corticosteroids, including fluticasone propionate, should be monitored. The potential growth effects of prolonged treatment should be weighed against the clinical benefits obtained. To minimise the systemic effects of orally inhaled corticosteroids, including fluticasone propionate, each patient should be titrated down to the lowest dose that effectively controls his/her asthma. (See Dosage & Administration.)

In children taking recommended doses of inhaled fluticasone propionate, adrenal function and adrenal reserve usually remain within the normal range. However, the possible effects of previous or intermittent treatment with oral steroids should not be discounted. Nevertheless, the benefits of inhaled fluticasone propionate should minimise the need for oral steroids.

Medical Emergency:

Patients in a medical or surgical emergency, who in the past have required high doses of other inhaled steroids and/or intermittent treatment with oral steroids, remain at risk of impaired adrenal reserve for a considerable time after transferring to inhaled fluticasone propionate. The extent of the adrenal impairment may require specialist advice before elective procedures. The possibility of residual impaired adrenal response should always be borne in mind in emergency and elective situations likely to produce stress and appropriate corticosteroid treatment must be considered (see Overdosage).

Transfer of patients being treated with oral corticosteroids:

Because of the possibility of impaired adrenal response, patients transferring from oral steroid therapy to inhaled fluticasone propionate should be treated with special care and adrenocortical function regularly monitored.

Following introduction of inhaled fluticasone propionate, withdrawal of systemic therapy should be gradual and patients whose adrenocortical function is still impaired should carry a steroid warning card indicating that they may need supplementary systemic steroid during periods of stress, e.g. worsening asthma attacks, chest infections, major intercurrent illness, surgery, trauma, etc.

In rare cases inhaled therapy may unmask underlying eosinophilic conditions (e.g. Churg-Strauss syndrome). These cases have usually been associated with reduction or withdrawal of oral corticosteroid therapy. A direct causal relationship has not been established.

Similarly, replacement of systemic steroid treatment with inhaled therapy sometimes unmasks allergies such as allergic rhinitis or eczema previously controlled by the systemic drug. These allergies should be symptomatically treated with antihistamine and/or topical preparations, including topical steroids.

Effects on ability to drive and use machinery:

Fluticasone propionate is unlikely to produce an effect.

Carcinogenicity, Mutagenicity and Impairment of Fertility:

No evidence of a tumorigenic effect was observed in either a 2 year study in rats receiving doses of fluticasone propionate up to 57 µg/kg/day by inhalation or in an 18 month study in mice receiving oral doses of fluticasone propionate up to 1 mg/kg/day. There was no evidence of a mutagenic potential in a standard battery of mutagenicity assays.

A fertility study in rats showed decreased mean fetal weight, retardation of ossification, and decreased postnatal viability at the dose of 50 µg/kg/day SC of fluticasone propionate.

Use in Pregnancy: (Category B3)

There is inadequate evidence of safety of fluticasone propionate in human pregnancy. Corticosteroids are known to induce fetotoxic and teratogenic effects in rodent studies. However, equivalent effects have not been reported when these compounds have been given to humans during pregnancy. Teratology studies with fluticasone propionate in mice and rats have shown the expected fetotoxic and teratogenic effects at SC doses of 100 to 150 µg/kg/day and above. In an inhalational teratology study in rats, fluticasone propionate was not teratogenic at inhalational doses up to 68.7 µg/kg/day, but reduced fetal bodyweight and delayed fetal development were noted at maternal doses of 25.7 µg/kg/day and greater. As for previous compounds of this class, these effects are unlikely to be relevant to human therapy. However, as with other drugs the administration of fluticasone propionate during pregnancy should only be considered if the expected benefit to the mother is greater than any possible risk to the foetus.

Use in Lactation:

The excretion of fluticasone propionate into human breast milk has not been investigated. Subcutaneous administration of tritiated drug to lactating rats resulted in measurable radioactivity in both plasma and milk (levels in milk were 3-7 times plasma levels) 1-8 hours post-dose.

However, the amount of fluticasone propionate ingested by the newborn is estimated to be very small as a consequence of very low maternal plasma concentration of fluticasone propionate.

INTERACTIONS:

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 P450 3A4 in the gut and liver. Hence, clinically significant drug interactions mediated by fluticasone propionate are unlikely.

A drug interaction study in healthy subjects has shown that ritonavir (a highly potent cytochrome P450 3A4 inhibitor) can greatly increase fluticasone propionate plasma concentrations, resulting in markedly reduced serum cortisol concentrations. During post-marketing use, there have been reports of clinically significant drug interactions in patients receiving fluticasone propionate and ritonavir, resulting in systemic corticosteroid effects including Cushing's syndrome and adrenal suppression. Therefore, concomitant use of fluticasone propionate and ritonavir should be avoided, unless the potential benefit to the patient outweighs the risk of systemic corticosteroid side-effects.

Studies have shown that other inhibitors of cytochrome P450 3A4 produce negligible (erythromycin) and minor (ketoconazole) increases in systemic exposure to fluticasone propionate without notable reductions in serum cortisol concentrations. Nevertheless, care is advised when co-administering potent cytochrome P450 3A4 inhibitors (e.g. ketoconazole) as there is potential for increased systemic exposure to fluticasone propionate.

ADVERSE REACTIONS:

Candidiasis (thrush) of the mouth and throat and/or hoarseness is commonly reported. Patients may find it helpful to rinse out their mouth with water after inhalation. Symptomatic candidiasis can be treated with topical anti-fungal therapy whilst still continuing with the fluticasone propionate.

As with other inhalation therapy, paradoxical bronchospasm may occur rarely, with an immediate increase in wheezing after dosing. This should be treated immediately with a fast-acting inhaled bronchodilator. Flixotide should be discontinued immediately, the patient assessed, and if necessary alternative therapy instituted.

There have been uncommon reports of cutaneous hypersensitivity reactions. There have also been rare reports of hypersensitivity reactions manifesting as angioedema (mainly facial and oropharyngeal oedema), respiratory symptoms (dyspnoea and/or bronchospasm) and very rarely, anaphylactic reactions.

There have been common reports of contusions.

Other adverse events that may occur rarely include: Possible systemic effects include adrenal suppression, growth retardation in children and adolescents, decrease in bone mineral density, cataract and glaucoma. (see Precautions: Possible systemic effects, including Adrenocortical function, Bone density and Growth)

There have also been reports of Cushing's syndrome and Cushingoid features.

There have been very rare reports of anxiety, sleep disorders and behavioural changes, including hyperactivity and irritability (predominantly in children).

There have been very rare reports of hyperglycaemia.

In two studies in children from ages 1- 4, fluticasone propionate 50µg b.d., 100µg b.d. and 250µg b.d. was as well tolerated as placebo. In these studies, skin rash, allergic skin reactions, throat irritation, nasal irritation, epistaxis hoarseness/dysphonia, and candidiasis of the mouth/throat were reported at frequencies between 0% and 5%. There were no significant differences in incidence of these occurrences between groups.

DOSAGE AND ADMINISTRATION:

Fluticasone propionate has a marked anti-inflammatory effect in the lungs. It reduces symptoms and exacerbations of asthma in patients receiving either no prophylactic treatment or other available anti-asthma therapy.

Flixotide Inhaler is administered via the inhaled route only. It is intended that each prescribed dose is given by a minimum of 2 inhalations.

In patients who find co-ordination of a pressurised metered-dose inhaler difficult, a spacer may be used with Flixotide Inhaler.

Flixotide Accuhaler is administered via the inhaled route only.

Patients should be made aware of the prophylactic nature of therapy with inhaled fluticasone propionate and that it should be taken regularly even when they are asymptomatic. The onset of therapeutic effect is within 4 to 7 days.

If patients find that relief with short-acting bronchodilator treatment becomes less effective or they need more inhalations than usual, medical attention must be sought.

The dosage of fluticasone propionate should be adjusted according to the individual response.

Refer to **Presentations** section for further information.

Adults and children over 16 years:

100 to 1000 micrograms twice daily.

Prophylactic management in:

Mild asthma (PEF values greater than 80% predicted at baseline with less than 20% variability): Patients requiring intermittent symptomatic bronchodilator asthma medication on more than an occasional basis.

Moderate asthma (PEF values 60-80% predicted at baseline with 20-30% variability): Patients requiring regular asthma medication and patients with unstable or worsening asthma on currently available prophylactic therapy or bronchodilator alone.

Severe asthma (PEF values less than 60% predicted at baseline with greater than 30% variability): Patients with severe chronic asthma. On introduction of inhaled fluticasone propionate many patients who are dependent on systemic corticosteroids for adequate control of symptoms may be able to reduce significantly or to eliminate their requirement for oral corticosteroids.

Patients should be given a starting dose of inhaled fluticasone propionate which is appropriate for the severity of their disease:

Mild asthma:	100 to 250 micrograms twice daily
Moderate asthma:	250 to 500 micrograms twice daily
Severe asthma:	500 to 1000 micrograms twice daily

Once asthma symptoms have been controlled, the dose of fluticasone propionate should be reduced to the lowest dose which maintains control of asthma symptoms (as recommended in the Asthma Management Handbook, 1996.).

Alternatively, the starting dose of fluticasone propionate may be gauged at half the total daily dose of beclomethasone dipropionate as administered by metered-dose inhaler or equivalent. Any initial lack of effect using this guideline may indicate too small a dose rather than a treatment failure.

Children over 1 year of age:

50 to 100 micrograms twice daily.

Any child who requires prophylactic medication, including patients not controlled on currently available prophylactic medication.

Clinical trials in 1 to 4 year old children have shown that the optimal control of asthma symptoms is achieved with 100 mcg twice daily.

However, children should be given a starting dose of inhaled fluticasone propionate which is appropriate for the severity of their disease, this may be 50 or 100 micrograms twice daily.

Once asthma symptoms have been controlled, the dose of fluticasone propionate should be reduced to the lowest dose which maintains control of asthma symptoms (as recommended in the Asthma Management Handbook, 1996.).

In children under the age of eight, it is strongly recommended that a spacer device be used to administer FLIXOTIDE JUNIOR CFC-FREE metered dose inhaler.

Inhaled fluticasone propionate is of benefit to younger children in the control of frequent and persistent asthma symptoms.

Special patient groups:

There is no need to adjust the dose in elderly patients or in those with hepatic or renal impairment.

OVERDOSAGE:

Acute inhalation of fluticasone propionate doses in excess of those approved may lead to temporary suppression of the hypothalamic-pituitary-adrenal axis. This does not usually require emergency action, as normal adrenal function typically recovers within a few days.

If higher than approved doses are continued over prolonged periods, significant adrenocortical suppression is possible. There have been very rare reports of acute adrenal crisis occurring in children exposed to higher than approved doses (typically 1000 mcg daily and above), over prolonged periods (several months or years). Presenting symptoms are typically vague and may include anorexia, abdominal pain, weight loss, tiredness, headache, nausea, vomiting, decreased level of consciousness, hypoglycaemia, and seizures. Situations which could potentially trigger acute adrenal crisis include exposure to trauma, surgery, infection or any rapid reduction in dosage. Additional systemic corticosteroid cover should be considered during periods of stress or elective surgery.

It is not recommended that patients receive higher than approved doses. It is important to review therapy regularly and titrate down to the lowest dose at which effective control of disease is maintained (see Dosage and Administration).

PRESENTATION:

1. Flixotide Inhaler: A pressurised metered-dose inhaler available in three strengths.

Flixotide Junior (CFC-free) Inhaler 50mcg/actuation delivers 50 micrograms of fluticasone propionate per inhalation. 120 doses.

Flixotide (CFC-free) Inhaler 125mcg/actuation delivers 125 micrograms of fluticasone propionate per inhalation. 60 and 120 doses.

Flixotide (CFC-free) Inhaler 250mcg/actuation delivers 250 micrograms of fluticasone propionate per inhalation. 60 and 120 doses.

Flixotide Junior (CFC-free) Inhaler 50mcg/actuation and Flixotide (CFC-free) Inhalers 125 and 250mcg/actuation contain norflurane as propellant.

2. Dry Powder Inhaler

Flixotide Junior Accuhaler is a moulded plastic device containing a foil strip with 60 regularly placed blisters, containing a mixture of microfine fluticasone propionate (100 micrograms) and larger particle size lactose (which contains milk protein).

Flixotide Accuhaler is a moulded plastic device containing a foil strip with 60 regularly placed blisters, containing a mixture of microfine fluticasone propionate (250 micrograms or 500 micrograms) and larger particle size lactose (which contains milk protein).

SHELF-LIFE AND STORAGE CONDITIONS:

Flixotide Junior (CFC-Free) Inhaler and CFC-Free Inhalers should be stored between 2°C and 30°C. Protect from frost and direct sunlight. As with most inhaled medications in pressurised canisters, the therapeutic effect of this medication may decrease when the canister is cold. The canister should not be punctured, broken or burnt even when apparently empty.

Replace the mouthpiece cover firmly and snap it into position.

Flixotide Accuhalers and Junior Accuhalers should be stored below 30°C. Store in a dry place.

SPONSOR :

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