## MIRVASO - brimonidine tartrate gel Galderma Laboratories, L.P.

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#### HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use MIRVASO® safely and effectively. See full prescribing information for MIRVASO. MIRVASO (brimonidine) topical gel

#### Initial U.S. Approval: 1996

------RECENT MAJOR CHANGES ------

- Contraindications (4) 07/2016
- Warnings and Precautions (5.4, 5.5, 5.6) 07/2016

#### ------INDICATIONS AND USAGE

MIRVASO (brimonidine) topical gel, 0.33% is an alpha adrenergic agonist indicated for the topical treatment of persistent (nontransient) facial erythema of rosacea in adults 18 years of age or older.(1)

#### ------ DOSAGE AND ADMINISTRATION ------

- Apply a pea-sized amount once daily to each of the five areas of the face (forehead, chin, nose, each cheek) avoiding the eyes and lips. (2)
- Hands should be washed immediately after applying MIRVASO topical gel. (2)
- For topical use only (2)
- Not for oral, ophthalmic, or intravaginal use. (2)

#### ------ DOSAGE FORMS AND STRENGTHS ------

Gel, 0.33%; Each gram of gel contains 5 mg of brimonidine tartrate, equivalent to 3.3 mg of brimonidine free base. (3)

#### ------ CONTRAINDICATIONS ------

Known hypersensitivity to any component of MIRVASO topical gel (4)

#### ------WARNINGS AND PRECAUTIONS ------

- Potentiation of Vascular Insufficiency (5.1)
- Severe Cardiovascular Disease (5.2)
- Serious Adverse Reactions Following Ingestion of MIRVASO topical gel (5.3)
- Systemic Adverse Reactions of Alpha-2 Adrenergic Agonists (5.4)
- Local Vasomotor Adverse Reactions (5.5)
- Hypersensitivity (5.6)

#### ------ ADVERSE REACTIONS

In controlled clinical trials with MIRVASO topical gel the most common adverse reactions (incidence  $\geq$  1%) included erythema, flushing, skin burning sensation, and contact dermatitis. (6)

To report SUSPECTED ADVERSE REACTIONS, contact Galderma Laboratories, L.P. at 1-866-735-4137 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

See 17 for PATIENT COUNSELING INFORMATION.

**Revised: 12/2022** 

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#### **FULL PRESCRIBING INFORMATION**

#### 1 INDICATIONS AND USAGE

MIRVASO (brimonidine) topical gel, 0.33% is an alpha adrenergic agonist indicated for the topical treatment of persistent (nontransient) erythema of rosacea in adults 18 years of age or older.

#### 2 DOSAGE AND ADMINISTRATION

Apply a pea-sized amount once daily to each of the five areas of the face: central forehead, chin, nose, each cheek. MIRVASO topical gel should be applied smoothly and evenly as a thin layer across the entire face avoiding the eyes and lips.

Wash hands after applying MIRVASO topical gel.

MIRVASO topical gel is for topical use only and not for oral, ophthalmic, or intravaginal use.

#### **3 DOSAGE FORMS AND STRENGTHS**

MIRVASO (brimonidine) topical gel, 0.33% is a white to light yellow opaque aqueous gel. Each gram of gel contains 5 mg of brimonidine tartrate, equivalent to 3.3 mg of brimonidine free base.

#### 4 CONTRAINDICATIONS

MIRVASO topical gel is contratindicated in patients who have experienced a hypersensitivity reaction to any component. Reactions have included angioedema, urticaria, and contact dermatitis [see Warnings and Precautions (5.6) and Adverse Reactions (6.1,6.2)].

#### **5 WARNINGS AND PRECAUTIONS**

## 5.1 Potentiation of Vascular Insufficiency

MIRVASO topical gel should be used with caution in patients with depression, cerebral or coronary insufficiency, Raynaud's phenomenon, orthostatic hypotension, thrombangiitis obliterans, scleroderma, or Sjögren's syndrome.

#### 5.2 Severe Cardiovascular Disease

Alpha-2 adrenergic agonists can lower blood pressure. MIRVASO topical gel should be used with caution in patients with severe or unstable or uncontrolled cardiovascular disease.

## 5.3 Serious Adverse Reactions Following Ingestion of MIRVASO topical gel

Two young children of a subject in a clinical trial experienced serious adverse reactions following accidental ingestion of MIRVASO topical gel. Adverse reactions experienced by one or both children included lethargy, respiratory distress with apneic episodes (requiring intubation), sinus bradycardia, confusion, psychomotor hyperactivity, and diaphoresis. Both children were hospitalized overnight and discharged the following day without sequelae.

Keep MIRVASO topical gel out of the reach of children.

## 5.4 Systemic Adverse Reactions of Alpha-2 Adrenergic Agonists

Postmarketing cases of bradycardia, hypotension (including orthostatic hypotension) and dizziness have been reported. Some cases required hospitalization. Some cases involved application of MIRVASO topical gel in unapproved dosing regimens and for unapproved indications, including the application of MIRVASO topical gel following laser procedures.

Avoid applying MIRVASO topical gel to irritated skin or open wounds.

#### 5.5 Local Vasomotor Adverse Reactions

#### **Erythema**

Some subjects in the clinical trials discontinued use of MIRVASO topical gel because of erythema. Some subjects in the clinical trials reported a rebound phenomenon, where erythema was reported to return worse compared to the severity at baseline.

Erythema appeared to resolve after discontinuation of MIRVASO topical gel.[see Adverse Reactions (6.1)].

The treatment effect of MIRVASO topical gel may begin to diminish hours after application.

From postmarketing reports, some patients have experienced erythema involving areas of the face that were previously not affected by erythema and in areas (e.g., neck and chest) outside of the treatment sites.

#### **Flushing**

Some subjects in the clinical trials discontinued use of MIRVASO topical gel because of flushing.

Intermittent flushing occurred in some subjects treated with MIRVASO topical gel in the clinical trials. The onset of flushing relative to application of MIRVASO topical gel varied, ranging from approximately 30 minutes to several hours [see Adverse Reactions (6.1)]. Flushing appeared to resolve after discontinuation of MIRVASO topical gel.

From postmarketing reports, some patients have experienced increased frequency of flushing and/or increased depth of

erythema with the flushing. Additionally, some patients reported new onset of flushing.

## Pallor and Excessive Whitening

From postmarketing reports, some patients have experienced pallor or excessive whitening at or outside the application site following treatment with MIRVASO topical gel.

## 5.6 Hypersensitivity

Allergic contact dermatitis was reported in the clinical trials for MIRVASO topical gel [see Adverse Reactions (6.1)].

Events reported post marketing with the use of MIRVASO topical gel include angioedema, throat tightening, tongue swelling, and urticaria, [see Adverse Reactions (6.2)]. Institute appropriate therapy and discontinue MIRVASO topical gel, if clinically significant hypersensitivity reaction occurs.

#### **6 ADVERSE REACTIONS**

The following adverse drug reactions are discussed in greater detail in other sections of the label:

- Systemic Adverse Reactions of Alpha-2 Adrenergic Agonists [see Warnings and Precautions (5.4)]
- Local Vasomotor Adverse Reactions [see Warnings and Precautions (5.5)]
- Hypersensitivity [see Warnings and Precautions (5.6)]

#### **6.1 Clinical Trials 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.

During clinical trials, 1210 subjects were exposed to MIRVASO topical gel. A total of 833 subjects were treated for persistent (nontransient) erythema associated with rosacea, and 330 of those were treated once daily for 29 days in vehicle-controlled trials.

Adverse reactions that occurred in at least 1% of subjects treated with MIRVASO topical gel once daily for 29 days and for which the rate for MIRVASO topical gel exceeded the rate for vehicle are presented in Table 1.

Table 1 - Adverse Reactions Reported in Clinical Trials by at Least 1% of Subjects Treated for 29 Days

Preferred Term	MIRVASO Topical Gel (N=330) n (%)	Vehicle Gel (N=331) n (%)
Subjects with at least one adverse reaction, Number (%) of Subjects	109 (33)	91 (28)
Erythema	12 (4%)	3 (1%)
Flushing	9 (3%)	0
Skin burning sensation	5 (2%)	2 (1%)
Dermatitis contact	3 (1%)	1 (<1%)
Dermatitis	3 (1%)	1 (<1%)
Skin warm	3 (1%)	0
Paraesthesia	2 (1%)	1 (<1%)
Acne	2 (1%)	1 (<1%)
Pain of skin	2 (1%)	0
Vision blurred	2 (1%)	0
Nasal congestion	2 (1%)	0

## Open-label, Long-term Study

An open-label study of MIRVASO topical gel when applied once daily for up to one year was conducted in subjects with persistent (nontransient) facial erythema of rosacea. Subjects were allowed to use other rosacea therapies. A total of 276 subjects applied MIRVASO topical gel for at least one year. The most common adverse events ( $\geq$  4% of subjects) for the entire study were flushing (10%), erythema (8%), rosacea (5%), nasopharyngitis (5%), skin burning sensation (4%), increased intraocular pressure (4%), and headache (4%).

## Allergic contact dermatitis

Allergic contact dermatitis to MIRVASO topical gel was reported in approximately 1% of

subjects across the clinical development program. Two subjects underwent patch testing with individual product ingredients. One subject was found to be sensitive to brimonidine tartrate, and one subject was sensitive to phenoxyethanol (a preservative).

#### 6.2 Postmarketing Experience

The following adverse reactions have been identified during post-approval use of MIRVASO topical gel. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to estimate their frequency or establish a causal relationship to drug exposure.

**Cardiovascular disorders:** bradycardia, hypotension (including orthostatic hypotension)

**Immune system disorders:** angioedema, hypersensitivity, lip swelling, swollen tongue, throat tightness, urticaria

Nervous systemic disorders: dizziness

Skin and subcutaneous disorders: pallor

#### 7 DRUG INTERACTIONS

## 7.1 Anti-hypertensives/Cardiac Glycosides

Alpha-2 agonists, as a class, may reduce blood pressure. Caution in using drugs such as beta-blockers, anti-hypertensives and/or cardiac glycosides is advised.

## 7.2 CNS Depressants

Although specific drug-drug interactions studies have not been conducted with MIRVASO topical gel, the possibility of an additive or potentiating effect with CNS depressants (alcohol, barbiturates, opiates, sedatives, or anaesthetics) should be considered.

#### 7.3 Monoamine Oxidase Inhibitors

Monoamine oxidase (MAO) inhibitors may theoretically interfere with the metabolism of brimonidine and potentially result in an increased systemic side-effect such as hypotension. Caution is advised in patients taking MAO inhibitors which can affect the metabolism and uptake of circulating amines.

#### **8 USE IN SPECIFIC POPULATIONS**

## 8.1 Pregnancy

Pregnancy Category B.

There are no adequate and well-controlled studies of MIRVASO topical gel in pregnant women. In animal studies, brimonidine crossed the placenta and entered into the fetal circulation to a limited extent. MIRVASO topical gel should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.

Brimonidine tartrate was not teratogenic when given at oral doses up to 2.5 mg/kg/day in pregnant rats during gestation days 6 through 15 and 5 mg/kg/day in pregnant rabbits during gestation days 6 through 18.

## 8.3 Nursing Mothers

It is not known whether brimonidine tartrate is excreted in human milk, although in animal studies, brimonidine tartrate has been shown to be excreted in breast milk. Because of the potential for serious adverse reactions from MIRVASO topical gel 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.

#### 8.4 Pediatric Use

Keep MIRVASO topical gel out of reach of children. Serious adverse reactions were experienced by two children of a subject in a clinical trial who accidentally ingested MIRVASO topical gel [See Warnings and Precautions (5.3)].

Safety and effectiveness in pediatric patients have not been established.

#### 8.5 Geriatric Use

One hundred and five subjects aged 65 and older were included in clinical trials with MIRVASO topical gel. No overall differences in safety or effectiveness were observed between subjects  $\geq$  65 years of age and younger adult subjects. Clinical studies of MIRVASO topical gel did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects.

#### **10 OVERDOSAGE**

No information is available on overdose in adults with MIRVASO topical gel.

Oral overdoses of other alpha-2 adrenergic agonists have been reported to cause symptoms such as hypotension, asthenia, vomiting, lethargy, sedation, bradycardia, arrhythmias, miosis, apnoea, hypotonia, hypothermia, respiratory depression, and seizure.

Treatment of an oral overdose includes supportive and symptomatic therapy; a patent airway should be maintained.

#### 11 DESCRIPTION

MIRVASO (brimonidine) topical gel, 0.33% contains brimonidine tartrate, an alpha adrenergic agonist.

The molecular formula of brimonidine tartrate is  $C_{11}H_{10}BrN_5 \cdot C_4H_6O_6$ . It has the following structural formula:

Chemically, brimonidine tartrate is 5-Bromo-6-(2-imidazolidinylideneamino) quinoxaline L-tartrate. Brimonidine tartrate has a molecular weight of 442.24 and appears as white to slightly yellowish powder.

Each gram of MIRVASO (brimonidine) topical gel, 0.33% contains 5 mg of the active ingredient brimonidine tartrate (equivalent to 3.3 mg of brimonidine free base), in a white to light yellow opaque gel composed of the inactive ingredients carbomer homopolymer type B, glycerin, methylparaben, phenoxyethanol, propylene glycol, purified water, sodium hydroxide, and titanium dioxide.

#### 12 CLINICAL PHARMACOLOGY

#### 12.1 Mechanism of Action

Brimonidine is a relatively selective alpha-2 adrenergic agonist. Topical application of MIRVASO topical gel may reduce erythema through direct vasoconstriction.

#### 12.3 Pharmacokinetics

## **Absorption**

The absorption of brimonidine from MIRVASO topical gel was evaluated in a clinical trial in 24 adult subjects with facial erythema associated with rosacea. All enrolled subjects received once daily topical application of MIRVASO topical gel 1 gram to the entire face for 29 days. Pharmacokinetic assessments were performed on Day 1, Day 15, and Day 29. The mean plasma maximum concentration ( $C_{max}$ ) and area under the concentration-time curve (AUC) were highest on Day 15, with  $C_{max}$  and AUC values ( $\pm$  standard deviation) of 46  $\pm$  62 pg/mL and 417  $\pm$  264 pg.hr/mL, respectively. The systemic drug exposure was slightly lower on Day 29 indicating no further drug accumulation.

#### Metabolism

Brimonidine is extensively metabolized by the liver.

#### **Excretion**

Urinary excretion is the major route of elimination of brimonidine and its metabolites.

#### 13 NONCLINICAL TOXICOLOGY

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

## Carcinogenesis

In a 21-month oral (diet) mouse carcinogenicity study and a 24-month oral (diet) rat

carcinogenicity study, no drug-related neoplasms were observed in mice at oral doses of brimonidine tartrate up to 2.5 mg/kg/day or in rats at oral doses of brimonidine tartrate up to 1 mg/kg/day.

In a dermal rat carcinogenicity study with MIRVASO topical gel, brimonidine tartrate was administered to Wistar rats at topical doses of 0.9 (0.03% gel), 1.8 (0.06% gel), and 5.4 mg/kg/day (0.18% gel) in males and 5.4 (0.18% gel), 30 (1% gel) during Days 1-343/10.8 (0.36% gel) thereafter, and 60 (2% gel) during Days 1-343/21.6 mg/kg/day (0.72% gel) thereafter in females once daily for 24 months. No drug-related neoplasms were observed in this study.

In a 12-month dermal photo-carcinogenicity study, topical doses of 0% (MIRVASO topical gel vehicle), 0.18%, 1% and 2% brimonidine tartrate gel were administered to hairless albino mice once daily, five days per week, with concurrent exposure to simulated sunlight. No drug-related adverse effects were observed in this study. The results of this study suggest that topical treatment with MIRVASO topical gel would not enhance photo-carcinogenesis.

#### Mutagenesis

Brimonidine tartrate was not mutagenic or clastogenic in a series of *in vitro* and *in vivo* studies, including the Ames test, a chromosomal aberration assay in Chinese Hamster Ovary (CHO) cells, and three studies in CD1 mice (a host-mediated assay, a cytogenetic study, and a dominant lethal assay).

#### Impairment of Fertility

Reproduction and fertility studies in rats with brimonidine tartrate demonstrated no adverse effects on male or female fertility at oral doses up to 1 mg/kg/day.

#### **14 CLINICAL STUDIES**

MIRVASO topical gel was evaluated for the treatment of moderate to severe, persistent (nontransient) facial erythema of rosacea in two randomized, double-blind, vehicle-controlled clinical trials, which were identical in design. The trials were conducted in 553 subjects aged 18 years and older who were treated once daily for 4 weeks with either MIRVASO topical gel or vehicle. Overall, 99% of subjects were Caucasian and 76% were female. Baseline disease severity was graded using a 5-point Clinical Erythema Assessment (CEA) scale and a 5-point Patient Self Assessment (PSA) scale, on which subjects scored either "moderate" or "severe" on both scales.

The primary efficacy endpoint in both pivotal trials was 2-grade Composite Success, defined as the proportion of subjects with a 2-grade improvement on both CEA and PSA measured at hours 3, 6, 9, and 12 on Day 29. Table 2 presents the efficacy results. In addition to Day 29, efficacy was evaluated on Day 15 and Day 1, and the results are presented in Figures 1 and 2 for Studies 1 and 2, respectively.

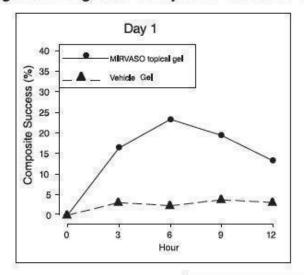
Table 2: Summary of 2-grade Composite Success on Day 29

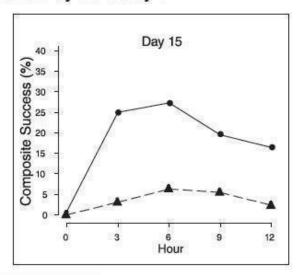
Success	Study 1		Study 2		
	MIRVASO Topical Gel (N=129)	Vehicle Gel (N=131)		Topical Gel =148)	Vehicle Gel (N=145)

Hour 3	31%	11%	25%	9%
Hour 6	30%	10%	25%	9%
Hour 9	26%	10%	18%	11%
Hour 12	23%	9%	22%	10%

2-grade Composite Success: 2-grade improvement on CEA and 2-grade improvement on PSA.

Figure 1: 2-grade Composite Success by Hour and Day for Study 1





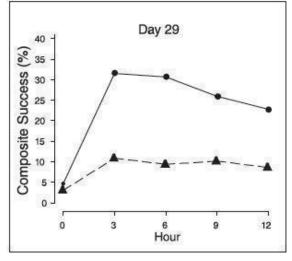
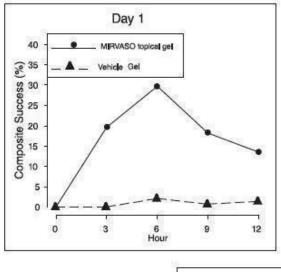
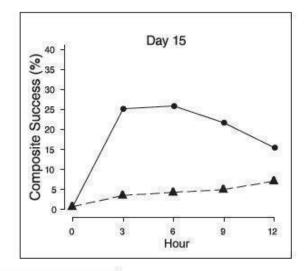
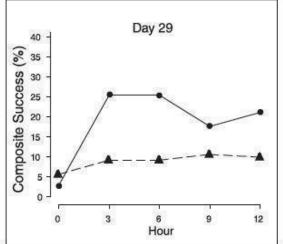


Figure 2: 2-grade Composite Success by Hour and Day for Study 2







#### 16 HOW SUPPLIED/STORAGE AND HANDLING

MIRVASO (brimonidine) topical gel, 0.33% is a white to light yellow opaque gel, supplied in a laminated tube or pump with a child resistant cap in the following sizes:

30 gram tube **NDC** 0299-5980-30

30 gram pump **NDC** 0299-5980-35

45 gram tube **NDC** 0299-5980-45

Store at 20°C to 25°C (68°F to 77°F), excursions permitted between 15°C and 30°C (59°F and 86°F) [See USP Controlled Room Temperature].

#### 17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Patient Information and Instructions for Use)

Patients using MIRVASO topical gel should receive the following information and instructions:

- This medication is to be used as directed by the physician.
- It is for external use only.

- MIRVASO topical gel should not be applied to irritated skin or open wounds.
- Avoid contact with the eyes and lips.
- Patients should wash their hands immediately after applying the medication.
- Some patients using MIRVASO topical gel may experience erythema, flushing or excessive whitening.
- Patients should report any adverse reactions to their physician.
- Keep out of reach of children.

#### Marketed by:

GALDERMA LABORATORIES, L.P., Fort Worth, Texas 76177 USA

Made in Canada.

All trademarks are the property of their respective owners.

P52849-2 or P51217-3

#### PATIENT INFORMATION

MIRVASO (Mer-VAY-soe) (brimonidine) topical gel

**Important information:** MIRVASO<sup>®</sup> topical gel is for use on the face only. Do not use MIRVASO topical gel in your eyes, mouth, or vagina.

Keep MIRVASO topical gel out of the reach of children.

If anyone, especially a child, accidentally swallows MIRVASO topical gel, they may have serious side effects and need to be treated in a hospital. Get medical help right away if you, a child, or anyone else swallows MIRVASO topical gel and has any of these symptoms:

 lack of energy, trouble breathing or stops breathing, a slow heart beat, confusion, sweating, restlessness, muscle spasms, or twitching.

## What is MIRVASO topical gel?

MIRVASO topical gel is a prescription medicine that is used on your skin (topical) to treat facial redness due to rosacea that does not go away (persistent) in adults who are 18 years of age or older.

It is not known if MIRVASO topical gel is safe and effective in children.

## Who should not use MIRVASO topical gel?

**Do not use MIRVASO topical gel if you** have had a serious allergic reaction to any of the ingredients in MIRVASO topical gel. See the end of this Patient Information leaflet for a list of ingredients in MIRVASO topical gel. **See "What are the possible side effects of MIRVASO topical gel?"** 

What should I tell my doctor before using MIRVASO topical gel? Before using MIRVASO topical gel, tell your doctor about all of your medical conditions including if you:

- have depression
- have heart or blood vessel problems
- have dizziness or blood pressure problems

- have problems with blood circulation or have had a stroke
- have dry mouth or Sjögren's Syndrome
- have skin tightening or scleroderma
- have Raynaud's phenomenon
- have irritated skin or open sores
- plan to have any laser procedures
- are pregnant or plan to become pregnant. It is not known if MIRVASO topical gel will harm your unborn baby.
- are breastfeeding. It is not known if MIRVASO topical gel passes into your breast milk. You and your doctor should decide if you will use MIRVASO topical gel or breastfeed. You should not do both.

**Tell your doctor about all the medicines you take**, including prescription and over-the-counter medicines, skin products, vitamins, and herbal supplements. Using MIRVASO topical gel with certain other medicines may affect each other and can cause serious side effects.

## How should I use MIRVASO topical gel?

See the detailed Instructions for Use that comes with your MIRVASO topical gel tube or pump for information about how to apply MIRVASO topical gel correctly.

- Use MIRVASO topical gel exactly as your doctor tells you. Do not use more MIRVASO topical gel than prescribed. Call your doctor if you are not sure.
- You should not apply MIRVASO topical gel to irritated skin or open wounds.
- MIRVASO topical gel is for use on your skin only. Do not use MIRVASO topical gel in your eyes, mouth, or vagina. Avoid contact with your lips and eyes.

# What are the possible side effects of MIRVASO topical gel? MIRVASO topical gel may cause serious side effects, including:

- See "Important information" at the beginning of this Patient Information leaflet.
- **Problems with blood circulation.** People who use MIRVASO topical gel can have problems with blood circulation, including a slow heart rate, low blood pressure, and dizziness. These problems may sometimes be serious and lead to hospitalization. See "What should I tell my doctor before using MIRVASO topical gel?"
- Serious allergic (hypersensitivity) reactions have happened in people who use MIRVASO topical gel. Stop using MIRVASO topical gel and go to the nearest hospital emergency room right away if you have any of the following signs and symptoms of a serious allergic reaction including:
- o swelling of your face, lips, tongue, or throat
- o hives
- o trouble breathing

## The most common side effects of MIRVASO topical gel include:

• redness • flushing • burning sensation of the skin • skin reactions (contact dermatitis).

Skin redness is common after applying MIRVASO topical gel, and may be worse than before you applied it. You may also develop redness on areas of your face that were not

affected by rosacea, as well as on your neck and chest.

Skin flushing is common and may happen off and on after applying MIRVASO topical gel. In some cases, the flushing may be new, may happen more often, or you may have increased redness with flushing.

Pale colored skin or very white skin (excessive whitening) can happen at or outside the treated area.

Tell your doctor if you get skin redness, flushing, and pale colored skin that is uncomfortable for you.

These are not all the possible side effects of MIRVASO topical gel.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

General information about the safe and effective use of MIRVASO topical gel Medicines are sometimes prescribed for purposes other than those listed in a Patient Information leaflet. You can ask your pharmacist or doctor for information about MIRVASO topical gel that is written for health professionals. Do not use MIRVASO topical gel for a condition for which it was not prescribed. Do not give MIRVASO topical gel to other people, even if they have the same symptoms that you have. It may harm them.

#### What are the ingredients in MIRVASO topical gel?

Active ingredient: brimonidine

Inactive ingredients: carbomer homopolymer type B, glycerin, methylparaben, phenoxyethanol, propylene glycol, purified water, sodium hydroxide, titanium dioxide.

Marketed by: GALDERMA LABORATORIES, L.P., Fort Worth, TX 76177 USA

Made in Canada.

This Patient Information has been approved by the U.S. Food and Drug Administration. Revised: Nov 2017

Instructions for Use MIRVASO (Mer-VAY-soe)

(brimonidine)topical geltube

**Important:** MIRVASO<sup>®</sup> topical gel is for use on the face only. Do not use MIRVASO topical gel in your eyes, mouth, or vagina.

Keep MIRVASO topical gel out of the reach of children.

If anyone, especially a child, accidentally swallows MIRVASO topical gel, they may have serious side effects and need to be treated in a hospital. Get medical help right away if you, a child, or anyone else swallows MIRVASO topical gel and has any of these symptoms:

 lack of energy, trouble breathing or stops breathing, a slow heart beat, confusion, sweating, restlessness, muscle spasms, or twitching.

Read and follow the steps below so that you use your tube of MIRVASO topical gel correctly:

1. Open the tube of MIRVASO topical gel by gently pressing down on the child resistant cap and twist in the direction of the arrow as shown below (counterclockwise). See Figures A and B. To avoid spilling, do not squeeze the tube while opening or closing.

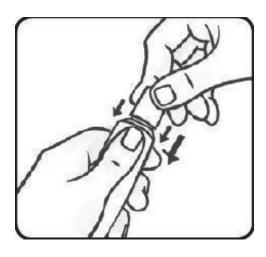
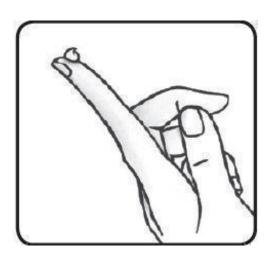


Figure A



Figure B

2. To apply MIRVASO topical gel to your face, squeeze a pea-sized amount of MIRVASO topical gel from the tube onto your fingertip. See Figure C.



#### Figure C

3. Apply a pea-sized amount of MIRVASO topical gel onto each of the five areas of your face (forehead, chin,

nose, each cheek) 1 time each day. You will use a total of 5 pea-sized amounts of MIRVASO

topical gel. Spread the gel smoothly and evenly in a thin layer over your face. Avoid contact with your eyes and lips. Do not apply MIRVASO topical gel to irritated skin or open wounds.

4. To close your MIRVASO topical gel tube, place the cap back on the tube. Gently press down on the child resistant cap and twist to the right (clockwise). See Figure D.



## Figure D

5. Wash your hands right away after applying MIRVASO topical gel.

## How should I store MIRVASO topical gel?

• Store MIRVASO topical gel at room temperature between 68°F to 77°F (20°C to 25°C).

## Keep MIRVASO topical gel and all medicines out of the reach of children.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Marketed by: GALDERMA LABORATORIES, L.P.

Fort Worth, TX 76177 USA

Made in Canada.

Revised: October 2015

Instructions for Use MIRVASO (Mer-VAY-soe) (brimonidine)topical gelPump

**Important:** MIRVASO<sup>®</sup> topical gel is for use on the face only. Do not use MIRVASO topical gel in your eyes, mouth, or vagina.

## Keep MIRVASO topical gel out of the reach of children.

If anyone, especially a child, accidentally swallows MIRVASO topical gel, they may have serious side effects and need to be treated in a hospital. Get

medical help right away if you, a child, or anyone else swallows MIRVASO topical gel and has any of these symptoms:

• lack of energy, trouble breathing or stops breathing, a slow heart beat, confusion, sweating, restlessness, muscle spasms, or twitching.

Read and follow the steps below so that you use your MIRVASO topical gel correctly:

1. Push the cap down and turn it counter-clockwise until the cap can be removed. See Figures A and B. The clear sticker will break when opening for the first time.

Note: when the cap is removed, the pump is not child-resistant.

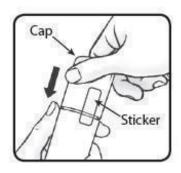


Figure A



Figure B



## Figure C

Before the first use, prime the pump by pressing down several times until the medicine is dispensed onto your fingertip.

- 2. To apply MIRVASO topical gel to your face, dispense a pea-sized amount of MIRVASO topical gel from the pump onto your fingertip. See Figure C.
- 3. Apply a pea-sized amount of MIRVASO topical gel onto each of the five areas of your face (forehead, chin, nose, each cheek) 1 time each day. You will use a total of 5 pea-sized amounts of MIRVASO topical gel. Spread the gel smoothly and evenly in a thin layer over your face. Avoid contact with your eyes and lips. Do not apply MIRVASO topical gel to irritated skin or open wounds.
- 4. To close your MIRVASO topical gel pump, place the cap back on the pump. Push down and turn the cap to the right (clockwise) until it stops. This pump is child-resistant again. See Figure D.



#### Figure D

5. Wash your hands right away after applying MIRVASO topical gel.

## How should I store MIRVASO topical gel?

• Store MIRVASO topical gel at room temperature between 68°F to 77°F (20°C to 25°C).

## Keep MIRVASO topical gel and all medicines out of the reach of children.

This Instructions for Use has been approved by the U.S. Food and Drug Administration.

Marketed by: GALDERMA LABORATORIES, L.P., Fort Worth, TX 76177 USA,

Made in Canada

Issued: November 2017

## PRINCIPAL DISPLAY PANEL 30g Pump Carton



Rx Only NDC 0299-5980-35

Mirvaso® (brimonidine) topical gel, 0.33%\* PUMP

\*Each gram of Mirvaso topical gel contains 5 mg of brimonidine tartrate, equivalent to 3.3 mg of brimonidine free base

## For Topical Use Only Keep Out of Reach of Children

GALDERMA NET WT. 30 g

Not for oral, ophthalmic or intravaginal use.

**To Open Pump:** Push the cap down while turning it counter-clockwise to remove the cap.

**Usual Dosage:** Apply a pea-size amount once daily to each of the five areas of the face (forehead, chin, nose, and each cheek) avoiding the eyes and lips. See package insert for complete prescribing information.

**Each gram** contains the **active** ingredient brimonidine tartrate 5mg with the **inactive** ingredients carbomer homopolymer type B, glycerin, methylparaben, phenoxyethanol, propylene glycol, purified water, sodium hydroxide, and titanium dioxide.

**Storage:** Store at 20° to 25°C (68° to 77°F), excursions permitted between 15° and 30°C (59° and 86°F). [See USP Controlled Room Temperature].

See bottom of carton for lot number and expiration date.

All trademarks are the property of their respective owners.

Marketed by: GALDERMA LABORATORIES, L.P. Dallas, TX 75201 USA Made in Canada P52848-3

#### **MIRVASO**

brimonidine tartrate gel

Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:0299-5980	
Route of Administration	TOPICAL			

Active Ingredient/Active Moiety			
Ingredient Name	<b>Basis of Strength</b>	Strength	
BRIMONIDINE TARTRATE (UNII: 4S9CL2DY2H) (BRIMONIDINE - UNII: E6GNX3HHTE)	BRIMONIDINE TARTRATE	5 mg in 1 g	

Inactive Ingredients	
Ingredient Name	Strength
Carbomer Homopolymer Type B (allyl Pentaerythritol Crosslinked) (UNII: HHT01ZNK31)	
GLYCERIN (UNII: PDC6A3C0OX)	

METHYLPARABEN (UNII: A2I8C7HI9T)	
PHENOXYETHANOL (UNII: HIE492ZZ3T)	
PROPYLENE GLYCOL (UNII: 6DC9Q167V3)	
WATER (UNII: 059QF0KO0R)	
SODIUM HYDROXIDE (UNII: 55X04QC32I)	
TITANIUM DIOXIDE (UNII: 15FIX9V2JP)	

P	Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date	
1	NDC:0299- 5980-30	30 g in 1 TUBE; Type 0: Not a Combination Product	08/23/2013		
2	NDC:0299- 5980-35	1 in 1 CARTON	08/23/2013		
2		30 g in 1 BOTTLE, PUMP; Type 0: Not a Combination Product			
3	NDC:0299- 5980-45	45 g in 1 TUBE; Type 0: Not a Combination Product	08/23/2013		
4	NDC:0299- 5980-02	2 g in 1 TUBE; Type 0: Not a Combination Product	08/23/2013		
5	NDC:0299- 5980-00	1 in 1 BLISTER PACK	08/23/2013		
5		2 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	
NDA	NDA204708	08/23/2013		

## **Labeler -** Galderma Laboratories, L.P. (047350186)

Establishment			
Name	Address	ID/FEI	Business Operations
G Production Inc.		251676961	manufacture(0299-5980)

Revised: 12/2022 Galderma Laboratories, L.P.