

PRODUCT MONOGRAPH

Pr ^{ph}l-HYDROCHLOROTHIAZIDE

(Hydrochlorothiazide Tablets USP)

12.5 mg

DIURETIC - ANTIHYPERTENSIVE

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Pr **phl-HYDROCHLOROTHIAZIDE**

(Hydrochlorothiazide Tablets, USP)

12.5 mg Tablets

Diuretic - Antihypertensive

PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

Route of Administration	Dosage Form/ Strength	Clinically Relevant Nonmedicinal Ingredients
Oral	tablet 12.5 mg	None. <i>For a complete listing see Dosage Forms, Composition and Packaging section.</i>

INDICATIONS AND CLINICAL USE

phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide) is indicated for the treatment of:

- Edema
- Hypertension
- Toxemia of Pregnancy

Edema

phl-HYDROCHLOROTHIAZIDE (hydrochlorothiazide) is indicated in edema associated with congestive heart failure, hepatic cirrhosis, corticosteroid and estrogen therapy, premenstrual tension with edema and in edema of renal origin (i.e. nephrotic syndrome, acute glomerulonephritis and chronic renal disease). In obese patients in whom fluid retention is a complicating factor, it may help to initiate a loss of fluid and, thus of weight.

Hypertension

phl-HYDROCHLOROTHIAZIDE may be used alone or as an adjunct to other antihypertensive drugs. Since it enhances the action of these agents, their dosage must be reduced to avoid an excessive drop in pressure and other unwanted side effects.

Toxemia of Pregnancy

phl-HYDROCHLOROTHIAZIDE may be effective in the treatment of toxemia of pregnancy

(including eclampsia).

Geriatrics (> 65 years of age): No data is available.

Pediatrics (0 to 16 years of age): No data is available.

CONTRAINDICATIONS

- phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide Tablets, USP), as all diuretics, is contraindicated in anuria.
- phl-HYDROCHLOROTHIAZIDE should be discontinued if increasing azotemia and oliguria occur during treatment of severe progressive renal disease.
- phl-HYDROCHLOROTHIAZIDE is contraindicated in persons known to be sensitive to hydrochlorothiazide or to other sulfonamide-derived drugs.
- Patients who are hypersensitive to any ingredient in the formulation of phl-HYDROCHLOROTHIAZIDE or component of the container. For a complete listing, see the **Dosage Forms, Composition and Packaging** section of the product monograph.

WARNINGS AND PRECAUTIONS

General

Patients on long therapy with hydrochlorothiazide are required to be on potassium rich diet. Periodic determinations of serum electrolytes to detect possible electrolyte imbalance should be performed.

The antihypertensive effects of the drug may be enhanced in the postsympathectomy patient.

Carcinogenesis and Mutagenesis

No data available.

Cardiovascular

No data available.

Ear/Nose/Throat

No data available.

Endocrine and Metabolism

Calcium: Calcium excretion is decreased by thiazides.

Chloride: Chloride deficiency is generally mild and does not require specific treatment except under special conditions such as renal or/and hepatic disease.

Dilutional Hyponatremia: Dilutional hyponatremia may occur in edematous patients in hot

weather; appropriate therapy is water restriction rather than administration of salt except when hyponatremia is life threatening. In actual salt depletion, appropriate replacement is the therapy of choice.

Fluid and electrolyte imbalance: All patients receiving thiazide should be observed for clinical signs of fluid or electrolyte imbalance: namely hyponatremia, hypochloremic alkalosis, and hypokalemia. Serum and urine electrolyte determinations are particularly important when the patient is vomiting excessively, or receiving parenteral fluids. Warning signs of serum electrolyte imbalance, irrespective of cause are: dryness of mouth, thirst, weakness, lethargy, drowsiness, restlessness, muscle pains or cramps, muscular fatigue, hypotension, oliguria, tachycardia, and gastrointestinal disturbances such as nausea and vomiting. Serum electrolytes may also be influenced by medication such as digitalis.

Hyperuricemia: Hyperuricemia may occur or frank gout may be precipitated in certain patients receiving thiazide therapy.

Hypokalemia: Hypokalemia may develop, especially with rapid diuresis, when severe cirrhosis is present or during concomitant use of corticosteroids or ACTH. Deficient oral electrolyte intake will also contribute to hypokalemia. Hypokalemia may sensitize or exaggerate the response of the heart to the toxic effects of digitalis (e.g. increased ventricular irritability). Hypokalemia may be avoided or treated by the use of potassium supplements.

Insulin: Insulin requirements in diabetic patients may be increased, decreased, or remain unchanged. Latent diabetes mellitus may become manifest during thiazide therapy. Concomitant therapy with lithium is not recommended with diuretics because of the reduction of renal clearance of lithium and therefore an added risk of lithium toxicity.

Parathyroid gland: Pathological changes in the parathyroid gland with hypercalcemia and hypophosphatemia have been observed in a few patients on prolonged thiazide therapy. The common complications of hyperparathyroidism such as renal lithiasis, bone resorption, and peptic ulceration have not been reported. Use of thiazides should be discontinued before carrying out tests for parathyroid function.

Protein bound iodine (PBI): Thiazides may decrease serum PBI levels without signs of thyroid disturbance.

Gastrointestinal

Non-specific small bowel lesions consisting of stenosis with or without ulceration, may occur in association with the administration of enteric coated potassium salts, alone or with oral diuretics. These small bowel lesions have caused obstruction, hemorrhage and perforation. Surgery was frequently required and deaths have occurred. Available information tends to implicate enteric coated potassium salts, although lesions of this type also occur spontaneously. Such preparations should be used only when adequate dietary supplementation is not practical, and should be discontinued immediately if abdominal pain, distention, nausea, vomiting or gastrointestinal bleeding occur.

Genitourinary

No data available.

Hematologic

No data available.

Hepatic/biliary/Pancreatic

Hydrochlorothiazide should be used with caution in patients with impaired hepatic function or progressive liver disease, since minor alterations of fluid and electrolyte balance or of serum ammonia may precipitate hepatic coma.

Immune

The possibility of exacerbation or activation of systemic lupus erythematosus has been reported.

Sensitivity reactions may occur in patients with or without a history of allergy or bronchial asthma.

Neurologic

No data available.

Ophthalmologic

No data available.

Peri-Operative Considerations

No data available.

Psychiatric

No data available.

Renal

In progressive renal impairment, therapy with hydrochlorothiazide should be withheld or discontinued.

Hydrochlorothiazide may commence or precipitate azotemia. It should be used with caution in patients with severely impaired renal function to avoid toxic or cumulative effect. If azotemia becomes more severe and oliguria occurs during treatment of patients with severe renal disease, administration of the diuretic must be stopped.

Respiratory

No data available.

Sensitivity/Resistance

No data available.

Sexual Function/Reproduction

No data available.

Skin

No data available.

Special Population

Pregnant Women

Thiazides cross the placental barrier and appear in cord blood. When hydrochlorothiazide is used in pregnancy or in women of child-bearing age, the potential benefits of the drug should be weighed against the possible hazards to the fetus. These hazards include fetal or neonatal jaundice, thrombocytopenia, and possibly other adverse reactions which have occurred in the adult.

The routine use of diuretics in otherwise healthy pregnant women with or without mild edema is not indicated.

Nursing Women

Since thiazides appear in breast milk, hydrochlorothiazide is contraindicated in nursing mothers. If use of the drug is deemed essential, the patient should stop nursing.

Pediatrics (0 to 18 years of age)

Safety and effectiveness in children under 18 years of age have not been established.

Geriatrics

Safety and effectiveness in adults over 65 years of age have not been established.

ADVERSE REACTIONS

Whenever adverse reactions are moderate or severe, thiazide dosage should be reduced or therapy withdrawn.

Cardiovascular: Orthostatic hypotension (may be aggravated by alcohol, barbiturates, or narcotics).

Central nervous system: Dizziness, vertigo, paresthesias, headache, xanthopsia.

Gastrointestinal system: Anorexia, gastric irritation, nausea, vomiting, cramps, diarrhea, constipation, jaundice (intrahepatic cholestatic jaundice), pancreatitis, sialadenitis.

Hematologic: Leukopenia, agranulocytosis, thrombocytopenia, aplastic anemia.

Hypersensitivity: Purpura, photosensitivity, rash, urticaria, necrotizing angitis (vasculitis), fever, respiratory distress including pneumonitis, anaphylactic reactions.

Other: Hyperglycemia, glycosuria, hyperuricemia, muscle spasm, weakness, restlessness, transient blurred vision.

DRUG INTERACTIONS

Hydrochlorothiazide adds to or potentiates the action of other antihypertensive drugs. Potentiation occurs especially with ganglionic or peripheral adrenergic blocking drugs.

Drug-Drug Interactions

Alcohol, barbiturates or narcotics: Orthostatic hypotension may occur and may be potentiated by alcohol, barbiturates, or narcotics.

Lithium: Concomitant therapy with lithium is not recommended with diuretics because of the reduction of renal clearance of lithium and therefore an added risk of lithium toxicity.

Norepinephrine: Thiazides may decrease arterial responsiveness to norepinephrine. This diminution is not sufficient to preclude effectiveness of the pressor agent for therapeutic use.

Probenecid: The rate of elimination of hydrochlorothiazide is decreased somewhat by the coadministration of probenecid without, however, an accompanying reduction in diuresis.

Tubocurarine: Thiazide drugs may increase the responsiveness to tubocurarine.

Drug-Food Interactions

Interactions with food have not been established.

Drug-Herb Interactions

Interactions with herbal products have not been established.

Drug-Laboratory Test Interactions

There are no known interactions of Hydrochlorothiazide with commonly used laboratory tests.

DOSAGE AND ADMINISTRATION

Therapy should be individualized according to the patients requirement. Use the smallest dosage necessary to achieve the required response.

Dosing Considerations

Adult patients

- Diuresis
- Toxemia of pregnancy
- Premenstrual tension with edema
- Control of Hypertension

Infants and Children

Adult patients

Diuresis

The recommended adult dosage is 50 to 100 mg once or twice a day. Many patients respond to intermittent therapy, i.e. administration on alternate days or on three to five days each week.

With an intermittent schedule, excessive response and the resulting undesirable electrolyte imbalance are less likely to occur.

Toxemia of pregnancy

the recommended dosage is 100 mg daily or, in severe cases and for brief periods, 200 mg daily (in divided doses). Frequency of administration may range from once every four days to daily.

Premenstrual tension with edema

The recommended dosage is 25 to 50 mg once or twice a day from the first appearance of symptoms until onset of the menses.

Control of Hypertension

The usual recommended starting dosage is 50 or 100 mg a day as a single or divided dose. Dosage is increased or decreased according to the blood pressure response of the patient. Some patients may require doses of 200 mg a day in divided doses.

Careful observation for changes in blood pressure must be made when phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide Tablets, USP) is used with other antihypertensive drugs, especially during initial therapy. The dosage of other agents must be reduced by at least 50%, as soon as it is added to the regimen, to prevent excessive drop in blood pressure. As the blood pressure falls under the potentiating effect of this agent, a further reduction in dosage, or discontinuation of other antihypertensive drugs may be necessary. A single daily dose as low as 12.5 mg of Hydrochlorothiazide could be used in combination with another antihypertensive.

In the case of hypertension monotherapy, doses as low as a single daily dose 12.5 mg may be effective (especially in the elderly or as a starting dose), as well as a daily dose of 25 mg given in two divided doses.

Infants and Children

The usual recommended pediatric dosage is based on 1.0 mg of phl-

HYDROCHLOROTHIAZIDE per pound of body weight per day in two doses. Infants under 6 months of age may require up to 1.5 mg per pound per day in two doses.

On this basis, infants up to 2 years of age may be given 12.5 to 37.5 mg daily in two doses. Children from 2 to 12 years of age may be given 37.5 to 100 mg daily in two doses. Dosage in both age groups should be based on body weight.

OVERDOSAGE

Symptoms

Overdosage of hydrochlorothiazide may produce diuresis accompanied with electrolyte imbalance (hypokalemia, hyponatremia and hypochloremic alkalosis) and dehydration.

The symptoms are as follows: dryness of mouth, thirst, weakness, lethargy, drowsiness, restlessness, muscle pains or cramps, muscular fatigue, hypotension, oliguria, tachycardia, gastrointestinal disturbances, mental confusion, delirium, convulsions, shock, coma.

Hypokalemia can sensitize or exaggerate the response of the heart to the toxic effects of digitalis (e.g. increased ventricular irritability).

Hydrochlorothiazide may precipitate hepatic coma in patients with cirrhosis; increase the effect of other antihypertensive agents and decrease arterial responsiveness to norepinephrine.

Treatment

No specific antidote is available.

Treatment is symptomatic and supportive. Induce emesis or perform gastric lavage. Correct dehydration, electrolyte imbalance, hepatic coma, and hypotension by established procedures. Administer oxygen or artificial respiration for respiratory impairment.

ACTION AND CLINICAL PHARMACOLOGY

Mechanism of Action

Hydrochlorothiazide is a diuretic and an antihypertensive agent. The exact mechanism of the antihypertensive effect is unknown. Hydrochlorothiazide has no effect on normal blood pressure.

Hydrochlorothiazide affects the renal tubular mechanism of electrolyte reabsorption. It increases excretion of sodium and chloride in approximately equivalent amounts and reduces the rate of formation of solute-free water. Natriuresis causes a secondary loss of potassium and bicarbonate.

Pharmacokinetics

Absorption: Hydrochlorothiazide is rapidly absorbed from the gastrointestinal tract. Onset of action after oral administration occurs in 2 hours and the peak effect at approximately 4 hours. Duration of action persists for approximately 6 to 12 hours.

Distribution: The drug is distributed throughout the extracellular space and does not accumulate in tissues other than the kidney. It passes readily through the placental barrier to the fetus.

Metabolism: Hydrochlorothiazide is not metabolized.

Excretion: Hydrochlorothiazide is eliminated rapidly by the kidney.

STORAGE AND STABILITY

phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide Tablets, USP) Tablets should be stored at controlled room temperature (15°to 30°C).

DOSAGE FORMS, COMPOSITION AND PACKAGING

phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide Tablets, USP) tablets are available for oral use in the dosage strength of 12.5 mg hydrochlorothiazide, USP.

Availability of Dosage Forms

phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide Tablets, USP) Tablets are supplied as:

12.5 mg tablets: Round, peach-colored, flat-faced, beveledged tablets, with debossed “P” logo on one side and plain on the other side. Supplied in bottles of 500 tablets.

Composition

phl-HYDROCHLOROTHIAZIDE (Hydrochlorothiazide Tablets, USP) 12.5 mg tablets contains 12.5 mg of Hydrochlorothiazide. Non medicinal ingredients (alphabetical): alginic acid, FD&C Yellow No. 6 Aluminum Lake, silicon dioxide, magnesium stearate, microcrystalline cellulose and sodium carboxymethylcellulose.

Product Monograph available upon request.

Pharmel Inc.
Montreal, Quebec H4P 2T4

PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

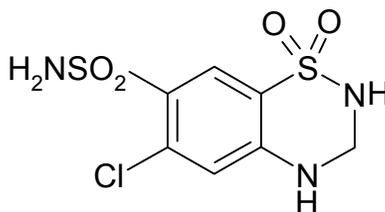
Drug Substance

Proper Name: Hydrochlorothiazide

Chemical Name: 6-chloro-3,4-dihydro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide

Molecular formula and molecular mass: $C_7H_8ClN_3O_4S_2$; 297.72 g/mol

Structural formula:



Physicochemical properties: Hydrochlorothiazide is a white or almost white odourless crystalline powder with a slightly bitter taste. It is almost insoluble in water, benzene, chloroform, ether and dilute mineral acids, and soluble 1 in 500 of alcohol and 1 in 50 of acetone. It is freely soluble in dimethyl formamide, n-butylamine and solutions of alkali hydroxides..

DETAILED PHARMACOLOGY

Orally, hydrochlorothiazide is an effective diuretic and antihypertensive agent. Diuresis is effected by inhibition of tubular resorption of electrolytes and an accompanying volume of water. Hydrochlorothiazide increases the excretion of sodium and chloride in approximately equivalent amounts and causes a simultaneous, usually minimal loss of bicarbonate. The excretion of ammonia is reduced slightly as a consequence of which concentrations of ammonia in the blood may be increased. Hydrochlorothiazide slightly increases the excretion of potassium. Calcium

excretion is decreased and magnesium excretion is increased.

TOXICOLOGY

Acute Toxicity

SPECIES	ROUTE	LD ₅₀ (mg/kg)
MOUSE	ORAL	10,000*
MOUSE	I.V.	884
RAT	ORAL	10,000*
RAT	I.P.	3,130*
RABBIT	I.V.	461
DOG	I.V.	1,000

Dogs tolerated at least 2,000 mg/kg orally without signs of toxicity.

*Hydrochlorothiazide was administered as a suspension.

Subacute Toxicity:

Rat

Hydrochlorothiazide administered to rats, orally as a suspension at doses of 500, 1,000 and 2,000 mg/kg/day, 5 days/week, for 3 weeks did not produce any toxic symptoms. Three of the ten rats which received 2,000 mg/kg/day of sodium hydrochlorothiazide salt died after the 5th day of treatment.

The mortality was attributed to pneumonia.

Dog

Hydrochlorothiazide administered to dogs, orally at doses of 250, 500 and 1,000 mg/kg, 7 days/week for 8 weeks did not produce any observable adverse effects or gross signs of drug toxicity except for electrolytic imbalance.

Chronic Toxicity

Rat and Dog

The results of 6-month chronic oral toxicity on hydrochlorothiazide in rats and dogs indicated no toxicity attributable to the drug administered to rats at doses of up to 2 grams/kg/day and to dogs at doses of up to 250 mg/kg/day. On gross examination the following changes were observed in the dog: slight depression of plasma potassium; small amounts of yellow crystalline precipitate in the bladder in two of twelve dogs tested. Histomorphologic studies did not show any drug related changes.

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IMPORTANT: PLEASE READ

PART III: CONSUMER INFORMATION

^{PP}phl-HYDROCHLOROTHIAZIDE Hydrochlorothiazide Tablets USP

This leaflet is part III of a three-part “Product Monograph” published when phl-HYDROCHLOROTHIAZIDE was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about phl-HYDROCHLOROTHIAZIDE. Contact your doctor or pharmacist if you have any questions about the drug.

ABOUT THIS MEDICATION

What the medication is used for:
phl-HYDROCHLOROTHIAZIDE has been prescribed to you for edema (swelling) associated with heart failure, cirrhosis of the liver, corticosteroid and estrogen therapy and for edema originating from the kidneys; or hypertension; or toxemia (hypertension) due to pregnancy.

What it does:
phl-HYDROCHLOROTHIAZIDE elevates the rate of urine secretion and lowers blood pressure. Hydrochlorothiazide affects the kidneys ability to reabsorb electrolytes. It increases excretion of sodium and chloride in approximately equivalent amounts and reduces the rate of formation of solute-free water.

When it should not be used:

You should not use phl-HYDROCHLOROTHIAZIDE if you:

- are allergic to Hydrochlorothiazide or to other sulfonamide-derived drugs.
- are allergic to any of the other ingredients in the product (please see “What the nonmedicinal ingredients are”)
- have no production of urine.
- experience an increase of urea or creatinine and a decrease in urine production during treatment of severe progressive kidney disease.

Stop taking the drug and contact your doctor immediately if you experience an allergic reaction or any severe or unusual side effects.

What the medicinal ingredient is:

Hydrochlorothiazide.

What the nonmedicinal ingredients are:

Alginic acid, colloidal silicon dioxide, FD&C Yellow No. 6 Aluminum Lake, magnesium stearate, microcrystalline cellulose and sodium carboxymethylcellulose.

What dosage forms it comes in:

Tablets: 12.5 mg

WARNINGS AND PRECAUTIONS

Before you use phl-HYDROCHLOROTHIAZIDE talk to your doctor or pharmacists if:

- If you are taking enteric-coated potassium salts
- If you have impaired liver function or progressive liver disease
- If you have impaired kidney function
- If you are taking anti-hypertensive medication or other adrenergic blocking drugs.
- If you have a history of sensitivity reactions or a history of allergic reactions to this or other medications
- If you have lupus

Remember to keep this and other medications away from children.

Tell your physician or pharmacist all medication you are taking, including any non-prescription or herbal medicines.

Other precautions:

Do not take phl-HYDROCHLOROTHIAZIDE if you are:

- pregnant or breast-feeding.
- are allergic to any of it’s ingredients

INTERACTIONS WITH THIS MEDICATION

Drugs that may interact with phl-HYDROCHLOROTHIAZIDE include:

- Lithium. Concomitant therapy with lithium is not recommended with phl-HYDROCHLOROTHIAZIDE because of the reduction of kidney clearance of lithium and therefore an added risk of lithium toxicity.
- Orthostatic hypotension (low blood pressure while you are standing) may occur and may be enhanced by alcohol, barbiturates, or narcotics.

You should always tell your physician about all drugs you are taking, including those obtained without a prescription.

PROPER USE OF THIS MEDICATION

Take this medicine exactly as prescribed by your physician.

Adult patients

Diuresis

The recommended adult dosage is 50 to 100 mg once or twice a day. Many patients respond to intermittent therapy, i.e. administration on alternate days or on three to five days each week.

Toxemia of pregnancy

The recommended dosage is 100 mg daily or, in severe cases and for brief periods, 200 mg daily (in divided doses). Frequency of administration may range from once every four days to daily.

Premenstrual tension with swelling

The recommended dosage is 25 to 50 mg once or twice a day from the first appearance of symptoms until onset of the menses.

Control of Hypertension

The usual recommended starting dosage is 50 or 100 mg a day as a single or divided dose. Dosage is increased or decreased according to the blood pressure response of the patient. Some patients may require doses of 200 mg a day in divided doses.

Infants and Children

The usual recommended pediatric dosage is based on 1.0 mg of phl-HYDROCHLOROTHIAZIDE per pound of body weight per day in two doses. Infants under 6 months of age may require up to 1.5 mg per pound per day in two doses.

On this basis, infants up to 2 years of age may be given 12.5 to 37.5 mg daily in two doses.

Overdose:

If you take too many doses, call your physician immediately.

Missed Dose:

If you miss a dose, and it is close to the next scheduled dose, take your medicine at the next scheduled time. Do NOT double dose.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Gastrointestinal system: Decreased appetite, gastric irritation, nausea, vomiting, cramps, diarrhea, constipation, jaundice (intrahepatic cholestatic jaundice), inflammation of the pancreas, inflammation or enlargement of salivary glands.

Central nervous system: Dizziness, a feeling that you or your surroundings are moving, sensation of tingling or numbness, headache, impaired sense of sight.

Hematologic: Leukopenia, agranulocytosis, thrombocytopenia, aplastic anemia.

Cardiovascular: postural hypotension (may be aggravated by alcohol, barbiturates, or narcotics).

Hypersensitivity: spontaneous bleeding under the skin, sensitivity to light, rash, red patches on the skin, fever, respiratory distress including pneumonitis, anaphylactic reactions.

Other: Hyperglycemia, muscle spasm, weakness, restlessness, transient blurred vision.

SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM

Symptom/effect		Talk with your doctor or pharmacist		Stop taking drug and call your doctor or pharmacist
		If effect persists or becomes bothersome	In all cases	
Common	Allergic reactions (swelling, skin rash, itching)			√
	Chest Pain			√
	Stomach ulcer (burning pain in the gut, vomiting...)		√	
	Blood problems (loss of energy, low blood platelet count...)		√	
	Imbalance of minerals in the blood		√	

This is not a complete list of side effects. If you have any unexpected effects while taking this drug, contact your doctor or pharmacist.

HOW TO STORE IT

- Store at controlled room temperature, 15°- 30°C (59° - 86°F).
- Keep out of the reach and sight of children.
- Do not use after the expiry date indicated on the package.

MORE INFORMATION

This document plus the full product monograph, prepared for health professionals can be obtained by contacting Pharmel Inc. at 1-888-550-6060.