## CLINDAMYCIN PHOSPHATE AND BENZOYL PEROXIDE- clindamycin phosphate and benzoyl peroxide

Mylan Pharmaceuticals Inc.

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Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%\*/5%
Topical Gel: clindamycin (1%) \*as clindamycin phosphate, benzoyl peroxide (5%)
For Dermatological Use Only – Not for Ophthalmic Use
Mix Before Dispensing

#### **DESCRIPTION**

Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% contains clindamycin phosphate, (7(S)-chloro-7-deoxylincomycin-2-phosphate). Clindamycin phosphate is a water soluble ester of the semi-synthetic antibiotic produced by a 7(S)-chloro-substitution of the 7(R)-hydroxyl group of the parent antibiotic lincomycin.

Chemically, clindamycin phosphate is  $(C_{18}H_{34}ClN_2O_8PS)$ . The structural formula for clindamycin is represented below:

Clindamycin phosphate has a molecular weight of 504.97 and its chemical name is Methyl 7-chloro-6,7,8-trideoxy-6-(1-methyl-trans- 4-propyl-L-2-pyrrolidinecarboxamido) - 1-thio-L- threo-alpha-D-galacto-octopyranoside 2-(dihydrogen phosphate).

Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% also contains benzoyl peroxide, for topical use.

Chemically, benzoyl peroxide is  $(C_{14}H_{10}O_4)$ . It has the following structural formula:

Benzoyl peroxide has a molecular weight of 242.23.

Each gram of Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% contains, as dispensed, 10 mg (1%) clindamycin as phosphate and 50 mg (5%) benzoyl peroxide in a base of carbomer, propylene glycol, potassium hydroxide, and purified water.

#### CLINICAL PHARMACOLOGY

An *in vitro* percutaneous penetration study comparing Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% and topical 1% clindamycin gel alone, demonstrated there was no statistical difference in penetration between the two drugs. Mean systemic bioavailability of topical clindamycin in Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% is suggested to be less than 1%.

Benzoyl peroxide has been shown to be absorbed by the skin where it is converted to benzoic acid. Less than 2% of the dose enters systemic circulation as benzoic acid. It is suggested that the lipophilic nature of benzoyl peroxide acts to concentrate the compound into the lipid-rich sebaceous follicle.

#### **Pharmacokinetics**

The pharmacokinetics (plasma and urine) of clindamycin from Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% was studied in male and female patients (n=13) with acne vulgaris. Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% (~2g) was applied topically to the face and back twice daily for four and a half (4.5) days. Quantifiable (>LOQ=1ng/mL) clindamycin plasma concentrations were obtained in six of thirteen subjects (46.2%) on Day 1 and twelve of thirteen subjects (92.3%) on Day 5. Peak plasma concentrations ( $C_{max}$ ) of clindamycin ranged from 1.47 ng/mL to 2.77 ng/mL on Day 1 and 1.43 ng/mL to 7.18 ng/mL on Day 5. The AUC (0-12h) ranged from 2.74 ng.h/mL to 12.86 ng.h/mL on Day 1 and 11.4 ng.h/mL to 69.7 ng.h/mL on Day 5.

The amount of clindamycin excreted in the urine during the 12 hour dosing interval increased from a mean (SD) of 5745 (3130) ng on Day 1 to 12069 (7660) ng on Day 5. The mean % (SD) of the administered dose that was excreted in the urine ranged from 0.03% (0.02) to 0.08% (0.04).

A comparison of the single (Day 1) and multiple (Day 5) dose plasma urinary concentrations of clindamycin indicates that there is accumulation of clindamycin following multiple dosing of Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%. The degree of accumulation calculated from the plasma and urinary excretion data was ~2-fold.

## Microbiology

The clindamycin and benzoyl peroxide components individually have been shown to have *in vitro* activity against *Propionibacterium* acnes an organism which has been associated with acne vulgaris; however, the clinical significance of this activity against *P. acnes* was not examined in clinical trials with this product.

#### **CLINICAL STUDIES**

In two adequate and well controlled clinical studies of 758 patients, 214 used Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%, 210 used benzoyl peroxide, 168 used clindamycin, and 166 used vehicle. Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% applied twice daily for 10 weeks was significantly more effective than vehicle in the treatment of moderate to moderately severe facial acne vulgaris. Patients were evaluated and acne lesions counted at each clinical visit; weeks 2, 4, 6, 8 and 10. The primary efficacy measures were the lesion counts and the investigator's global assessment evaluated at week 10. Patients were instructed to wash the face with a mild soap, using only the hands. Fifteen minutes after the face was thoroughly dry, application was made to the entire face. Non-medicated make-up could be applied at one hour after the Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% application. If a moisturizer was required, the patients were provided a moisturizer to be used as needed. Patients were instructed to avoid sun exposure. Percent reductions in lesion counts after treatment for 10 weeks in these two studies are shown below in the two tables, Study 1 and Study 2.

## Study 1

Clindamycin Phosphate	Benzoyl Peroxide	Clindamycin	Vehicle
and Benzoyl Peroxide Gel,	n = 120	n = 120	n = 120

1%/5% n = 120			
Mean percent r	eduction in inflammatory lesi	ion counts	
46%	32%	16%	+3%
Mean percent red	uction in non-inflammatory le	esion counts	
22%	22%	9%	+1%
Mean percent reduction in total lesion counts			
36%	28%	15%	0.2%

## Study 2

Clindamycin Phosphate	Benzoyl Peroxide	Clindamycin	Vehicle
and Benzoyl Peroxide Gel,	n = 95	n = 49	n = 48
1%/5%			
n = 95			
Mean percent re	eduction in inflammatory lesi	ion counts	
63%	53%	45%	42%
Mean percent red	Mean percent reduction in non-inflammatory lesion counts		
54%	50%	39%	36%
Mean percent reduction in total lesion counts			
58%	52%	42%	39%

The Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% group showed greater overall improvement than the benzoyl peroxide, clindamycin and vehicle groups as rated by the investigator.

#### INDICATIONS AND USAGE

Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% is indicated for the topical treatment of acne vulgaris.

#### CONTRAINDICATIONS

Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% is contraindicated in those individuals who have shown hypersensitivity to any of its components or to lincomycin. It is also contraindicated in those having a history of regional enteritis, ulcerative colitis, or antibiotic-associated colitis.

#### WARNINGS

ORALLY AND PARENTERALLY ADMINISTERED CLINDAMYCIN HAS BEEN ASSOCIATED WITH SEVERE COLITIS WHICH MAY RESULT IN PATIENT DEATH. USE OF THE TOPICAL FORMULATION OF CLINDAMYCIN RESULTS IN ABSORPTION OF THE ANTIBIOTIC FROM THE SKIN SURFACE. DIARRHEA, BLOODY DIARRHEA, AND COLITIS (INCLUDING PSEUDOMEMBRANOUS COLITIS) HAVE BEEN REPORTED WITH THE USE OF TOPICAL AND SYSTEMIC CLINDAMYCIN. STUDIES INDICATE A TOXIN(S) PRODUCED BY CLOSTRIDIA IS ONE PRIMARY CAUSE OF ANTIBIOTIC-ASSOCIATED COLITIS. THE COLITIS IS USUALLY CHARACTERIZED BY SEVERE PERSISTENT DIARRHEA AND SEVERE ABDOMINAL CRAMPS AND MAY BE ASSOCIATED WITH THE PASSAGE OF BLOOD AND MUCUS. ENDOSCOPIC EXAMINATION MAY REVEAL PSEUDOMEMBRANOUS COLITIS. STOOL CULTURE FOR Clostridium Difficile AND STOOL ASSAY FOR C. difficile TOXIN MAY BE HELPFUL DIAGNOSTICALLY. WHEN SIGNIFICANT DIARRHEA OCCURS, THE DRUG SHOULD BE

DISCONTINUED. LARGE BOWEL ENDOSCOPY SHOULD BE CONSIDERED TO ESTABLISH A DEFINITIVE DIAGNOSIS IN CASES OF SEVERE DIARRHEA. ANTIPERISTALTIC AGENTS SUCH AS OPIATES AND DIPHENOXYLATE WITH ATROPINE MAY PROLONG AND/OR WORSEN THE CONDITION. DIARRHEA, COLITIS, AND PSEUDOMEMBRANOUS COLITIS HAVE BEEN OBSERVED TO BEGIN UP TO SEVERAL WEEKS FOLLOWING CESSATION OF ORAL AND PARENTERAL THERAPY WITH CLINDAMYCIN.

Mild cases of pseudomembranous colitis usually respond to drug discontinuation alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation and treatment with an antibacterial drug clinically effective against *C. difficile* colitis.

#### **PRECAUTIONS**

#### General

For dermatological use only; not for ophthalmic use. Concomitant topical acne therapy should be used with caution because a possible cumulative irritancy effect may occur, especially with the use of peeling, desquamating, or abrasive agents.

The use of antibiotic agents may be associated with the overgrowth of non-susceptible organisms including fungi. If this occurs, discontinue use of this medication and take appropriate measures.

Avoid contact with eyes and mucous membranes.

Clindamycin and erythromycin containing products should not be used in combination. *In vitro* studies have shown antagonism between these two antimicrobials. The clinical significance of this *in vitro* antagonism is not known.

#### **Information for Patients**

Patients using Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% should receive the following information and instructions:

- 1. Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% is to be used as directed by the physician. It is for external use only. Avoid contact with eyes, and inside the nose, mouth, and all mucous membranes, as this product may be irritating.
- 2. This medication should not be used for any disorder other than that for which it was prescribed.
- 3. Patients should not use any other topical acne preparation unless otherwise directed by physician.
- 4. Patients should minimize or avoid exposure to natural or artificial sunlight (tanning beds or UVA/B treatment) while using Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%. To minimize exposure to sunlight, a wide-brimmed hat or other protective clothing should be worn, and a sunscreen with SPF 15 rating or higher should be used.
- 5. Patients who develop allergic symptoms such as severe swelling or shortness of breath should discontinue Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% and contact their physician immediately. In addition, patients should report any signs of local adverse reactions to their physician.
- 6. Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% may bleach hair or colored fabric.
- 7. Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% can be stored at room temperature up to 25°C (77°F) for 3 months. Do not freeze. Discard any unused product after 3 months.
- 8. Before applying Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% to affected areas wash the skin gently, then rinse with warm water and pat dry.

## Carcinogenesis, Mutagenesis, Impairment of Fertility

Benzoyl peroxide has been shown to be a tumor promoter and progression agent in a number of animal studies. The clinical significance of this is unknown.

Benzoyl peroxide in acetone at doses of 5 and 10 mg administered twice per week induced skin tumors in transgenic Tg.AC mice in a study using 20 weeks of topical treatment.

In a 52 week dermal photocarcinogenicity study in hairless mice, the median time to onset of skin tumor formation was decreased and the number of tumors per mouse increased following chronic concurrent topical administration of Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% with exposure to ultraviolet radiation (40 weeks of treatment followed by 12 weeks of observation).

In a 2-year dermal carcinogenicity study in rats, treatment with Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% at doses of 100, 500 and 2000 mg/kg/day caused a dose-dependent increase in the incidence of keratoacanthoma at the treated skin site of male rats. The incidence of keratoacanthoma at the treated site of males treated with 2000 mg/kg/day (8 times the highest recommended adult human dose of 2.5 g Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%, based on mg/m²) was statistically significantly higher than that in the sham- and vehicle-controls.

Genotoxicity studies were not conducted with Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%. Clindamycin phosphate was not genotoxic in *Salmonella typhimurium* or in a rat micronucleus test. Clindamycin phosphate sulfoxide, an oxidative degradation product of clindamycin phosphate and benzoyl peroxide, was not clastogenic in a mouse micronucleus test. Benzoyl peroxide has been found to cause DNA strand breaks in a variety of mammalian cell types, to be mutagenic in *S. typhimurium* tests by some but not all investigators, and to cause sister chromatid exchanges in Chinese hamster ovary cells. Studies have not been performed with Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% or benzoyl peroxide to evaluate the effect on fertility. Fertility studies in rats treated orally with up to 300 mg/kg/day of clindamycin (approximately 120 times the amount of clindamycin in the highest recommended adult human dose of 2.5 grams Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%, based on mg/m2) revealed no effects on fertility or mating ability.

## **Pregnancy**

## **Teratogenic Effects**

## Pregnancy Category C

Animal reproductive/developmental toxicity studies have not been conducted with Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% or benzoyl peroxide. Developmental toxicity studies performed in rats and mice using oral doses of clindamycin up to 600 mg/kg/day (240 and 120 times amount of clindamycin in the highest recommended adult human dose based on mg/m2, respectively) or subcutaneous doses of clindamycin up to 250 mg/kg/day (100 and 50 times the amount of clindamycin in the highest recommended adult human dose based on mg/m2, respectively) revealed no evidence of teratogenicity.

There are no well-controlled trials in pregnant women treated with Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5%. It also is not known whether Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% can cause fetal harm when administered to a pregnant woman.

## **Nursing Women**

It is not known whether Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% is excreted in human milk after topical application. However, orally and parenterally administered clindamycin has been reported to appear in breast milk. Because of the potential for serious adverse reactions in nursing infants, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

#### Pediatric Use

Safety and effectiveness of this product in pediatric patients below the age of 12 have not been established.

#### ADVERSE REACTIONS

During clinical trials, the most frequently reported adverse event in the Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% treatment group was dry skin (12%). The Table below lists local adverse events reported by at least 1% of patients in the Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% and vehicle groups. The actual incidence of dry skin might have been greater were it not for the use of a moisturizer in these studies.

Anaphylaxis, as well as allergic reactions leading to hospitalization, have been reported during post-marketing use of clindamycin/benzoyl peroxide products. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure.

## **Local Adverse Events - all causalities in >/= 1% of patients**

	Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% n = 420	Vehicle n = 168
Application Site Reaction	13 (3%)	1 (< 1%)
Dry Skin	50 (12%)	10 (6%)
Pruritis	8 (2%)	1 (< 1%)
Peeling	9 (2%)	-
Erythema	6 (1%)	1 (< 1%)
Sunburn	5 (1%)	-

## DOSAGE AND ADMINISTRATION

Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% should be applied twice daily, morning and evening, or as directed by a physician, to affected areas after the skin is gently washed, rinsed with warm water and patted dry.

#### HOW SUPPLIED AND COMPOUNDING INSTRUCTIONS

**Prior to dispensing,** add the solution in the bottle to the gel and stir until homogenous in appearance (1 to 1-1/2 minutes). Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%/5% can be stored at room temperature up to 25°C (77°F) for 3 months. Place a 3 month expiration date on the labeling immediately following mixing.

Size	NDC #	Benzoyl	Clindamycin Phosphate
(Net Weight)		Peroxide Gel	Solution (in plastic bottle)
50 grams	0378-8688-54	40 grams	10 grams
25 grams	0378-8688-35	20 grams	5 grams

Store at room temperature up to 25°C (77°F) [See USP].

Do not freeze. Keep tightly closed. Keep out of the reach of children.

Prescribing Information as of July 2017.

Rx Only

Distributed by:

Mylan Pharmaceuticals Inc.

Morgantown, WV 26505 U.S.A.

Manufactured by:

Mylan Institutional Inc.

Sugar Land, TX 77478 U.S.A.

1188.7

Revised: 7/2017 MI:CLBZPX:R7

#### PRINCIPAL DISPLAY PANEL – 1%/5%

NDC 0378-8688-35

Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%\*/5%

For Topical Use Only

Rx only

one 25 gram jar (after admixing)

#### TO THE PHARMACIST:

Important: Prior to dispensing, add the solution in the bottle to the gel and stir until homogenous in appearance (1 to 11/2 minutes). Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%\*/5% can be stored at room temperature up to 25°C (77°F) for 3 months. Place a 3 month expiration date on the labeling immediately following mixing.

Each gram of Clindamycin Phosphate and Benzoyl Peroxide Gel, 1%\*/5% as dispensed, contains 10 mg (1%) \*clindamycin as phosphate and 50 mg (5%) benzoyl peroxide in a base of carbomer, propylene glycol, potassium hydroxide, and purified water.

**Usual Dosage:** Apply twice daily, morning and evening, or as directed by physician, to affected areas after the skin is gently washed, rinsed with warm water and patted dry. See package insert for full prescribing information. Use within 3 months after mixing.

Store at room temperature up to 25°C (77°F) [see USP]. Do not freeze. Keep tightly closed.

**Precautions:** For external use only. Avoid contact with eyes. **Keep this and all medications out of the reach of children.** May bleach fabric or hair.

Distributed by:

**Mylan Pharmaceuticals Inc.**Morgantown, WV 26505 U.S.A.

Manufactured by:

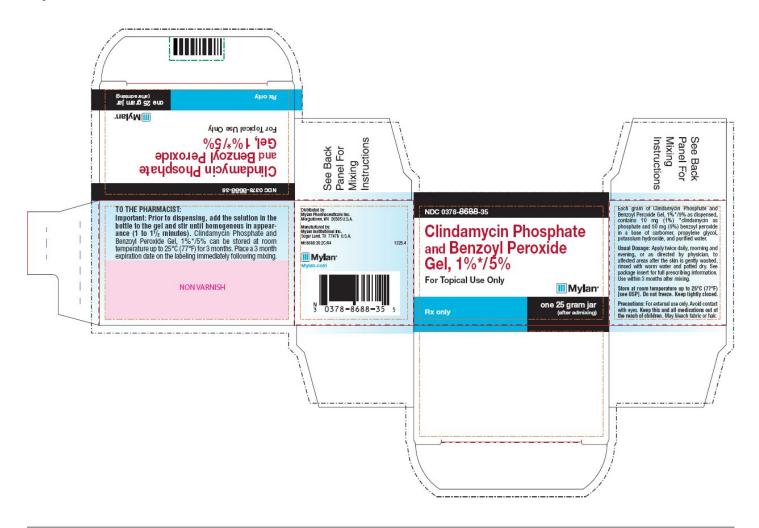
Mylan Institutional Inc.

Sugar Land, TX 77478 U.S.A.

MI:8688:35:2C:R4

1225.4

## Mylan.com



## CLINDAMYCIN PHOSPHATE AND BENZOYL PEROXIDE

clindamycin phosphate and benzoyl peroxide kit

#### **Product Information**

Product Type HUMAN PRESCRIPTION DRUG Item Code (Source) NDC:0378-8688

P	acl	kag	in	g

l	# Item Code	Package Description	Marketing Start Date	Marketing End Date
ı	1 NDC:0378-8688-35	1 in 1 CARTON; Type 0: Not a Combination Product	08/25/2009	
ı	2 NDC:0378-8688-54	1 in 1 CARTON; Type 0: Not a Combination Product	08/25/2009	

## **Quantity of Parts**

Part #	Package Quantity	Total Product Quantity
Part 1	1 BOTTLE, PLASTIC	5 g
Part 2	1 JAR	20 g
Part 3	1 BOTTLE, PLASTIC	10 g
Part 4	1 JAR	40 g

## Part 1 of 4

## **CLINDAMYCIN PHOSPHATE**

clindamycin solution

## **Product Information**

Route of Administration TOPICAL

## **Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength
CLINDAMYCIN PHO SPHATE (UNII: EH6 D711318) (CLINDAMYCIN - UNII:3U02EL437C)	CLINDAMYCIN	5 mg in 1 g

Inactive Ingredients	
Ingredient Name	Strength
CARBO XYPO LYMETHYLENE (UNII: 0 A5MM307FC)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
POTASSIUM HYDROXIDE (UNII: WZH3C48 M4T)	
WATER (UNII: 059QF0KO0R)	

	Packaging			
ı	# Item Code	Package Description	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
	1	5 g in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product		

# Marketing InformationMarketing CategoryApplication Number or Monograph CitationMarketing Start DateMarketing End DateANDAANDA06544308/25/2009

## Part 2 of 4

## **BENZOYL PEROXIDE**

benzoyl peroxide gel

## **Product Information**

Route of Administration TOPICAL

## **Active Ingredient/Active Moiety**

Ingredient Name	Basis of Strength	Strength

BENZOYL PEROXIDE (UNII: W9 WZN9 A0 GM) (BENZOYL PEROXIDE - UNII: W9 WZN9 A0 GM) BENZOYL PEROXIDE | 25 mg in 1 g

## **Packaging**

п					
l	#	Item Code	Package Description	<b>Marketing Start Date</b>	Marketing End Date
ı	1		20 g in 1 JAR; Type 0: Not a Combination Product		

## **Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065443	08/25/2009	

## Part 3 of 4

## **CLINDAMYCIN PHOSPHATE**

clindamycin solution

## **Product Information**

Route of Administration TOPICAL

## **Active Ingredient/Active Moiety**

ı					
I		Ingredient Name		Basis of Strength	Strength
I	CLINDAMYCIN PHO SPHATE (UN	III: EH6 D7113I8) (CLINDAMYCIN	- UNII:3U02EL437C)	CLINDAMYCIN	10 mg in 1 g

## Inactive Ingredients

Ingredient Name	Strength
CARBO XYPO LYMETHYLENE (UNII: 0 A5MM307FC)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
PO TASSIUM HYDRO XIDE (UNII: WZH3C48 M4T)	
WATER (UNII: 059QF0KO0R)	

## **Packaging**

# Item Code	Package Description	Marketing Start Date Marketing End Date
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1 10 g in 1 BOTTLE, PLASTIC; Type 0: Not a Combination Product

## **Marketing Information**

Marketing Category Application Number or Monograph Citation Marketing Start Date Marketing End Date

ANDA ANDA065443 08/25/2009

## Part 4 of 4

## **BENZOYL PEROXIDE**

benzoyl peroxide gel

#### **Product Information**

Route of Administration TOPICAL

## **Active Ingredient/Active Moiety**

Ingredient Name Basis of Strength Strength

BENZOYL PEROXIDE (UNII: W9 WZN9 A0 GM) (BENZOYL PEROXIDE - UNII: W9 WZN9 A0 GM) BENZOYL PEROXIDE | 50 mg in 1 g

## **Packaging**

l	#	Item Code	Package Description	Marketing Start Date	Marketing End Date
ı	1		40 g in 1 JAR; Type 0: Not a Combination Product		

## **Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065443	08/25/2009	

## **Marketing Information**

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA065443	08/25/2009	

## **Labeler** - Mylan Pharmaceuticals Inc. (059295980)

Revised: 7/2017 Mylan Pharmaceuticals Inc.