1. NAME OF THE MEDICINAL PRODUCT

Duraphat 50 mg/ml Dental Suspension

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

1 ml of suspension contains 50 mg Sodium Fluoride equivalent to 22.6 mg of Fluoride

For a full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Dental Suspension

Brown/yellow, opaque suspension

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

For the prevention of caries in children and adults as part of a comprehensive control programme.

For the:

- prevention of recurring (or marginal) caries
- prevention of progression of caries
- prevention of decalcification around orthodontic appliances
- prevention of pit and fissure (occlusal) caries.

For the desensitisation of hypersensitive teeth as part of a treatment regimen which includes the daily use of a suitable toothpaste.

4.2 Dosology and method of administration

Duraphat 50 mg/ml Dental Suspension is to be applied by the dentist. Before applying Duraphat, excess plaque should be removed and the teeth dried. Duraphat is applied as a thin layer to the most susceptible areas of dentition using a brush, probe or swab.

Recommended dosage for single application:

For milk teeth: up to 0.25 ml (=5.65 mg Fluoride)

For mixed dentition: up to 0.40 ml (=9.04 mg Fluoride)

For permanent dentition: up to 0.75 ml (=16.95 mg Fluoride)

<u>For caries prophylaxis</u>, the application is usually repeated every 6 months but more frequent applications (every 3 months) may be made.

<u>For hypersensitivity</u>, 2 or 3 applications should be made within a few days.

The patient should not brush the teeth or chew food for 4 hours after treatment.

Method of administration: For dental use

4.3 Contraindications

Hypersensitivity to colophony and/or any other constituents.

Ulcerative gingivitis.

Stomatitis.

Bronchial asthma.

4.4 Special warnings and precautions for use

Application of Duraphat 50 mg/ml Dental Suspension to the whole dentition should not be carried out on an empty stomach.

On the day when Duraphat has been applied, no high dose Fluoride preparations, such as Fluoride gels, should be used. The administration of Fluoride supplements should be suspended for several days after applying Duraphat.

4.5 Interaction with other medicinal products and other forms of interaction

The presence of alcohol in the Duraphat formula should be considered.

4.6 Pregnancy and lactation

As this product contains 33.8% of ethanol (each dose contains up to 0.2 g of alcohol), it is recommended to avoid its use in pregnant women and during lactation.

4.7 Effects on ability to drive and use machines

None known.

4.8 Undesirable effects

Gastrointestinal disorders:

Very rare (<1/10,000): Stomatitis, gingivitis ulcerative, retching, oedema mouth and nausea may occur in sensitive (allergic) individuals - if necessary, the dental suspension layer can easily be removed from the mouth by brushing and rinsing.

Skin and subcutaneous tissue disorders:

Very rare (<1/10,000): Irritation in sensitive individuals, angioedema

Respiratory, thoracic and mediastinal disorders:

Very rare/Isolated report (<1/10,000): Asthma

Overdose 4.9

In very high doses, Fluoride has an acute toxic action through inhibition of

enzymes resulting in hypocalcaemia. Doses of several milligrams of Fluoride

per kg body weight may cause nausea and vomiting, and diarrhoea.

Tetany and convulsions can occur, as well as cardiovascular disorders.

The dental suspension layer can easily be removed from the mouth by brushing

and rinsing.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Stomatological preparations, caries prophylactic

agents

ATC code: A01A A01

Sodium Fluoride applied topically after tooth eruption reduces caries by

inhibiting demineralisation and promoting remineralisation of the tooth surface

and by inhibiting the cariogenic microbial process.

Duraphat 50 mg/ml Dental Suspension also reduces dentinal hypersensitivity.

In the management of dental erosion associated with the frequent consumption

of acidic beverages or gastric reflux, high concentration topical Fluoride agents

are considered to be of value. Duraphat is at least as effective as 2% Sodium

Fluoride Solution in inhibiting erosion in vitro

Pharmacokinetic properties 5.2

After oral administration, Fluoride absorption is rapid and extensive (90-100%)

with peak Fluoride plasma levels reached within 30 to 60 minutes after

ingestion. Fluoride is widely distributed through the body and concentrates in

bone and teeth. About 50% of Fluoride is stored. Excretion is primarily through the kidneys with less than 10% being excreted in the faeces and less than 1% in sweat and saliva.

Duraphat covers teeth with a film of suspension which hardens in the presence of saliva and then persists, and which over the following hours causes Fluoride to accumulate at a measurable depth in the tooth enamel.

5.3 Preclinical safety data

The product is used under total control of the dentist and the amount of Fluoride introduced to the patient at one time is within acceptable safety limits. The recommended doses are up to 0.75 ml for permanent dentition. Treatment is recommended every 6 months or a maximum of every three months. For hypersensitivity 2-3 applications are recommended within a few days. These levels of Fluoride introduced are again within acceptable safety limits.

Due to the slow release of Fluoride, the plasma levels are even lower than levels known to produce no side effects in children.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Ethanol 96%

White Wax (E901)

Shellac (E904)

Colophony

Mastic

Saccharin (E954)

Raspberry Essence (containing Ethyl Butyrate, Geraniol, Iris Resinoid, Isoamyl Acetate, Jasmine Absolute, Vanillin and Propylene Glycol).

6.2 Incompatibilities

None known

6.3 Shelf life

Unopened 3 years. For aluminium tube: after opening, use within 3 months.

6.4 Special precautions for storage

Do not store above 25°C

6.5 Nature and contents of container

Boxes of 1 x 10 ml or 5 x 30 ml tubes made of internally lacquer-coated aluminium, externally printed, with white plastic screw cap with sealing plug.

Boxes of 1 x 1.6 ml or 5 x 1.6 ml glass cylinders with a cream bromobutyl rubber stopper and gold aluminium cap at the top and dark blue chlorobutyl rubber stopper at the bottom.

6.6 Instruction for Use/Handling

If necessary the teeth should be cleaned, especially at the sites most susceptible to caries. When groups of patients (e.g. children) are to be treated, they should clean the teeth themselves using a toothbrush.

To start, clear one or two quadrants of excessive saliva using an air syringe (or dabbing with cellulose). Duraphat 50 mg/ml Dental Suspension is applied from the tube using a miniature cotton swab, probe or brush, painting and dabbing repeatedly to form a thin layer. Then treat the next quadrants in the same manner. It is advisable to begin by applying the dental suspension to teeth in the

lower jaw before too much saliva collects and interferes. It may not be necessary to paint the lingual surfaces since these are generally more caries-resistant; Duraphat should preferably be applied to those spots most susceptible to caries attack.

Application of Duraphat from the cylinder is particularly suited to targeted, low-dose application. A blunt cannula is used with the end bent to an angle to facilitate application to approximal and distal surfaces. For application to approximal surfaces place the cannula between adjacent teeth and deliver a small amount of Duraphat. The dental suspension should be applied from both sides of the interproximal space and occlusally.

For fissures, a drop of Duraphat should be spread along the fissure using the cannula. Edges of fillings and crowns and hypersensitive tooth necks can be treated in the same way.

The smooth surfaces of the teeth should be treated when caries activity is high, particularly if decalcification is evident. The cannula should be placed tangentially to the teeth and Duraphat distributed with the side of the curved cannula end.

Areas around fixed orthodontic devices can be treated with Duraphat using the cannula.

The yellowish colour of Duraphat facilitates its application and control. Duraphat sets in the presence of saliva. The effect of Duraphat depends upon the prolonged activity of the Fluoride. The dental suspension film should not be removed prematurely. Patients should be advised not to brush their teeth or chew food for at least 4 hours after treatment; during this time, soft foods and liquids may be consumed. However, if you need to, the dental suspension layer can easily be removed by brushing or rinsing.

Instruments, clothing, etc. which comes into contact with Duraphat can be cleaned with alcohol.

7. MARKETING AUTHORISATION HOLDER

Colgate-Palmolive (UK) Limited

Guildford Business Park

Middleton Road

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GU2 8JZ

8. MARKETING AUTHORISATION NUMBER(S)

PL 0049/0042

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

First Authorisation: 06/03/1998

Renewals: 06/03/2008 and 15/07/2008

10. DATE OF REVISION OF THE TEXT

10 February 2012