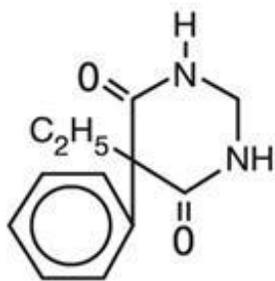


PRIMIDONE- primidone tablet
Oceanside Pharmaceuticals

Primidone, USP Tablets
50 mg and 250 mg
Rx only
Anticonvulsant

DESCRIPTION

Chemical name: 5-ethyl-5-phenyl-4,6 (1H, 5H)-pyrimidinedione.
Structural formula:



$C_{12}H_{14}N_2O_2$

M.W. 218.25

Primidone is a white, crystalline, highly stable substance, M.P. 279-284°C. It is poorly soluble in water (60 mg per 100 mL at 37°C) and in most organic solvents. It possesses no acidic properties, in contrast to its barbiturate analog.

Primidone 50 mg and 250 mg tablets contain the following inactive ingredients: lactose monohydrate, NF; magnesium stearate, NF; methylcellulose, USP; microcrystalline cellulose, NF; purified water, USP; sodium lauryl sulfate, NF; sodium starch glycolate, NF; and talc, USP.

Primidone 250 mg tablets also contain ferric oxide yellow, NF.

ACTIONS

Primidone raises electro- or chemoshock seizure thresholds or alters seizure patterns in experimental animals. The mechanism(s) of primidone's antiepileptic action is not known.

Primidone per se has anticonvulsant activity as do its two metabolites, phenobarbital and phenylethylmalonamide (PEMA). In addition to its anticonvulsant activity, PEMA potentiates the anticonvulsant activity of phenobarbital in experimental animals.

INDICATIONS AND USAGE

Primidone, used alone or concomitantly with other anticonvulsants, is indicated in the control of grand mal, psychomotor, and focal epileptic seizures. It may control grand mal seizures refractory to other anticonvulsant therapy.

CONTRAINDICATIONS

Primidone is contraindicated in: 1) patients with porphyria and 2) patients who are hypersensitive to phenobarbital (see **ACTIONS**).

WARNINGS

The abrupt withdrawal of antiepileptic medication may precipitate status epilepticus. The therapeutic efficacy of a dosage regimen takes several weeks before it can be assessed.

Suicidal Behavior and Ideation

Antiepileptic drugs (AEDs), including Primidone, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with any AED for any indication should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior.

Pooled analyses of 199 placebo-controlled clinical trials (mono- and adjunctive therapy) of 11 different AEDs showed that patients randomized to one of the AEDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% CI:1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to placebo. In these trials, which had a median treatment duration of 12 weeks, the estimated incidence rate of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were four suicides in drug-treated patients in the trials and none in placebo-treated patients, but the number is too small to allow any conclusion about drug effect on suicide.

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as 1 week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed.

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5-100 years) in the clinical trials analyzed.

Table 1 shows absolute and relative risk by indication for all evaluated AEDs.

Table 1: Risk by indication for antiepileptic drugs in the pooled analysis

Indication	Placebo Patients with Events Per 1000 Patients	Drug Patients with Events Per 1000 Patients	Relative Risk: Incidence of Events in Drug Patients/ Incidence in Placebo Patients	Risk Difference: Additional Drug Patients with Events Per 1000 Patients
Epilepsy	1.0	3.4	3.5	2.4
Psychiatric	5.7	8.5	1.5	2.9
Other	1.0	1.8	1.9	0.9
Total	2.4	4.3	1.8	1.9

The relative risk for suicidal thoughts or behavior was higher in clinical trials for epilepsy than in clinical trials for psychiatric or other conditions, but the absolute risk differences were similar for the epilepsy and psychiatric indications.

Anyone considering prescribing Primidone or any other AED must balance the risk of suicidal thoughts or behavior with the risk of untreated illness. Epilepsy and many other illnesses for which AEDs are prescribed are themselves associated with morbidity and mortality and an increased risk of suicidal thoughts and behavior. Should suicidal thoughts and behavior emerge during treatment, the prescriber

needs to consider whether the emergence of these symptoms in any given patient may be related to the illness being treated.

Patients, their caregivers, and families should be informed that AEDs increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of the signs and symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers.

Pregnancy

To provide information regarding the effects of in utero exposure to Primidone, physicians are advised to recommend that pregnant patients taking Primidone enroll in the North American Antiepileptic Drug (NAAED) Pregnancy Registry. This can be done by calling the toll-free number 1-888-233-2334, and must be done by patients themselves. Information on the registry can also be found at the website <http://www.aedpregnancyregistry.org/>.

The effects of Primidone in human pregnancy and nursing infants are unknown.

Recent reports suggest an association between the use of anticonvulsant drugs by women with epilepsy and an elevated incidence of birth defects in children born to these women. Data are more extensive with respect to diphenylhydantoin and phenobarbital, but these are also the most commonly prescribed anticonvulsants; less systematic or anecdotal reports suggest a possible similar association with the use of all known anticonvulsant drugs.

The reports suggesting an elevated incidence of birth defects in children of drug-treated epileptic women cannot be regarded as adequate to prove a definite cause-and-effect relationship.

There are intrinsic methodologic problems in obtaining adequate data on drug teratogenicity in humans; the possibility also exists that other factors leading to birth defects, e.g., genetic factors or the epileptic condition itself, may be more important than drug therapy. The great majority of mothers on anticonvulsant medication deliver normal infants. It is important to note that anticonvulsant drugs should not be discontinued in patients in whom the drug is administered to prevent major seizures because of the strong possibility of precipitating status epilepticus with attendant hypoxia and threat to life. In individual cases where the severity and frequency of the seizure disorders are such that the removal of medication does not pose a serious threat to the patient, discontinuation of the drug may be considered prior to and during pregnancy, although it cannot be said with any confidence that even minor seizures do not pose some hazard to the developing embryo or fetus.

The prescribing physician will wish to weigh these considerations in treating or counseling epileptic women of childbearing potential. Neonatal hemorrhage, with a coagulation defect resembling vitamin K deficiency, has been described in newborns whose mothers were taking primidone and other anticonvulsants. Pregnant women under anticonvulsant therapy should receive prophylactic vitamin K1 therapy for 1 month prior to, and during, delivery.

PRECAUTIONS

The total daily dosage should not exceed 2 g. Since Primidone therapy generally extends over prolonged periods, a complete blood count and a sequential multiple analysis-12 (SMA-12) test should be made every 6 months.

Nursing Mothers

There is evidence in mothers treated with primidone that the drug appears in breast milk in substantial quantities. Since tests for the presence of primidone in biological fluids are too complex to be carried out in the average clinical laboratory, it is suggested that the presence of undue somnolence and drowsiness in nursing newborns of Primidone-treated mothers be taken as an indication that nursing should be discontinued.

Information for Patients

Suicidal Thoughts and Behavior

Patients, their caregivers, and families should be counseled that AEDs, including Primidone, may increase the risk of suicidal thoughts and behavior and should be advised of the need to be alert for the emergence or worsening of symptoms of depression, any unusual changes in mood or behavior, or the emergence of suicidal thoughts, behavior, or thoughts about self-harm. Behaviors of concern should be reported immediately to healthcare providers.

Patients should be encouraged to enroll in the NAAED Pregnancy Registry if they become pregnant. This registry is collecting information about the safety of antiepileptic drugs during pregnancy. To enroll, patients can call the toll-free number 1-888-233-2334 (see **WARNINGS, Pregnancy**).

Please refer to the Primidone Medication Guide provided with the product for more information.

ADVERSE REACTIONS

The most frequently occurring early side effects are ataxia and vertigo. These tend to disappear with continued therapy, or with reduction of initial dosage. Occasionally, the following have been reported: nausea, anorexia, vomiting, fatigue, hyperirritability, emotional disturbances, sexual impotency, diplopia, nystagmus, drowsiness, and morbilliform skin eruptions. Granulocytopenia, agranulocytosis, and red-cell hypoplasia and aplasia, have been reported rarely. These and, occasionally, other persistent or severe side effects may necessitate withdrawal of the drug. Megaloblastic anemia may occur as a rare idiosyncrasy to Primidone and to other anticonvulsants. The anemia responds to folic acid without necessity of discontinuing medication.

To report SUSPECTED ADVERSE REACTIONS, contact Oceanside Pharmaceuticals, a division of Valeant Pharmaceuticals North America LLC, at 1-800-321-4576 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DOSAGE AND ADMINISTRATION

Usual Dosage

Patients 8 years of age and older who have received no previous treatment may be started on Primidone according to the following regimen using either 50 mg or scored 250 mg Primidone tablets:

Days 1 to 3: 100 to 125 mg at bedtime.

Days 4 to 6: 100 to 125 mg twice a day.

Days 7 to 9: 100 to 125 mg three times a day.

Day 10 to maintenance: 250 mg three times a day.

For most adults and children 8 years of age and over, the usual maintenance dosage is three to four 250 mg Primidone tablets in divided doses (250 mg three times a day or four times a day). If required, an increase to five or six 250 mg tablets daily may be made, but daily doses should not exceed 500 mg four times a day.

Dosage should be individualized to provide maximum benefit. In some cases, serum blood level determinations of primidone may be necessary for optimal dosage adjustment. The clinically effective serum level for primidone is between 5 to 12 mcg/mL.

INITIAL: ADULTS AND CHILDREN OVER 8

KEY: •=50 mg tablet; ●=250 mg tablet

DAY	1	2	3	4	5	6
AM				••	••	••

NOON						
PM	••	••	••	••	••	••
DAY	7	8	9	10	11	12
AM	••	••	••	•		
NOON	••	••	••	•	Adjust to	
PM	••	••	••	•	Maintenance	

Patients Already Receiving Other Anticonvulsants

Primidone should be started at 100 to 125 mg at bedtime and gradually increased to maintenance level as the other drug is gradually decreased. This regimen should be continued until satisfactory dosage level is achieved for the combination, or the other medication is completely withdrawn. When therapy with Primidone alone is the objective, the transition from concomitant therapy should not be completed in less than 2 weeks.

Pediatric Dosage

For children under 8 years of age, the following regimen may be used:

Days 1 to 3: 50 mg at bedtime.

Days 4 to 6: 50 mg twice a day.

Days 7 to 9: 100 mg twice a day.

Day 10 to maintenance: 125 mg three times a day to 250 mg three times a day.

For children under 8 years of age, the usual maintenance dosage is 125 to 250 mg three times daily or, 10 to 25 mg/kg/day in divided doses.

HOW SUPPLIED

Primidone, USP Tablets

Each square-shaped, scored, yellow tablet, identified by "MYSOLINE 250" and an embossed M, contains 250 mg of primidone, in bottles of 100 (NDC 68682-690-10)

Each square-shaped, scored, white tablet, identified by "MYSOLINE 50" and an embossed M, contains 50 mg of primidone, in bottles of 100 (NDC 68682-691-10)

Storage

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

Dispense in a tight, light-resistant container with a child-resistant closure.

Manufactured for:

Oceanside Pharmaceuticals, a division of
Valeant Pharmaceuticals North America LLC
Bridgewater, NJ 08807 USA

Manufactured by:

Piramal Enterprises Limited
Plot No. 67-70, Sector II, Dist. Dhar
Pithampur, Madhya Pradesh 454775 India

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MEDICATION GUIDE

Primidone (prim-i-done), USP Tablets

50 mg and 250 mg

Read this Medication Guide before you start taking Primidone and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment.

What is the most important information I should know about Primidone?

Like other antiepileptic drugs, Primidone may cause suicidal thoughts or actions in a very small number of people, about 1 in 500.

Call a healthcare provider right away if you have any of these symptoms, especially if they are new, worse, or worry you:

- thoughts about suicide or dying
- attempts to commit suicide
- new or worsening depression
- new or worsening anxiety
- feeling agitated or restless
- panic attacks
- trouble sleeping (insomnia)
- new or worsening irritability
- acting aggressive, being angry, or violent
- acting on dangerous impulses
- an extreme increase in activity and talking (mania)
- other unusual changes in behavior or mood

Do not stop taking Primidone without first talking to a healthcare provider.

- Stopping Primidone suddenly can cause serious problems. Stopping a seizure medicine suddenly in a patient who has epilepsy can cause seizures that will not stop (status epilepticus).

Suicidal thoughts or actions can be caused by things other than medicines. If you have suicidal thoughts or actions, your healthcare provider may check for other causes.

How can I watch for early symptoms of suicidal thoughts and actions?

- Pay attention to any changes, especially sudden changes, in mood, behaviors, thoughts, or feelings.
- Keep all follow-up visits with your healthcare provider as scheduled.
- Call your healthcare provider between visits as needed, especially if you are worried about symptoms.

What is Primidone?

Primidone is a prescription medicine used alone or with other medicines to treat people with:

- generalized tonic-clonic (grand mal) seizures
- complex partial (psychomotor) seizures
- partial (focal) epileptic seizures

Who should not take Primidone?

Do not take Primidone if you:

- have a genetic disorder called porphyria
- are allergic to phenobarbital

What should I tell my healthcare provider before taking Primidone?

Before you take Primidone, tell your healthcare provider if you:

- have or have had depression, mood problems, or suicidal thoughts or behavior
- have any other medical conditions
- are pregnant or planning to become pregnant. Primidone may harm your unborn baby. Tell your healthcare provider right away if you become pregnant while taking Primidone. You and your healthcare provider will decide if you should take Primidone while you are pregnant.
- If you become pregnant while taking Primidone, talk to your healthcare provider about registering with the North American Antiepileptic Drug (NAAED) Pregnancy Registry. You can enroll in this registry by calling 1-888-233-2334. The purpose of this registry is to collect information about the safety of antiepileptic drugs during pregnancy.
- are breastfeeding or plan to breastfeed. Primidone can pass into breast milk. Talk to your healthcare provider about the best way to feed your baby if you take Primidone.

Tell your healthcare provider about all the medicines you take, including prescription and non-prescription medicines, vitamins, and herbal supplements. Taking Primidone with certain other medicines can cause side effects or affect how well they work. Do not start or stop other medicines without talking to your healthcare provider.

Know the medicines you take. Keep a list of them and show it to your healthcare provider and pharmacist each time you get a new medicine.

How should I take Primidone?

Take Primidone exactly as prescribed. Your healthcare provider will tell you how much Primidone to take and when to take it. Take Primidone at the same times each day.

- Your healthcare provider may change your dose. Do not change your dose without talking to your healthcare provider.
- Do not stop taking Primidone without first talking to your healthcare provider. Stopping Primidone suddenly can cause serious problems.
- If you take too much Primidone, call your healthcare provider or local Poison Control Center right away.

What should I avoid while taking Primidone?

- Primidone can make you sleepy or dizzy. Do not drink alcohol or take other drugs that make you sleepy or dizzy while taking Primidone without first discussing this with your healthcare provider. Taking Primidone with alcohol or drugs that cause sleepiness or dizziness may make your sleepiness or dizziness worse.
- Do not drive, operate heavy machinery, or do other dangerous activities until you know how Primidone affects you. Primidone can slow your thinking and motor skills.

What are the possible side effects of Primidone?

See "**What is the most important information I should know about Primidone?**"

Primidone may cause other serious side effects including:

- Sleepiness that can be severe, especially when you first start taking Primidone.

- Primidone may rarely cause blood problems. Symptoms may include:
 - fever, swollen glands, or sore throat that come and go or do not go away
 - frequent infections or an infection that does not go away
 - tiredness
 - shortness of breath
- Primidone may rarely cause allergic reactions. Symptoms may include:
 - skin rash
 - hives
 - sores in your mouth
 - blistering or peeling skin

The most common side effects of Primidone include:

- problems with walking and moving
- feelings of dizziness, spinning, or swaying (vertigo)

These are not all the possible side effects of Primidone. For more information, ask your healthcare provider or pharmacist.

Tell your healthcare provider if you have any side effect that bothers you or that does not go away.

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 Primidone?

Store Primidone at room temperature between 68° to 77°F (20° to 25°C) in a tight, light-resistant container.

Keep Primidone and all medicines out of reach of children.

General Information about Primidone

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Primidone for a condition for which it was not prescribed. Do not give Primidone to other people, even if they have the same symptoms that you have. It may harm them.

This Medication Guide summarizes the most important information about Primidone. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Primidone that is written for health professionals.

For more information, call 1-800-321-4576.

What are the ingredients in Primidone?

Active Ingredient: primidone, USP

Inactive Ingredients: lactose monohydrate, NF; magnesium stearate, NF; methylcellulose, USP; microcrystalline cellulose, NF; purified water, USP; sodium lauryl sulfate, NF; sodium starch glycolate, NF; and talc, USP.

Primidone 250 mg tablets also contain ferric oxide yellow, NF.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

Rev. 02/2018

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9623400

PRINCIPAL DISPLAY PANEL - 250 mg Tablet Bottle Label

NDC 68682-690-10

Rx Only

**Primidone, USP
Tablets**

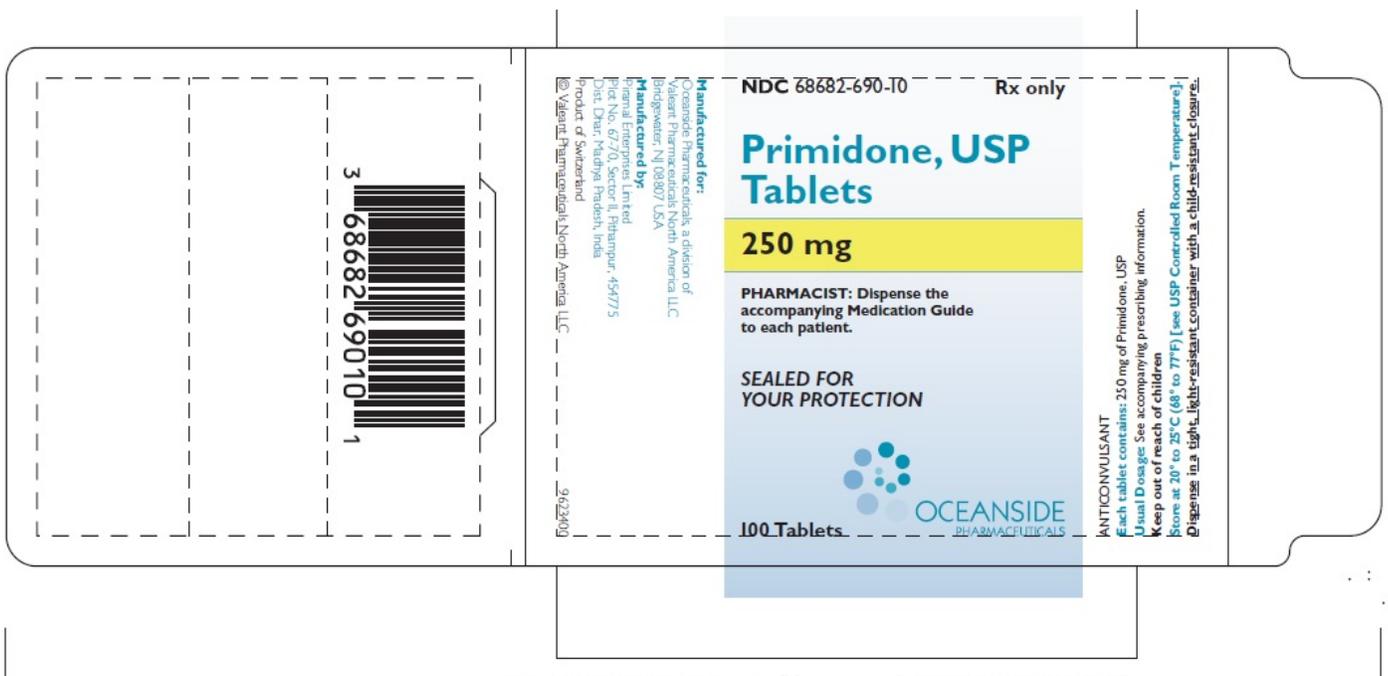
250 mg

**PHARMACIST: Dispense the accompanying
Medication Guide to each patient.**

**SEALED FOR
YOUR PROTECTION**

100 Tablets

**OCEANSIDE
PHARMACEUTICALS**



PRINCIPAL DISPLAY PANEL - 50 mg Tablet Bottle Label

NDC 68682-691-10

Rx Only

**Primidone, USP
Tablets**

50 mg

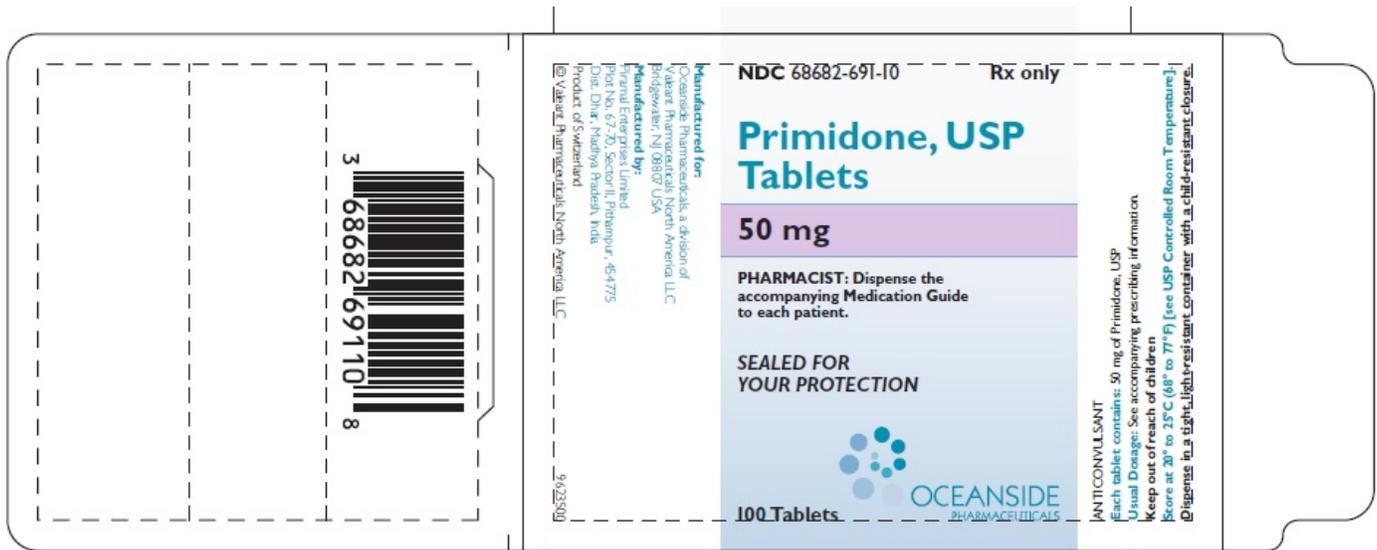
PHARMACIST: Dispense the accompanying

Medication Guide to each patient.

SEALED FOR
YOUR PROTECTION

100 Tablets

OCEANSIDE
PHARMACEUTICALS



PRIMIDONE

primidone tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68682-691
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Primidone (UNII: 13AFD7670Q) (Primidone - UNII:13AFD7670Q)	Primidone	50 mg

Inactive Ingredients

Ingredient Name	Strength
lactose Monohydrate (UNII: EWQ57Q8I5X)	
Magnesium stearate (UNII: 70097M6I30)	
WATER (UNII: 059QF0KO0R)	
sodium lauryl sulfate (UNII: 368GB5141J)	
sodium starch glycolate type a potato (UNII: 5856J3G2A2)	
talc (UNII: 7SEV7J4R1U)	
METHYLCELLULOSE (15 MPA.S) (UNII: NPU9M2E6L8)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	

Product Characteristics

Color	WHITE	Score	2 pieces
Shape	SQUARE	Size	6 mm
Flavor		Imprint Code	MYSOLINE;50;M
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68682-691-10	100 in 1 BOTTLE; Type 0: Not a Combination Product	05/21/2018	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA009170	05/21/2018	

PRIMIDONE

primidone tablet

Product Information

Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:68682-690
Route of Administration	ORAL		

Active Ingredient/Active Moiety

Ingredient Name	Basis of Strength	Strength
Primidone (UNII: 13AFD7670Q) (Primidone - UNII:13AFD7670Q)	Primidone	250 mg

Inactive Ingredients

Ingredient Name	Strength
lactose Monohydrate (UNII: EWQ57Q815X)	
Magnesium stearate (UNII: 70097M61B0)	
sodium starch glycolate type a potato (UNII: 5856J3G2A2)	
talc (UNII: 7SEV7J4R1U)	
sodium lauryl sulfate (UNII: 368GB5141J)	
ferric oxide yellow (UNII: EX438O2MRT)	
WATER (UNII: 059QF0KO0R)	
METHYLCELLULOSE (15 MPA.S) (UNII: NPU9M2E6L8)	
MICROCRYSTALLINE CELLULOSE (UNII: OP1R32D61U)	

Product Characteristics

Color	YELLOW	Score	2 pieces
Shape	SQUARE (square-shaped)	Size	10mm
Flavor		Imprint Code	MYSOLINE;250;M
Contains			

Packaging

#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:68682-690-10	100 in 1 BOTTLE; Type 0: Not a Combination Product	05/21/2018	

Marketing Information

Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
NDA authorized generic	NDA009170	05/21/2018	

Labeler - Oceanside Pharmaceuticals (832011691)

Establishment

Name	Address	ID/FEI	Business Operations
Piramal Enterprises Limited		862202793	MANUFACTURE(68682-691, 68682-690) , PACK(68682-691, 68682-690) , LABEL(68682-691, 68682-690)

Revised: 2/2018

Oceanside Pharmaceuticals