

DAPSONE- dapsone gel
Taro Pharmaceuticals U.S.A., Inc.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use DAPSONE GEL safely and effectively. See full prescribing information for DAPSONE GEL.

DAPSONE gel, for topical use

Initial U.S. Approval: 1955

----- **INDICATIONS AND USAGE** -----

Dapsone gel is indicated for the topical treatment of acne vulgaris (1).

----- **DOSAGE AND ADMINISTRATION** -----

- Apply twice daily (2).
- Apply approximately a pea-sized amount of dapsone gel, 5%, in a thin layer to the acne affected area (2).
- If there is no improvement after 12 weeks, treatment with dapsone gel, 5%, should be reassessed (2).
- For topical use only. Not for oral, ophthalmic, or intravaginal use (2).

----- **DOSAGE FORMS AND STRENGTHS** -----

Gel, 5% (3).

----- **CONTRAINDICATIONS** -----

None (4).

----- **WARNINGS AND PRECAUTIONS** -----

- Methemoglobinemia: Cases of methemoglobinemia have been reported. Discontinue dapsone gel if signs of methemoglobinemia occur (5.1).
- Hematologic Effects: Some subjects with G6PD deficiency using dapsone gel developed laboratory changes suggestive of hemolysis (5.2)(8.6).

----- **ADVERSE REACTIONS** -----

Most common adverse reactions (incidence \geq 10%) are oiliness/peeling, dryness and erythema at the application site (6).

To report SUSPECTED ADVERSE REACTIONS, contact Taro Pharmaceuticals U.S.A., Inc. at 1-866-923-4914 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

----- **DRUG INTERACTIONS** -----

- Trimethoprim/sulfamethoxazole (TMP/SMX) increases the level of dapsone and its metabolites (7.1).
- Topical benzoyl peroxide used at the same time as dapsone gel may result in temporary local yellow or orange skin discoloration (7.2).

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: 6/2018

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Dapsone Gel, 5%, is indicated for the topical treatment of acne vulgaris.

2 DOSAGE AND ADMINISTRATION

For topical use only. Not for oral, ophthalmic, or intravaginal use.

After the skin is gently washed and patted dry, apply approximately a pea-sized amount of dapsone gel, 5%, in a thin layer to the acne affected areas twice daily. Rub in dapsone gel, 5%, gently and completely. Dapsone gel, 5%, is gritty with visible drug substance particles. Wash hands after application of dapsone gel, 5%.

If there is no improvement after 12 weeks, treatment with dapsone gel, 5%, should be reassessed.

3 DOSAGE FORMS AND STRENGTHS

Gel, 5%. Each gram of dapsone gel contains 50 mg of dapsone in a white to pale yellowish gel.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Methemoglobinemia

Cases of methemoglobinemia, with resultant hospitalization, have been reported postmarketing in association with dapson gel, 5% treatment. Patients with glucose-6-phosphate dehydrogenase deficiency or congenital or idiopathic methemoglobinemia are more susceptible to drug-induced methemoglobinemia. Avoid use of dapson gel, 5% in those patients with congenital or idiopathic methemoglobinemia.

Signs and symptoms of methemoglobinemia may be delayed some hours after exposure. Initial signs and symptoms of methemoglobinemia are characterized by a slate grey cyanosis seen in, e.g., buccal mucous membranes, lips and nail beds. Advise patients to discontinue dapson gel, 5% and seek immediate medical attention in the event of cyanosis.

Dapson can cause elevated methemoglobin levels particularly in conjunction with methemoglobin-inducing agents.

5.2 Hematologic Effects

Oral dapson treatment has produced dose-related hemolysis and hemolytic anemia. Individuals with glucose-6-phosphate dehydrogenase (G6PD) deficiency are more prone to hemolysis with the use of certain drugs. G6PD deficiency is most prevalent in populations of African, South Asian, Middle Eastern, and Mediterranean ancestry.

Some subjects with G6PD deficiency using dapson gel developed laboratory changes suggestive of hemolysis. There was no evidence of clinically relevant hemolysis or anemia in patients treated with dapson gel, 5%, including patients who were G6PD deficient.

Discontinue dapson gel, 5%, if signs and symptoms suggestive of hemolytic anemia occur. Avoid use of dapson gel, 5% in patients who are taking oral dapson or antimalarial medications because of the potential for hemolytic reactions. Combination of dapson gel, 5%, with trimethoprim/sulfamethoxazole (TMP/SMX) may increase the likelihood of hemolysis in patients with G6PD deficiency.

5.3 Peripheral Neuropathy

Peripheral neuropathy (motor loss and muscle weakness) has been reported with oral dapson treatment. No events of peripheral neuropathy were observed in clinical trials with topical dapson gel, 5% treatment.

5.4 Skin

Skin reactions (toxic epidermal necrolysis, erythema multiforme, morbilliform and scarlatiniform reactions, bullous and exfoliative dermatitis, erythema nodosum, and urticaria) have been reported with oral dapson treatment. These types of skin reactions were not observed in clinical trials with topical dapson gel, 5% treatment.

6 ADVERSE REACTIONS

6.1 Clinical Studies Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Serious adverse reactions reported in subjects treated with dapson gel, 5%, during clinical trials included but were not limited to the following:

- Nervous system/Psychiatric – Suicide attempt, tonic clonic movements.
- Gastrointestinal – Abdominal pain, severe vomiting, pancreatitis.

- Other – Severe pharyngitis

In the clinical trials, a total of 12 out of 4032 subjects were reported to have depression (3 of 1660 treated with vehicle and 9 of 2372 treated with dapsonе gel, 5%). Psychosis was reported in 2 of 2372 subjects treated with dapsonе gel, 5%, and in 0 of 1660 subjects treated with vehicle.

Combined contact sensitization/irritation studies with dapsonе gel, 5%, in 253 healthy subjects resulted in at least 3 subjects with moderate erythema. Dapsonе gel, 5%, did not induce phototoxicity or photoallergy in human dermal safety studies.

Dapsonе gel, 5%, was evaluated for 12 weeks in four controlled trials for local cutaneous events in 1819 subjects. The most common events reported from these studies include oiliness/peeling, dryness, and erythema. These data are shown by severity in Table 1 below.

Table 1 – Application Site Adverse Reactions by Maximum Severity

Application Site Event	Dapsonе Gel 5% (N=1819)			Vehicle (N=1660)		
	Mild	Moderate	Severe	Mild	Moderate	Severe
Erythema	9%	5%	<1%	9%	6%	<1%
Dryness	14%	3%	<1%	14%	4%	<1%
Oiliness/Peeling	13%	6%	<1%	15%	6%	<1%

The adverse reactions occurring in at least 1% of subjects in either arm in the four vehicle controlled trials are presented in Table 2.

Table 2 – Adverse Reactions Occurring in at least 1% of Subjects

	Dapsonе Gel 5% (N=1819)	Vehicle (N=1660)
Application Site Reaction NOS	18%	20%
Application Site Dryness	16%	17%
Application Site Erythema	13%	14%
Application Site Burning	1%	2%
Application Site Pruritus	1%	1%
Pyrexia	1%	1%
Nasopharyngitis	5%	6%
Upper Respiratory Tract Inf. NOS	3%	3%
Sinusitis NOS	2%	1%
Influenza	1%	1%
Pharyngitis	2%	2%
Cough	2%	2%
Joint Sprain	1%	1%
Headache NOS	4%	4%

NOS = Not otherwise specified

One subject treated with dapsonе gel in the clinical trials had facial swelling which led to discontinuation of medication.

In addition, 486 subjects were evaluated in a 12 month safety trial. The adverse event profile in this trial was consistent with that observed in the vehicle-controlled trials.

6.2 Experience with Oral Use of Dapsone

Although not observed in the clinical trials with dapsone gel (topical dapsone) serious adverse reactions have been reported with oral use of dapsone, including agranulocytosis, hemolytic anemia, peripheral neuropathy (motor loss and muscle weakness), and skin reactions (toxic epidermal necrolysis, erythema multiforme, morbilliform and scarlatiniform reactions, bullous and exfoliative dermatitis, erythema nodosum, and urticaria).

6.3 Postmarketing Experience

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.

The following adverse reactions have been identified during post-approval use of topical dapsone: methemoglobinemia, rash (including erythematous rash, application site rash) and swelling of face (including lip swelling, eye swelling).

7 DRUG INTERACTIONS

7.1 Trimethoprim-Sulfamethoxazole

A drug-drug interaction study evaluated the effect of the use of dapsone gel, 5%, in combination with double strength (160 mg/800 mg) trimethoprim-sulfamethoxazole (TMP/SMX). During co-administration, systemic levels of TMP and SMX were essentially unchanged. However, levels of dapsone and its metabolites increased in the presence of TMP/SMX. Systemic exposure (AUC_{0-12}) of dapsone and N-acetyl-dapsone (NAD) were increased by about 40% and 20% respectively in the presence of TMP/SMX. Notably, systemic exposure (AUC_{0-12}) of dapsone hydroxylamine (DHA) was more than doubled in the presence of TMP/SMX. Exposure from the proposed topical dose is about 1% of that from the 100 mg oral dose, even when co-administered with TMP/SMX.

7.2 Topical Benzoyl Peroxide

Topical application of dapsone gel followed by benzoyl peroxide in subjects with acne vulgaris resulted in a temporary local yellow or orange discoloration of the skin and facial hair (reported by 7 out of 95 subjects in a clinical study) with resolution in 4 to 57 days.

7.3 Drug Interactions with Oral Dapsone

Certain concomitant medications (such as rifampin, anticonvulsants, St. John's wort) may increase the formation of dapsone hydroxylamine, a metabolite of dapsone associated with hemolysis. With oral dapsone treatment, folic acid antagonists such as pyrimethamine have been noted to possibly increase the likelihood of hematologic reactions.

7.4 Concomitant Use with Drugs that Induce Methemoglobinemia

Concomitant use of dapsone gel with drugs that induce methemoglobinemia such as sulfonamides, acetaminophen, acetanilide, aniline dyes, benzocaine, chloroquine, dapsone, naphthalene, nitrates and nitrites, nitrofurantoin, nitroglycerin, nitroprusside, pamaquine, para-aminosalicylic acid, phenacetin, phenobarbital, phenytoin, primaquine, and quinine may increase the risk for developing methemoglobinemia [see *Warnings and Precautions (5.1)*].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no available data on dapsone gel, 5%, use in pregnant women to inform a drug-associated risk

for adverse developmental outcomes. In animal reproduction studies, oral doses of dapsones administered to pregnant rats and rabbits during organogenesis that resulted in systemic exposures more than 250 times the systemic exposure at the maximum recommended human dose (MRHD) of dapsones gel, 5%, resulted in embryocidal effects. When orally administered to rats from the onset of organogenesis through the end of lactation at systemic exposures approximately 400 times the exposure at the MRHD, dapsones resulted in increased stillbirths and decreased pup weight [see Data].

The estimated background risks of major birth defects and miscarriage for the indicated population are unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

Data

Animal Data

Dapsones has been shown to have an embryocidal effect in rats and rabbits when administered orally daily to females during organogenesis at dosages of 75 mg/kg/day and 150 mg/kg/day, respectively. These dosages resulted in systemic exposures that represented approximately 956 times [rats] and 289 times [rabbits] the systemic exposure observed in human females as a result of use of the MRHD of dapsones gel, 5%, based on AUC comparisons. These effects were probably secondary to maternal toxicity.

Dapsones was assessed for effects on perinatal/postnatal pup development and postnatal maternal behavior and function in a study in which dapsones was orally administered to female rats daily beginning on the seventh day of gestation and continuing until the twenty-seventh day postpartum. Maternal toxicity (decreased body weight and food consumption) and developmental effects (increase in stillborn pups and decreased pup weight) were seen at a dapsones dose of 30 mg/kg/day (approximately 382 times the systemic exposure that is associated with the MRHD of dapsones gel, 5%, based on AUC comparisons). No effects were observed on the viability, physical development, behavior, learning ability, or reproductive function of surviving pups.

8.2 Lactation

Risk Summary

There is no information regarding the presence of topical dapsones in breastmilk, the effects on the breastfed infant, or the effects on milk production. Orally administered dapsones appears in human milk and could result in hemolytic anemia and hyperbilirubinemia especially in infants with G6PD deficiency. Systemic absorption of dapsones following topical application is minimal relative to oral dapsones administration; however, it is known that dapsones is present in human milk following administration of oral dapsones.

8.4 Pediatric Use

Safety and efficacy was evaluated in 1169 children aged 12 to 17 years old treated with dapsones gel, 5%, in the clinical trials. The adverse event rate for dapsones gel, 5%, was similar to the vehicle control group. Safety and efficacy was not studied in pediatric patients less than 12 years of age, therefore dapsones gel, 5%, is not recommended for use in this age group.

8.5 Geriatric Use

Clinical trials of dapsones gel, 5%, did not include sufficient number of subjects aged 65 and over to determine whether they respond differently from younger subjects.

8.6 G6PD Deficiency

Dapsones gel, 5% and vehicle were evaluated in a randomized, double-blind, cross-over design clinical trial of 64 subjects with G6PD deficiency and acne vulgaris. Subjects were Black (88%), Asian (6%), Hispanic (2%) or of other racial origin (5%). Blood samples were taken at Baseline, Week 2, and Week

12 during both vehicle and dapsone gel, 5% treatment periods. There were 56 out of 64 subjects who had a Week 2 blood draw and applied at least 50% of treatment applications. Table 3 contains results from testing of relevant hematology parameters for these two treatment periods. Dapsone gel was associated with a 0.32 g/dL drop in hemoglobin after two weeks of treatment, but hemoglobin levels generally returned to baseline levels at Week 12.

Table 3 – Mean Hemoglobin, Bilirubin, and Reticulocyte Levels in Acne Subjects with G6PD Deficiency in Dapsone Gel/Vehicle Cross-Over Study

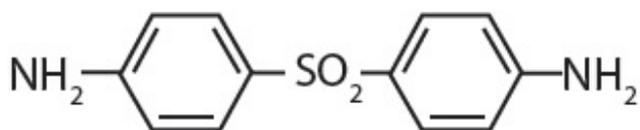
		Dapsone Gel, 5%		Vehicle	
		N	Mean	N	Mean
Hemoglobin (g/dL)	Pre-treatment	53	13.44	56	13.36
	2 weeks	53	13.12	55	13.34
	12 weeks	50	13.42	50	13.37
Bilirubin (mg/dL)	Pre-treatment	54	0.58	56	0.55
	2 weeks	53	0.65	55	0.56
	12 weeks	50	0.61	50	0.62
Reticulocytes (%)	Pre-treatment	53	1.30	55	1.34
	2 weeks	53	1.51	55	1.34
	12 weeks	50	1.48	50	1.41

There were no changes from baseline in haptoglobin or lactate dehydrogenase during dapsone gel or vehicle treatment at either the 2-week or 12-week time point.

The proportion of subjects who experienced decreases in hemoglobin ≥ 1 g/dL was similar between dapsone gel, 5% and vehicle treatment (8 of 58 subjects had such decreases during dapsone gel treatment compared to 7 of 56 subjects during vehicle treatment among subjects with at least one on-treatment hemoglobin assessment). Subgroups based on gender, race, or G6PD enzyme activity did not display any differences in laboratory results from the overall study group. There was no evidence of clinically significant hemolytic anemia in this study. Some of these subjects developed laboratory changes suggestive of hemolysis.

11 DESCRIPTION

Dapsone gel, 5%, contains dapsone, USP a sulfone, in an aqueous gel base for topical dermatologic use. Dapsone gel, 5% is a gritty translucent material with visible drug substance particles. Chemically, dapsone has an empirical formula of $C_{12}H_{12}N_2O_2S$. It is a white, odorless crystalline powder that has a molecular weight of 248. Dapsone's chemical name is 4,4'-diaminodiphenylsulfone and its structural formula is:



Each gram of dapsone gel, 5%, contains 50 mg of dapsone, USP, in a gel of carbomer homopolymer type C, diethylene glycol monoethyl ether, methylparaben, purified water and sodium hydroxide.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of dapson e gel in treating acne vulgaris is not known.

12.3 Pharmacokinetics

An open-label study compared the pharmacokinetics of dapson e after dapson e gel, 5%, (110 ± 60 mg/day) was applied twice daily (~BSA 22.5%) for 14 days (n=18) with a single 100 mg dose of oral dapson e administered to a subgroup of patients (n=10) in a crossover design. On Day 14 the mean dapson e AUC_{0-24h} was 415 ± 224 ng·h/mL for dapson e gel, 5%, whereas following a single 100 mg dose of oral dapson e the AUC_{0-infinity} was 52,641 ± 36,223 ng·h/mL. Exposure after the oral dose of 100 mg dapson e was approximately 100 times greater than after the topical dapson e gel, 5% dose, twice a day.

In a long-term safety study of dapson e gel, 5% treatment, periodic blood samples were collected up to 12 months to determine systemic exposure of dapson e and its metabolites in approximately 500 patients. Based on the measurable dapson e concentrations from 408 patients (M=192, F=216), obtained at month 3, neither gender, nor race appeared to affect the pharmacokinetics of dapson e. Similarly, dapson e exposures were approximately the same between the age groups of 12 to 15 years (N=155) and those greater than or equal to 16 years (N=253). There was no evidence of increasing systemic exposure to dapson e over the study year in these patients.

12.4 Microbiology

In Vivo Activity: No microbiology or immunology studies were conducted during dapson e gel clinical trials.

Drug Resistance: No dapson e resistance studies were conducted during dapson e gel clinical trials. Because no microbiology studies were done, there are no data available as to whether dapson e treatment may have resulted in decreased susceptibility of *Propionibacterium acnes*, an organism associated with acne, to other antimicrobials that may be used to treat acne. Therapeutic resistance to dapson e has been reported for *Mycobacterium leprae*, when patients have been treated with oral dapson e.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Dapson e was not carcinogenic to rats when orally administered to females for 92 weeks or males for 100 weeks at dose levels up to 15 mg/kg/day (approximately 231 times the systemic exposure observed in humans as a result of use of the MRHD of dapson e gel, 5%, based on AUC comparisons).

No evidence of potential to induce carcinogenesis was observed in a dermal study in which dapson e gel was topically applied to Tg.AC transgenic mice for approximately 26 weeks. Dapson e concentrations of 3%, 5%, and 10% were evaluated; 3% material was judged to be the maximum tolerated dosage.

Dapson e was negative in a bacterial reverse mutation assay (Ames test), and was negative in a micronucleus assay conducted in mice. Dapson e was positive (clastogenic) in a chromosome aberration assay conducted with Chinese hamster ovary (CHO) cells.

The effects of dapson e on fertility and general reproductive performance were assessed in male and female rats following oral dosing. Dapson e reduced sperm motility at dosages of 3 mg/kg/day or greater (approximately 15 times the systemic exposure that is associated with the MRHD of dapson e gel, 5%, based on AUC comparisons) when administered daily beginning 63 days prior to mating and continuing through the mating period. The mean numbers of embryo implantations and viable embryos were significantly reduced in untreated females mated with males that had been dosed at 12 mg/kg/day or greater (approximately 127 times the systemic exposure that is associated with the MRHD of dapson e gel, 5%, based on AUC comparisons), presumably due to reduced numbers or effectiveness of sperm, indicating impairment of fertility. When administered to female rats at a dosage of 75 mg/kg/day

(approximately 956 times the systemic exposure that is associated with the MRHD of dapsone gel, 5%, based on AUC comparisons) for 15 days prior to mating and for 17 days thereafter, dapsone reduced the mean number of implantations, increased the mean early resorption rate, and reduced the mean litter size. These effects probably were secondary to maternal toxicity.

14 CLINICAL STUDIES

Two randomized, double-blind, vehicle-controlled, clinical trials were conducted to evaluate dapsone gel, 5%, for the treatment of subjects with acne vulgaris (N=1475 and 1525). The trials were designed to enroll subjects 12 years of age and older with 20 to 50 inflammatory and 20 to 100 non-inflammatory lesions at baseline. In these trials, subjects applied either dapsone gel, 5%, or vehicle control twice daily for up to 12 weeks. Efficacy was evaluated in terms of success on the Global Acne Assessment Score (no or minimal acne) and in the percent reduction in inflammatory, non-inflammatory, and total lesions.

The Global Acne Assessment Score was a 5-point scale as follows:

- 0 None: no evidence of facial acne vulgaris
- 1 Minimal: few non-inflammatory lesions (comedones) are present; a few inflammatory lesions (papules/pustules) may be present
- 2 Mild: several to many non-inflammatory lesions (comedones) are present; a few inflammatory lesions (papules/pustules) are present
- 3 Moderate: many non-inflammatory (comedones) and inflammatory lesions (papules/pustules) are present; no nodulo-cystic lesions are allowed
- 4 Severe: significant degree of inflammatory disease; papules/pustules are a predominant feature; a few nodulo-cystic lesions may be present; comedones may be present.

The success rates on the Global Acne Assessment Score (no or minimal acne) at Week 12 are presented in Table 4.

Table 4 - Success (No or Minimal Acne) on the Global Acne Assessment Score at Week 12

	Study 1*		Study 2*	
	Dapsone Gel, 5% N=699	Vehicle N=687	Dapsone Gel, 5% N=729	Vehicle N=738
Subjects with No or Minimal Acne	291 (42%)	223 (32%)	253 (35%)	206 (28%)

* Analysis excludes subjects classified with minimal acne at baseline

Table 5 presents the mean percent reduction in inflammatory, non-inflammatory, and total lesions from baseline to Week 12.

Table 5 - Percent Reduction in Lesions from Baseline to Week 12

	Study 1		Study 2	
	Dapsone Gel, 5% N=745	Vehicle N=740	Dapsone Gel, 5% N=761	Vehicle N=764
Inflammatory	46%	42%	48%	40%
Non-Inflammatory	31%	24%	30%	21%

Total	38%	32%	37%	29%
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The clinical trials enrolled about equal proportions of male and female subjects. Female subjects tended to have greater percent reductions in lesions and greater success on the Global Acne Assessment Score than males. The breakdown by race in the clinical trials was about 73% Caucasian, 14% Black, 9% Hispanic, and 2% Asian. Efficacy results were similar across the racial subgroups.

16 HOW SUPPLIED/STORAGE AND HANDLING

Dapsone Gel, 5%, is supplied in the following size tubes:

NDC 51672-1387-2	30 gram laminate tube
NDC 51672-1387-3	60 gram laminate tube
NDC 51672-1387-8	90 gram laminate tube

Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from freezing.

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling (Patient Information).

Hematological Effects

- Inform patients that methemoglobinemia can occur with topical dapsone treatment. Advise patients to seek immediate medical attention if they develop cyanosis [see *Warnings and Precautions (5.1)*].
- Inform patients who have G6PD deficiency that hemolytic anemia may occur with topical dapsone treatment. Advise patients to seek medical attention if they develop signs and symptoms suggestive of hemolytic anemia [see *Warnings and Precautions (5.2)*].

Important Administration Instructions

- Advise patients to apply Dapsone Gel, 5%, twice daily to the acne affected area [see *Dosage and Administration (2)*].
- Dapsone Gel, 5% is for topical use only.
- Do not apply Dapsone Gel, 5% to eyes, mouth, or mucous membranes.

Manufactured by: Taro Pharmaceuticals Inc., Brampton, Ontario, Canada L6T 1C1

Distributed by: **Taro Pharmaceuticals U.S.A., Inc.** Hawthorne, NY 10532

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PATIENT INFORMATION Dapsone (dap' sone) Gel, 5%
Important: For use on skin only (topical use). Do not use Dapsone Gel, 5% in or on your mouth, eyes, or vagina.
What is Dapsone Gel, 5%? Dapsone Gel, 5% is a prescription medicine used on your skin (topical) to treat acne vulgaris. Dapsone Gel has not been studied in children under 12 years of age.
Before using Dapsone Gel, 5%, tell your doctor about all of your medical conditions, including if you: <ul style="list-style-type: none"> • Have glucose-6-phosphate dehydrogenase deficiency (G6PD)

- Have higher than normal levels of methemoglobin in your blood (methemoglobinemia)
- Are pregnant or plan to become pregnant. It is not known if Dapsone Gel, 5 % will harm your unborn baby.
- Are breastfeeding or plan to breastfeed. Dapsone Gel, 5% can pass into your breast milk and may harm your baby. You and your doctor should decide if you will use Dapsone Gel, 5% or breastfeed. You should not do both.

Tell your doctor about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Especially tell your doctor if you are using acne medicines that contain benzoyl peroxide. Use of benzoyl peroxide with Dapsone Gel, 5% at the same time may cause your skin or facial hair to temporarily turn yellow or orange at the site of application.

How should I use Dapsone Gel, 5% ?

- Use Dapsone Gel, 5% exactly as your doctor tells you.
- Apply Dapsone Gel, 5% twice a day.
- Gently wash and pat dry the areas of your skin where you will apply Dapsone Gel, 5%.
- Apply a pea-sized amount of Dapsone Gel, 5% in a thin layer to the areas of your skin that have acne.
- Rub Dapsone Gel, 5% in gently and completely. It may feel gritty and you may see particles in the gel.
- Make sure to put the cap back on the Dapsone Gel tube. Close it tightly.
- Wash your hands after applying Dapsone Gel, 5%.
- If your acne does not get better after using Dapsone Gel, 5% for 12 weeks, talk to your doctor about continuing treatment.

What are the possible side effects of Dapsone Gel, 5% ?

Dapsone Gel, 5% may cause serious side effects, including:

- **Decrease of oxygen in your blood caused by a certain type of abnormal red blood cell (methemoglobinemia).** Stop using Dapsone Gel, 5% and get medical help right away if your lips, nail beds, or the inside of your mouth turns grey or blue.
- **Breakdown of red blood cells (hemolytic anemia).** Some people with G6PD deficiency using Dapsone Gel, 5% have developed mild hemolytic anemia. Stop using Dapsone Gel, 5% and tell your doctor right away if you get any of the following signs and symptoms:
 - back pain
 - shortness of breath
 - tiredness or weakness
 - dark brown urine
 - fever
 - yellow or pale skin

The most common side effects of Dapsone Gel, 5% include oiliness, peeling, dryness, and redness of the skin being treated.

These are not all of the possible side effects of Dapsone Gel, 5%. Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store Dapsone Gel, 5% ?

- Store Dapsone Gel, 5% at room temperature, 68° to 77°F (20° to 25°C).
- Protect Dapsone Gel, 5% from freezing.

Keep Dapsone Gel, 5% and all medicines out of the reach of children.

General information about the safe and effective use of Dapsone Gel, 5% ?

Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. Do not use Dapsone Gel, 5% for a condition for which it was not prescribed. Do not give

Dapsone Gel, 5% to other people, even if they have the same symptoms that you have. It may harm them. You can ask your pharmacist or doctor for information about Dapsone Gel, 5% that is written for health professionals.

What are the ingredients in Dapsone Gel, 5%?

Active ingredient: dapsone, USP

Inactive ingredients: carbomer homopolymer type C, diethylene glycol monoethyl ether, methylparaben, purified water and sodium hydroxide

Manufactured by: Taro Pharmaceuticals Inc.

Brampton, Ontario, Canada L6T 1C1

Distributed by:

Taro Pharmaceuticals U.S.A., Inc.

Hawthorne, NY 10532

For more information, call 1-866-923-4914

This Patient Information has been approved by the U.S. Food and Drug Administration.

LPK-8223-2 52

Revised: June, 2018

PRINCIPAL DISPLAY PANEL - 30 g Tube Carton

NDC 51672-1387-2

30 g

Dapsone

Gel 5%

FOR TOPICAL USE ONLY

Rx only

Keep this and all medications out of the reach of children.

TARO



DAPSONE

dapsone gel

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:51672-1387
Route of Administration	TOPICAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Dapsone (UNII: 8W5C518302) (Dapsone - UNII:8W5C518302)	Dapsone	50 mg in 1 g

Inactive Ingredients

Ingredient Name	Strength
Carbomer Homopolymer Type C (Allyl Pentaerythritol Crosslinked) (UNII: 4Q93RCW27E)	
diethylene glycol monoethyl ether (UNII: A1A118 X02B)	
methylparaben (UNII: A2I8C7HI9T)	
water (UNII: 059QF0KO0R)	
sodium hydroxide (UNII: 55X04QC32I)	

Product Characteristics

Color	WHITE (white to pale yellowish)	Score	
Shape		Size	
Flavor		Imprint Code	
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:51672-1387-2	1 in 1 CARTON	10/16/2017	
1		30 g in 1 TUBE; Type 0: Not a Combination Product		
2	NDC:51672-1387-3	1 in 1 CARTON	10/16/2017	
2		60 g in 1 TUBE; Type 0: Not a Combination Product		
3	NDC:51672-1387-8	1 in 1 CARTON	10/16/2017	
3		90 g in 1 TUBE; Type 0: Not a Combination Product		

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
ANDA	ANDA209506	10/16/2017	

Labeler - Taro Pharmaceuticals U.S.A., Inc. (145186370)

Establishment

Name	Address	ID/FEI	Business Operations
Taro Pharmaceuticals Inc.		206263295	MANUFACTURE(51672-1387)

Revised: 7/2018

Taro Pharmaceuticals U.S.A., Inc.