

1 **OLUX<sup>TM</sup>** Foam, 0.05%

2 (clobetasol propionate)

3  
4 Rx Only

5 For Dermatologic Use Only

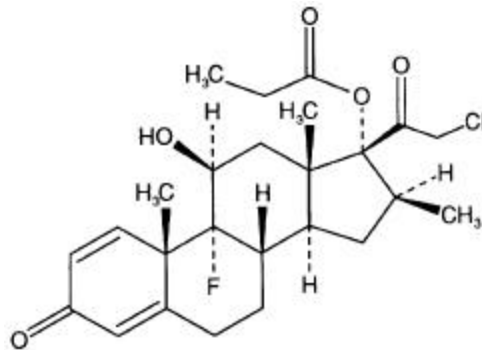
6 Not for Ophthalmic Use

7  
8 **DESCRIPTION**

9 OLUX Foam contains clobetasol propionate, USP, a synthetic corticosteroid, for topical  
10 dermatologic use. Clobetasol, an analog of prednisolone, has a high degree of  
11 glucocorticoid activity and a slight degree of mineralocorticoid activity.

12  
13 Clobetasol propionate is (11 $\beta$ ,16 $\beta$ )-21-chloro-9-fluoro-11-hydroxy-16-methyl-17 (1-  
14 oxopropoxy)-pregna-1,4-diene-3,20-dione, with the empirical formula C<sub>25</sub>H<sub>32</sub>ClFO<sub>5</sub>, a  
15 molecular weight of 466.98 (CAS Registry Number 25122-46-7).

16 The following is the chemical structure:



17  
18  
19  
20 Clobetasol propionate

21 Clobetasol propionate is a white or almost white, odorless, crystalline powder and is  
22 insoluble in water.

23  
24 Each gram of OLUX Foam contains 0.5 mg clobetasol propionate, USP, in a  
25 thermolabile foam, which consists of ethanol (60%), purified water, propylene glycol,  
26 cetyl alcohol, stearyl alcohol, polysorbate 60, citric acid, and potassium citrate. OLUX  
27 Foam is dispensed from an aluminum can pressurized with a hydrocarbon propellant  
28 (propane/butane).

29  
30 **CLINICAL PHARMACOLOGY**

31 Like other topical corticosteroids, clobetasol propionate foam has anti-inflammatory,  
32 antipruritic, and vasoconstrictive properties. The precise mechanism of the anti-  
33 inflammatory activity of topical steroids in the treatment of steroid-responsive  
34 dermatoses, in general, is uncertain. However, corticosteroids are thought to act by the  
35 induction of phospholipase A<sub>2</sub> inhibitory proteins, collectively called lipocortins. It is  
36 postulated that these proteins control the biosynthesis of potent mediators of  
37 inflammation such as prostaglandins and leukotrienes by inhibiting the release of their

38 common precursor arachidonic acid. Arachidonic acid is released from membrane  
39 phospholipids by phospholipase A<sub>2</sub>.

#### 41 **Pharmacokinetics:**

42 Topical corticosteroids can be absorbed from intact healthy skin. The extent of  
43 percutaneous absorption of topical corticosteroids is determined by many factors,  
44 including the vehicle and the integrity of the epidermal barrier. Occlusion, inflammation  
45 and/or other disease processes in the skin may also increase percutaneous absorption.

46  
47 Once absorbed through the skin, topical corticosteroids are handled through  
48 pharmacokinetic pathways similar to systemically administered corticosteroids. Due to  
49 the fact that circulating levels are well below the level of detection, the use of  
50 pharmacodynamic endpoints for assessing the systemic exposure of topical  
51 corticosteroids is necessary. They are metabolized, primarily in the liver, and are then  
52 excreted by the kidneys. In addition, some corticosteroids and their metabolites are also  
53 excreted in the bile.

#### 55 **CLINICAL STUDIES**

56 The safety and efficacy of OLUX Foam has been demonstrated in an adequate and well-  
57 controlled clinical trial conducted in 188 patients with moderate to severe scalp psoriasis.  
58 Patients were treated twice daily for 2 weeks with OLUX Foam, vehicle foam, a  
59 commercially available clobetasol propionate solution (Temovate<sup>®</sup> Scalp Application), or  
60 Vehicle solution. After 2 weeks of treatment, study results of the 188 patients  
61 demonstrated that the efficacy of OLUX Foam in treating scalp psoriasis was superior to  
62 that of vehicle (foam and solution), and was comparable to that of Temovate Scalp  
63 Application (see Table below).

	OLUX Foam n (%)	Vehicle Foam n (%)
Subjects with Scalp Psoriasis Parameter Clear at Endpoint		
Scaling	42 (68)	3 (10)
Erythema	27 (44)	2 (6)
Plaque Thickness	41 (66)	3 (10)
Treatment Successes*	39 (63)	1 (3)
<b>Total number of patients</b>	<b>62</b>	<b>31</b>

65 \*Defined as an Investigator's Global Assessment of "completely clear" or "almost clear," and a plaque thickness  
66 score of 0, an erythema score of 0 or 1, and a scaling score of 0 or 1 at Endpoint, scored on a severity scale of 0-4.  
67

#### 68 **INDICATIONS AND USAGE**

69 OLUX Foam is a super-potent topical corticosteroid indicated for short-term topical  
70 treatment of the inflammatory and pruritic manifestations of moderate to severe  
71 corticosteroid-responsive dermatoses of the scalp.

72  
73 In a controlled pharmacokinetic study 3 of 13 patients experienced reversible  
74 suppression of the adrenal following 14 days of OLUX Foam therapy.  
75 Treatment beyond 2 consecutive weeks is not recommended, and the total dosage  
76 should not exceed 50 g per week because of the potential for the drug to suppress the

77 hypothalamic-pituitary-adrenal (HPA) axis. Use in children under 12 years of age is not  
78 recommended.

79  
80 **CONTRAINDICATIONS**

81 OLUX Foam is contraindicated in patients who are hypersensitive to clobetasol  
82 propionate, to other corticosteroids, or to any ingredient in this preparation.

83  
84 **PRECAUTIONS**

85 **General: Clobetasol propionate is a super potent topical corticosteroid that has**  
86 **been shown to suppress the adrenal at 7.0 g of OLUX Foam per day. Lesser**  
87 **amounts of OLUX Foam were not studied.** Systemic absorption of topical  
88 corticosteroids has caused reversible adrenal suppression with the potential for  
89 glucocorticosteroid insufficiency after withdrawal of treatment. Manifestations of  
90 Cushing's syndrome, hyperglycemia, and glucosuria can also be produced in some  
91 patients by systemic absorption of topical corticosteroids while on treatment.

92  
93 Conditions which augment systemic absorption include the application of the more  
94 potent steroids, use over large surface areas, prolonged use, and the addition of  
95 occlusive dressings.

96  
97 Therefore, patients applying a topical steroid to a large surface area or to areas under  
98 occlusion should be evaluated periodically for evidence of adrenal suppression. If  
99 adrenal suppression is noted, an attempt should be made to withdraw the drug, to  
100 reduce the frequency of application, or to substitute a less potent steroid.

101  
102 Recovery of HPA axis function is generally prompt upon discontinuation of topical  
103 corticosteroids. Infrequently, signs and symptoms of glucocorticosteroid insufficiency  
104 may occur requiring supplemental systemic corticosteroids. For information on systemic  
105 supplementation, see prescribing information for those products.

106  
107 Pediatric patients may be more susceptible to systemic toxicity from equivalent doses  
108 due to their larger skin surface to body mass ratios. (See **PRECAUTIONS-Pediatric**  
109 **Use.**)

110  
111 If irritation develops, OLUX Foam should be discontinued and appropriate therapy  
112 instituted. Allergic contact dermatitis with corticosteroids is usually diagnosed by  
113 observing a failure to heal rather than noting a clinical exacerbation, as with most topical  
114 products not containing corticosteroids. Such an observation should be corroborated  
115 with appropriate diagnostic patch testing.

116  
117 In the presence of dermatological infections, the use of an appropriate antifungal or  
118 antibacterial agent should be instituted. If a favorable response does not occur  
119 promptly, use of OLUX Foam should be discontinued until the infection has been  
120 adequately controlled.

121  
122 **Information for Patients:** Patients using topical corticosteroids should receive the  
123 following information and instructions:

124

- 125 1. This medication is to be used as directed by the physician and should not be used  
126 longer than the prescribed time period. It is for external use only. Avoid contact with  
127 the eyes.
- 128 2. This medication should not be used for any disorder other than that for which it was  
129 prescribed.
- 130 3. The treated scalp area should not be bandaged or otherwise covered or wrapped so  
131 as to be occlusive unless directed by the physician.
- 132 4. Patients should report to their physician any signs of local adverse reactions.

133

134 **Laboratory Tests:** The following tests may be helpful in evaluating patients for adrenal  
135 suppression:

136

- 137 ACTH stimulation test
- 138 A.M. plasma cortisol test
- 139 Urinary free cortisol test

140

141 **Carcinogenesis, Mutagenesis, and Impairment of Fertility:** Long-term animal studies  
142 have not been performed to evaluate the carcinogenic potential of clobetasol propionate.

143

144 Clobetasol propionate was non-mutagenic in three different test systems: the Ames test,  
145 the *Saccharomyces cerevisiae* gene conversion assay, and the *E. coli* B WP2 fluctuation  
146 test.

147

148 Studies in the rat following subcutaneous administration of clobetasol propionate at  
149 dosage levels up to 0.05 mg/kg per day revealed that the females exhibited an increase  
150 in the number of resorbed embryos and a decrease in the number of living fetuses at the  
151 highest dose.

152

153 **Pregnancy: Teratogenic Effects: Pregnancy Category C:** Corticosteroids have been  
154 shown to be teratogenic in laboratory animals when administered systemically at  
155 relatively low dosage levels. Some corticosteroids have been shown to be teratogenic  
156 after dermal application to laboratory animals.

157

158 Clobetasol propionate has not been tested for teratogenicity by the topical route;  
159 however, it is absorbed percutaneously, and when administered subcutaneously, it was  
160 a significant teratogen in both the rabbit and the mouse. Clobetasol propionate has  
161 greater teratogenic potential than steroids that are less potent.

162

163 Teratogenicity studies in mice using the subcutaneous route resulted in fetotoxicity at the  
164 highest dose tested (1 mg/kg) and teratogenicity at all dose levels tested down to 0.03  
165 mg/kg. These doses are approximately 1.4 and 0.04 times, respectively, the human  
166 topical dose of OLUX based on body surface area comparisons. Abnormalities seen  
167 included cleft palate and skeletal abnormalities.

168

169 In rabbits, clobetasol propionate was teratogenic at doses of 0.003 and 0.01 mg/kg.  
170 These doses are approximately 0.02 and 0.05 times, respectively, the human topical  
171 dose of OLUX based on body surface area comparisons. Abnormalities seen included  
172 cleft palate, cranioschisis, and other skeletal abnormalities.  
173

174 There are no adequate and well-controlled studies of the teratogenic potential of  
175 clobetasol propionate in pregnant women. OLUX Foam should be used during  
176 pregnancy only if the potential benefit justifies the potential risk to the fetus.  
177

178 **Drugs of this class should not be used extensively on pregnant patients, in large**  
179 **amounts, or for prolonged periods of time.**

180  
181 ***Nursing Mothers:*** Systemically administered corticosteroids appear in human milk and  
182 could suppress growth, interfere with endogenous corticosteroid production, or cause  
183 other untoward effects. It is not known whether topical administration of corticosteroids  
184 could result in sufficient systemic absorption to produce detectable quantities in breast  
185 milk. Because many drugs are excreted in human milk, caution should be exercised  
186 when OLUX Foam is administered to a nursing woman.  
187

188 ***Pediatric Use:*** Safety and effectiveness of OLUX Foam in pediatric patients have not  
189 been established; therefore, use in children under 12 years of age is not recommended.  
190 Because of a higher ratio of skin surface area to body mass, pediatric patients are at a  
191 greater risk than adults of adrenal suppression and Cushing's syndrome when they are  
192 treated with topical corticosteroids. They are therefore at greater risk of adrenal  
193 insufficiency during and/or after withdrawal of treatment. Adverse effects including striae  
194 have been reported with inappropriate use of topical corticosteroids in infants and  
195 children.  
196

197 Adrenal suppression, Cushing's syndrome, linear growth retardation, delayed weight  
198 gain, and intracranial hypertension have been reported in children receiving topical  
199 corticosteroids. Manifestations of adrenal suppression in children include low plasma  
200 cortisol levels and an absence of response to ACTH stimulation. Manifestations of  
201 intracranial hypertension include bulging fontanelles, headaches, and bilateral  
202 papilledema.  
203

204 ***Geriatric Use:*** Clinical studies of OLUX Foam did not include sufficient numbers of  
205 subjects aged 65 and over to determine whether they respond differently from younger  
206 subjects. Other reported clinical experience has not identified differences in responses  
207 between the elderly and younger patients. In general, dose selection for an elderly  
208 patient should be cautious, usually starting at the low end of the dosing range, reflecting  
209 the greater frequency of decreased hepatic, renal or cardiac function, and of  
210 concomitant disease or other drug therapy.  
211

## 212 **ADVERSE REACTIONS**

213 In a controlled trial (188 patients) with OLUX Foam, the only reported adverse reactions  
214 were one case each of dry skin, eczema, and skin hypertrophy. In larger controlled trials  
215 with other clobetasol propionate formulations, the most frequently reported adverse  
216 reactions have included burning, stinging, irritation, pruritus, erythema, folliculitis,

217 cracking and fissuring of the skin, numbness of the fingers, skin atrophy, and  
218 telangiectasia (all less than 2%).

219

220 The following additional local adverse reactions have been reported with topical  
221 corticosteroids, but they may occur more frequently with the use of occlusive dressings  
222 and higher potency corticosteroids such as OLUX Foam. These reactions are listed in  
223 an approximate decreasing order of occurrence: irritation, dryness, folliculitis, acneiform  
224 eruptions, hypopigmentation, perioral dermatitis, allergic contact dermatitis, secondary  
225 infection, skin atrophy, striae, and miliaria.

226

227 Systemic absorption of topical corticosteroids has produced reversible adrenal  
228 suppression, manifestations of Cushing's syndrome, hyperglycemia, and glucosuria in  
229 some patients.

230

### 231 **OVERDOSAGE**

232 Topically applied OLUX Foam can be absorbed in sufficient amounts to produce  
233 systemic effects. (See **PRECAUTIONS**.)

234

### 235 **DOSAGE AND ADMINISTRATION**

236 Note: For proper dispensing of foam, hold the can upside down and depress the  
237 actuator.

238

239 OLUX Foam should be applied to the affected scalp area twice daily, once in the  
240 morning and once at night. Invert the can and dispense a small amount of OLUX Foam  
241 (up to a maximum of a golf-ball-size dollop) into the cap of the can, onto a saucer or  
242 other cool surface, or directly on the lesion, taking care to avoid contact with the eyes.  
243 Dispensing directly onto hands is not recommended, as the foam will begin to melt  
244 immediately upon contact with warm skin. Move the hair away from the affected area of  
245 the scalp so that the foam can be applied to each affected area. Gently massage into  
246 affected scalp area until the foam disappears. Repeat until entire affected scalp area is  
247 treated.

248

249 OLUX Foam is a super-high-potency topical corticosteroid; therefore, treatment should  
250 be limited to 2 consecutive weeks and amounts greater than 50 g/week should not be  
251 used. Use in pediatric patients under 12 years of age is not recommended.

252

253 Unless directed by a physician, OLUX Foam should not be used with occlusive  
254 dressings.

255

### 256 **HOW SUPPLIED**

257 OLUX Foam is supplied in a 100-gram aluminum can; box of one (NDC 63032-031-00).

258

259 Store at controlled room temperature 68-77°F (20-25°C).

260

### 261 **WARNING**

262 ***FLAMMABLE. AVOID FIRE, FLAME OR SMOKING DURING AND IMMEDIATELY***  
263 ***FOLLOWING APPLICATION.*** Keep out of reach of children. Contents under pressure.

264 Do not puncture or incinerate container. Do not expose to heat or store at temperatures  
265 above 120°F (49°C).

266

267 Manufactured for:  
268 Connetics Corporation  
269 Palo Alto, CA 94303  
270 USA

271

272

273

274

275

276

277

278

279

280

281

282 By:  
283 CCL Pharmaceuticals  
284 Runcorn WA7 1NU  
285 United Kingdom

286

287 LB-0190/L00702      May 26, 2000

288

289

290

291

292  
293

## PATIENT INFORMATION



294  
295  
296

### About OLUX™ Foam

297  
298  
299  
300  
301  
302  
303  
304

Your doctor has prescribed OLUX Foam for the relief of dermatoses of the scalp, such as psoriasis. OLUX Foam works because its active ingredient is clobetasol propionate, 0.05%. Clobetasol propionate belongs to a group of medicines known as topical corticosteroids. These agents are used to reduce the inflammation, redness, swelling, itching, and tenderness associated with dermatologic conditions.

305  
306  
307  
308

Other ingredients in OLUX Foam include ethanol, purified water, propylene glycol, cetyl alcohol, stearyl alcohol, polysorbate 60, citric acid, and potassium citrate. The foam is dispensed from an aluminum can that is pressurized by a hydrocarbon propellant (propane and butane).

309  
310  
311

**If you answer YES to one or more of the following questions, tell your doctor (or pharmacist) before using this medicine, so you can get advice about what to do.**

312  
313  
314  
315  
316  
317  
318  
319

- Are you allergic to any of the ingredients contained in OLUX Foam?
- Are you pregnant? Planning on becoming pregnant while using OLUX Foam? Or are you breastfeeding?
- Do you think you have an infection on your scalp?

320  
321

### How to apply OLUX Foam

322  
323  
324  
325  
326

**Turn the can upside down** and dispense a small amount of OLUX Foam into the cap of the can, onto a clean saucer or other cool, clean surface, or directly onto the lesion, taking care to avoid contact with the eyes. Dispensing directly onto hands is not recommended, as the foam will begin to melt immediately upon contact with warm skin.

327  
328  
329  
330

Move the hair away from the affected area of your scalp so that the foam can be applied to each affected area. Gently massage into the affected scalp area until the foam disappears. Repeat until entire affected scalp area is treated.

331  
332

Apply twice daily, once in the morning and once at night. Use only enough to cover the affected areas.

333  
334  
335

Wash your hands after applying OLUX Foam and discard any unused dispensed medication.

336  
337

Do not wash or rinse the treated areas immediately after applying OLUX Foam.

338  
339  
340  
341  
342

- Use this medication only for the condition for which it was prescribed. OLUX Foam should not be applied to the face, groin, or armpits.
- **OLUX Foam is for external use only.**



343  
344  
345  
346

- **Keep the foam away from your eyes,** as it will sting. If the foam gets into your eyes, rinse well with cold water. If the stinging continues, contact your doctor immediately.

347  
348

## PATIENT INFORMATION



349  
350  
351  
352  
353

### WHAT YOU SHOULD KNOW ABOUT OLUX FOAM:

354  
355

#### **What to do if you miss an application**

356  
357  
358  
359  
360

If you forget to apply OLUX Foam at the scheduled time, use it as soon as you remember, and then go back to your regular schedule. If you remember at or about the time of your next daily application, apply that dose and continue with your normal application schedule. If you miss several doses, tell your doctor.

361  
362

#### **About side effects**

363  
364  
365  
366

As with all medications, there may be some side effects. The most frequent side effects associated with the use of clobetasol propionate formulations include mild burning, stinging, or itching at the site of application. These side effects typically disappear shortly after application.

367  
368

Let your doctor know if you notice any of the following:

369  
370  
371  
372

- Any unusual effects that you do not understand.
- Affected areas that do not seem to be healing after 2 weeks of using the foam.

373  
374

#### **Important safety notes**

375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385

- The treated areas should not be bandaged or covered unless directed by your doctor.
- Keep this and all medicines out of the reach of children.
- Treatment should be limited to 2 consecutive weeks.
- Treatment should be limited to no more than 50 g of medication per week.
- Use in patients under 12 years of age is not recommended.
- Keep the foam away from your eyes.

- 386 • Store the can at controlled room temperature, 68-77°F (20-25°C), and protect it from direct  
387 sunlight, as this is a pressurized container.  
388
- 389 • **Keep away from and do not spray near fire, open flame, or direct heat—this product is**  
390 **flammable.** Do not smoke while using or holding the can. Keep the can away from all  
391 sources of ignition. Do not pierce or burn the can, and never throw the can in a fire, even if  
392 empty.  
393
- 394 • When you have finished your treatment, dispose of the can safely. A completely empty can  
395 is recyclable.  
396
- 397 • Do not use the foam after the expiration date shown on the bottom of the can.  
398
- 399 • Do not give OLUX Foam to anyone else. Your doctor has prescribed this  
400 medicine for your use only.  
401  
402

403 *This pamphlet has been designed to provide you with important information*  
404 *about OLUX Foam, but does not address every aspect of the foam. If, after*  
405 *reading this pamphlet, you have any questions or concerns, please speak with*  
406 *your doctor or pharmacist.*  
407  
408

409 This information applies only to OLUX Foam.  
410 OLUX, the foam icon, and viafoam are trademarks of Connetics Corporation.  
411 © 2000 Connetics Corporation LB-0190 07/99 Printed in USA  
412



413  
414