

**Intermediate Prescribing information**

**Tegretol®** (carbamazepine)

TEGRETOL® 200 mg  
TEGRETOL® CHEWTABS™ 100 mg and 200 mg  
TEGRETOL® CR 200 mg and 400 mg

**Indications**

Symptomatic relief of pain of true or primary trigeminal neuralgia. Not for prophylactic use. Glossopharyngeal neuralgia has been relieved in some patients.

Management of psychomotor (temporal lobe) epilepsy. As an adjunct in some patients with secondary or partial epilepsy with complex symptomatology or secondarily generalized seizures, when combined with other antiepileptic agents.

As an alternative in patients with generalized tonic-clonic seizures and marked side effects or who fail to respond to other anticonvulsant drugs.

Ineffective for controlling petit mal, minor motor, myoclonic and predominantly unilateral seizures, and does not prevent generalization of epileptic discharge. Exacerbation of seizures may occur in patients with atypical absences.

**Contraindications**

History of hepatic disease or serious blood disorder, in patients with AV heart block (see *Precautions*), hypersensitivity to carbamazepine or to tricyclic compounds.

Do not give with, or within 2 weeks of treatment with monoamine oxidase inhibitors.

Safe use in pregnancy has not been established. Do not administer in first 3 months of pregnancy. Do not give to women of child-bearing potential unless benefits outweigh possible risks to the fetus. Avoid nursing while on TEGRETOL.

**Warnings**

Although infrequent, serious adverse effects have occurred during TEGRETOL use. Agranulocytosis and aplastic anemia have occurred in a few instances with fatal outcome. Leucopenia, thrombocytopenia, hepatocellular and cholestatic jaundice, and hepatitis have occurred. Use TEGRETOL carefully with close clinical and laboratory supervision during treatment in order to detect signs and symptoms of blood dyscrasias.

Long-term toxicity studies in rats showed potential carcinogenic risk. Weigh possible risk of drug use against potential benefits before prescribing carbamazepine.

**Precautions**

Perform complete blood studies, including platelet counts, and evaluate hepatic and renal function and urinalysis before starting treatment. Maintain close clinical and laboratory supervision during treatment, including frequent complete blood counts. Discontinue TEGRETOL if signs or symptoms or abnormal laboratory findings suggestive of blood dyscrasia or liver disorder occur until case is reassessed.

Non-progressive or fluctuating asymptomatic leucopenia may occur and does not generally require TEGRETOL withdrawal. Discontinue TEGRETOL if the patient develops leucopenia which is progressive or accompanied by clinical symptoms.

Give TEGRETOL cautiously, if at all, to patients with increased intraocular pressure or urinary retention. Monitor closely.

TEGRETOL may activate latent psychosis, or cause agitation or confusion, especially when used with other drugs. Use caution in alcoholic patients.

Use cautiously in patients with history of coronary artery disease, organic heart disease, or congestive failure. If a defective conductive system is suspected, perform an ECG to exclude patients with AV block.

Warn patients of possible hazards of operating machinery or driving automobiles due to possible dizziness and drowsiness with therapy.

**Drug Interactions:**

Hepatic enzyme induction by TEGRETOL may diminish activity of drugs metabolized in the liver.

Combined use of TEGRETOL with verapamil, diltiazem, erythromycin, troleandomycin, cimetidine, propoxyphene or isoniazid, can result in elevated plasma carbamazepine levels. Adapt carbamazepine dosage and monitor blood levels.

Concomitant use of carbamazepine and lithium may increase neurotoxic side effect risk.

Adapt dosage of anticoagulants to clinical needs whenever TEGRETOL is initiated or withdrawn.

TEGRETOL may decrease reliability of oral contraceptives. Advise patients to use alternative, non-hormonal method of contraception.

TEGRETOL may reduce alcohol tolerance; avoid alcohol during treatment.

Do not administer TEGRETOL in conjunction with MAO inhibitors. (See *Contraindications*.)

**Adverse Reactions**

**Hematologic** - Transitory leucopenia, eosinophilia, hyponatremia, leucocytosis, thrombocytopenic purpura, agranulocytosis, macrocytic anemia, aplastic anemia. In a few cases, deaths have occurred.

**Hepatic** - During long-term use, abnormal liver function tests, cholestatic and hepatocellular jaundice, hepatitis.

**Dermatologic** - Skin sensitivity reactions and rashes, erythematous rashes, pruritic eruptions, urticaria, photosensitivity, pigmentary changes, neurodermatitis. In rare cases Stevens-Johnson syndrome, toxic epidermal necrolysis, exfoliative dermatitis, alopecia, diaphoresis, erythema multiforme, erythema nodosum, aggravation of disseminated lupus erythematosus.

**Neurologic** - Vertigo, somnolence, ataxia, confusion, headache, fatigue, blurred vision, visual hallucinations, transient diplopia and oculomotor disturbances, speech disturbances, abnormal involuntary movements, increase in motor seizures. In rare

cases, peripheral neuritis and paresthesia, depression with agitation, talkativeness, nystagmus, hyperacusis, and tinnitus. There have been reports of paralysis and other symptoms of cerebral arterial insufficiency but no conclusive relationship to TEGRETOL could be established.

**Cardiovascular** - Thromboembolism, recurrence of thrombophlebitis in patients with prior history of thrombophlebitis, primary thrombophlebitis, congestive heart failure, aggravation of hypertension, Stokes-Adams in patients with AV block, hypotension, syncope and collapse, edema, aggravation of coronary artery disease. Some of these effects (including myocardial infarction and arrhythmia) have been associated with other tricyclic agents.

**Genitourinary** - Urinary frequency, acute urinary retention, oliguria with elevated BP, azotemia, renal failure, impotence, elevation of BUN, albuminuria, glycosuria.

**Respiratory** - Pulmonary hypersensitivity characterized by fever, dyspnea, pneumonitis or pneumonia.

**Gastrointestinal** - Nausea, vomiting, gastric or abdominal discomfort, diarrhea or constipation, anorexia, dryness of the mouth and throat, glossitis, stomatitis.

**Ophthalmic** - There is no conclusive evidence that TEGRETOL produces pathological changes in the cornea, lens or retina. However, many phenothiazines and related drugs have been shown to cause eye changes. Periodic eye examinations, including slit-lamp funduscopy and tonometry, are recommended.

Other: fever and chills, aching joints and muscles, leg cramps, conjunctivitis, adenopathy or lymphadenopathy.

**Dosage and Administration**

**Epilepsy:**

Take TEGRETOL tablets and CHEWTABS in 2-4 divided doses daily, with meals whenever possible.

Swallow TEGRETOL CR tablets (either whole or, if so prescribed, only half a tablet) unchewed with some liquid during or after meals. These should be prescribed as a twice-daily dosage. If needed, 3 divided doses may be prescribed.

**Adults and Children Over 12 Years of Age:**

Initially, 100-200 mg 1-2 times/day depending on severity of case and previous therapeutic history. Increase dose progressively, in divided doses, until best response obtained. Usual optimal dosage is 800-1200 mg/day. Rarely, some adults have received 1600 mg. Once seizures disappear and remain controlled, reduce dose very gradually until minimum effective dose is reached.

**Children 6-12 Years of Age:**

Initially, 100 mg in divided doses on Day 1. Increase gradually by 100 mg/day until best response is obtained. Do not exceed 1000 mg/day. Once seizures disappear and remain controlled, reduce dose very gradually until minimum effective dose is reached.

**Trigeminal Neuralgia:**

Initially, 200 mg in 2 doses of 100 mg. Increase total daily dosage by 200 mg/day until pain relief is obtained. This usually occurs at 200-800 mg/day, but 1200 mg/day may be needed. Reduce dose progressively once pain relief is obtained and maintained, until minimal effective dosage is reached. Because trigeminal neuralgia is characterized by periods of remission, attempt to reduce or discontinue TEGRETOL at intervals of not more than 3 months, depending upon clinical course.

Not for prophylactic use.

**Availability**

**TEGRETOL Tablets 200 mg:** Each white, round, flat, bevelled-edge double-scored tablet engraved GEIGY on one side contains 200 mg carbamazepine. Bottles of 100 and 500 tablets.

**TEGRETOL CHEWTABS 100 mg:** Pale pink, round, flat, bevelled-edge tablets with distinct red spots. GEIGY engraved on one side and MR on the other. Fully bisected between the M and R. Each chewable tablet contains 100 mg carbamazepine. Bottles of 100 CHEWTABS.

**TEGRETOL CHEWTABS 200 mg:** Pale pink, oval biconvex tablets with distinct red spots. GEIGY engraved on one side and PU engraved on the other. Fully bisected between the P and U. Each chewable tablet contains 200 mg carbamazepine. Bottles of 100 CHEWTABS.

**TEGRETOL CR 200 mg:** Beige-orange, capsule-shaped, slightly biconvex tablet, engraved CG/CG on one side and HC/HC on the other. Fully bisected on both sides. Each controlled release tablet contains 200 mg carbamazepine. Bottles of 100 tablets.

**TEGRETOL CR 400 mg:** Brownish-orange, capsule-shaped, slightly biconvex tablet, engraved CG/CG on one side and ENE/ENE on the other. Fully bisected on both sides. Each controlled release tablet contains 400 mg carbamazepine. Bottles of 100 tablets.

Protect from heat and humidity. Product Monograph available on request.

**REFERENCES:**

- Smith DB, et al: Results of a nationwide Veterans Administration cooperative study comparing the efficacy and toxicity of carbamazepine, phenobarbital, phenytoin, and primidone. *Epilepsia* 1987; 28(Suppl 3): 550-558.
- Trimble MR: Anticonvulsant drugs and cognitive function: a review of the literature. *Epilepsia* 1987; 28(Suppl 3): 537-545.
- Dooley JM: Seizures in childhood. *Medicine North America* 1989; 4th series 2: 163-172.
- Reynolds EH: Polytherapy, monotherapy, and carbamazepine. *Epilepsia* 1987; 28(Suppl 3): 577-580.
- Aldenkamp AP, et al: Controlled release carbamazepine: cognitive side effects in patients with epilepsy. *Epilepsia* 1987; 28(5): 507-514.
- Canger R, et al: Conventional vs controlled-release carbamazepine: a multicentre, double-blind, cross-over study. *Acta Neurol Scand* 1990; 82: 9-13.

**Geigy**

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# add IN EPILEPSY **Frisium®** 10 mg (clobazam) TO ACHIEVE SEIZURE CONTROL

Frisium (clobazam) Tablets, 10 mg

**THERAPEUTIC CLASSIFICATION** Anticonvulsant for adjunctive therapy. **ACTIONS** Frisium (clobazam) is a 1,5-benzodiazepine with anticonvulsant properties. In general, the mode of anti-epileptic action of clobazam is probably largely analogous to that of the 1,4-benzodiazepines. The differences between clobazam (a 1,5-benzodiazepine) and the 1,4-benzodiazepines in terms of therapeutic efficacy and neuro-toxicity are possibly due to the variation in degree of the agonist action at the high affinity benzodiazepine receptor or to differing relative action at the high and low affinity benzodiazepine receptors. Regarding the mechanism of action, it is likely that modifications to the function of gamma-aminobutyric acid (GABA) as an important inhibitory neurotransmitter underlie the pharmacological effects of the benzodiazepines. Electro-physiologic studies have shown that benzodiazepines potentiate GABA-ergic transmission at all levels of the neuroaxis, including the spinal cord, hypothalamus, hippocampus, substantia nigra, cerebellar cortex and cerebral cortex. The changes induced by the interaction of GABA with its receptors is enhanced by benzodiazepines, resulting in a decrease in the firing rate of critical neurons in many regions of the brain. The oral absorption of clobazam, like that of all benzodiazepines, is fast and complete. The time to peak concentration ranges from 1 to 4 hours. The administration of food with the drug has variable effects on the rate of absorption. The drug is highly lipophilic and is rapidly distributed in fat and cerebral gray matter. Within 1 to 4 hours of administration it has accumulated in white matter and is then redistributed widely. The volume of distribution is large. Clobazam is extensively metabolized and is not excreted in unchanged form by any species studied. Clobazam forms a number of metabolites with N-desmethyloclobazam being the most important. The half-life of N-desmethyloclobazam is much longer (mean 42 hours; range 36-46 hours) than for clobazam (mean 18 hours; range 10-30 hours). N-desmethyloclobazam reaches higher serum levels, especially with long term administration of clobazam. The half-life increases with the patient's age. The drug is about 85% protein-bound; hepatic disease may alter both the metabolism of the drug and its protein binding thus affecting plasma clobazam levels. There have been no studies that have demonstrated a clear-cut correlation between serum levels of clobazam or of N-desmethyloclobazam to clobazam efficacy. Most reports indicate there is no, or only a very weak, correlation between the clobazam dose, or blood levels, and its clinical effects. Therapeutic blood levels for clobazam are in the range of 50ng - 300ng/mL with the corresponding range for N-desmethyloclobazam being from 1000 - 4000ng/mL. The serum levels at which anti-convulsant effects can be expected are not yet known but it can be assumed that the therapeutic range lies in the order of the figures given above. Since N-desmethyloclobazam blood levels are 10-20 times higher than those for clobazam, and this metabolite also has anti-epileptic effects, it may be more important to the anti-epileptic efficacy of clobazam than the parent compound itself. After oral administration of <sup>14</sup>C-labelled clobazam to man, approximately 90% of the radioactivity was recovered in urine. Seven double-blind studies have been reported in which clobazam was given as adjunctive therapy versus placebo within an established anti-epileptic regimen; clobazam was shown to be significantly superior to placebo. **INDICATIONS** Frisium (clobazam) has been found to be of value as adjunctive therapy in patients with epilepsy who are not adequately stabilized with their current anti-convulsant therapy. **CONTRA-INDICATIONS** Hypersensitivity to clobazam, severe muscle weakness (myasthenia gravis) and narrow angle glaucoma. **WARNINGS** Use in the elderly: Frisium (clobazam) should be used with caution in elderly and debilitated patients, and those with organic brain disorders, with treatment initiated at the lowest possible dose. [See Precautions]. **Potential of drug effects:** Patients should be cautioned about the possibility of additive effects when Frisium is combined with alcohol or other drugs with central nervous system depressant effects. Patients should be advised against consumption of alcohol during treatment with Frisium. [See Precautions]. **Physical and psychological dependence:** Physical and psychological dependence are known to occur in persons taking benzodiazepines. Caution must be exercised if it is at all necessary to administer Frisium to individuals with a history of drug misuse or those who may increase the dose on their own initiative. Such patients must be placed under careful surveillance. Signs and symptoms of withdrawal may follow discontinuation of use of Frisium; thus it should not be abruptly discontinued after prolonged use. [See Precautions]. **Use in pregnancy:** Frisium should not be used in the first trimester of pregnancy and thereafter only if strictly indicated. Nursing mothers in whom therapy with Frisium is indicated should cease breast-

feeding, since clobazam passes into breast milk. Several studies have suggested an increased risk of congenital malformations associated with the use of minor tranquilizers (chloridiazepoxide, diazepam and meprobamate) during the first trimester of pregnancy. If Frisium is prescribed to a woman of child-bearing potential she should be warned to consult her physician regarding the discontinuation of the drug if she intends to become, or suspects she might be, pregnant. **Anterograde amnesia:** Anterograde amnesia is known to occur after administration of benzodiazepines. **Use in patients with depression or psychosis:** Frisium is not recommended for use in patients with depressive disorders or psychosis. **PRECAUTIONS Driving and Hazardous Activities:** Frisium (clobazam) possesses a mild central nervous system depressant effect, therefore patients should be cautioned against driving, operating dangerous machinery or engaging in other hazardous activities, particularly in the dose adjustment period, or until it has been established that they do not become drowsy or dizzy. **Use in the Elderly:** Elderly and debilitated patients, or those with organic brain syndrome, have been found to be prone to the CNS depressant activity of benzodiazepines even after low doses. Manifestations of this CNS depressant activity include ataxia, oversedation and hypotension. Therefore, medication should be administered with caution to these patients, particularly if a drop in blood pressure might lead to cardiac complications. **Initial doses should be low and increments should be made gradually,** depending on the response of the patient, in order to avoid oversedation, neurological impairment and other possible adverse reactions. **Dependence Liability:** Frisium should not be administered to individuals prone to drug abuse. Caution should be observed in all patients who are considered to have potential for psychological dependence. Withdrawal symptoms have been observed after abrupt discontinuation of benzodiazepines. These include irritability, nervousness, insomnia, agitation, tremors, convulsions, diarrhea, abdominal cramps, vomiting and mental impairment. As with other benzodiazepines, Frisium should be withdrawn gradually. **Other:** Loss of part or all of the anti-convulsant effectiveness of clobazam has been described in patients who have been receiving the drug for some time. There is no absolute or universal definition for the phenomenon and reports vary widely on its development. The reported success of clobazam in intermittent therapy in catamenial epilepsy implies that tolerance may be minimized by intermittent treatment but long-term follow-up is unreported. No studies have identified or predicted which patients are likely to develop tolerance or precisely when this might occur. **Use in Mental and Emotional Disorders:** It should be recognized that suicidal tendencies may be present in patients with emotional disorders; particularly those depressed. Protective measures and appropriate treatment may be necessary and should be instituted without delay. Since excitement and other paradoxical reactions can result from the use of benzodiazepines in psychotic patients, Clobazam should not be used in patients suspected of having psychotic tendencies. **Use in Patients with Impaired Renal or Hepatic Function:** Clobazam requires dealkylation and hydroxylation before conjugation. Usual precautions should be taken if Frisium is used in patients who may have some impairment of renal or hepatic function. It is suggested that the dose in such cases be carefully titrated. In patients for whom prolonged therapy with Frisium is indicated, blood counts and liver function should be monitored periodically. **Use in Patients with Acute, Severe Respiratory Insufficiency:** In patients with acute, severe respiratory insufficiency, respiratory function should be monitored. **Laboratory Tests:** If Frisium is administered for repeated cycles of therapy, periodic blood counts and liver and thyroid function tests are advisable. **Drug Interactions:** Most studies of the potential interactions of clobazam with other anti-epileptic agents have failed to demonstrate significant interactions with phenytoin, phenobarbital, or carbamazepine. However, one study noted that the addition of clobazam caused a 25% increase in serum drug levels in 29% of patients taking carbamazepine, 63% of patients taking phenytoin, 13% of those taking valproate and 14% of those on phenobarbital. The contradictory findings in different studies are presumably due to variations in patient susceptibility, and although clinically significant interactions are unusual, they may occur. Alcohol may also significantly increase plasma clobazam levels. **Several of the established anti-epileptic agents:** carbamazepine, diphenylhydantoin, phenobarbital, valproic acid, cause the blood levels of clobazam to decrease slightly. Findings are less consistent with regard to N-desmethyloclobazam: serum levels are lower with concurrent valproic acid, but higher with carbamazepine and diphenylhydantoin. **Toxicologic Studies:** In mouse, clobazam was associated with hepatomas in high-dose males. In rat, an increased

incidence of thyroid adenomas was seen in males. There were three malignancies: two (male and female) in the thyroid and one (female) in the liver. (See Carcinogenicity) The relevance of these findings to man has not been established. **ADVERSE REACTIONS** From 19 published studies of Frisium (clobazam) use in epileptic patients, the overall incidence of side-effects was 33% of which drowsiness, dizziness and fatigue were most frequently reported. Canadian experience provides a similar overall incidence (32%) with drowsiness reported in 17.3% of patients, and 12% of patients terminating treatment because of side-effects. The incidence of side-effects was lower in patients under 16 years of age (23.7%) than the incidence in adults (43.1%); p<0.05, whereas treatment discontinuation incidences were similar across age groups: 10.6% and 13.8% respectively. The following side-effects occurred at incidences of greater than 1% (ataxia [3.9%], weight gain [2.2%], dizziness [1.8%], nervousness [1.6%], behaviour disorder [1.4%], hostility and blurred vision [1.3%]) while other effects occurred at a less than 1% incidence. Symptoms of tiredness may sometimes appear, especially at the beginning of treatment with Frisium and when higher doses are used. Also in rare instances and usually only temporarily, the patient may experience dryness of the mouth, constipation, loss of appetite, nausea, dizziness, muscle weakness, disorientation, tiredness, or a fine tremor of the fingers, but also paradoxical reactions, e.g., restlessness and irritability. After prolonged use of benzodiazepines, impairment of consciousness combined with respiratory disorders has been reported in very rare cases, particularly in elderly patients; it sometimes persisted for some length of time. Under experimental conditions, impairment of alertness has been observed to be less pronounced after therapeutic doses of clobazam than after other benzodiazepines. Nevertheless, even when used as directed, the drug may alter reactivity to such an extent as to impair driving performance or the ability to operate machinery, especially when it is taken in conjunction with alcohol. As with other drugs of this type (benzodiazepines), the therapeutic benefit must be balanced against the risk of habituation and dependence during prolonged use. Isolated cases of skin reactions such as rashes or urticaria have been observed. **SYMPTOMS AND TREATMENT OF OVERDOSAGE** Symptoms: The cardinal manifestations are drowsiness, confusion, reduced reflexes, increasing sedation, and coma. Effects on respiration, pulse and blood pressure are noticed with large overdoses. Patients exhibit some jitteriness and overstimulation usually when the effects of the drug begin to wear off. **Treatment:** Immediate gastric lavage may be beneficial if performed soon after ingestion of Frisium (clobazam). Given the route of excretion, [See 'ACTIONS' Section] forced diuresis by short acting 'loop' diuretic may be useful some hours post-ingestion. If respiratory depression and/or coma are observed, the presence of other central nervous system depressants should be suspected. Respirations, pulse and blood pressure should be monitored. General supportive measures aimed at maintaining cardiopulmonary function should be instituted and administration of intravenous fluids started. Hypotension and central nervous system depression are managed by the usual means. **DOSAGE AND ADMINISTRATION** As with other benzodiazepines, the possibility of a decrease in anticonvulsant efficacy in the course of treatment must be borne in mind. In patients with impaired liver and kidney function, Frisium (clobazam) should be used in reduced dosage. **Adults:** Small doses, 5-15 mg/day, should be used initially, gradually increasing to a maximum daily dose of 80 mg as necessary. **Children:** In infants (<2 years), the initial daily dose is 0.5-1 mg/kg/day. The initial dose in children (2-16 years) should be 5 mg/day, which may be increased at 5-day intervals to a maximum of 40 mg/day. As with all benzodiazepines, abrupt withdrawal may precipitate seizures. It is therefore recommended that Frisium be gradually reduced in dose before treatment is discontinued. **Administration:** If the daily dose is divided, the higher portion should be taken at night. Daily doses up to 30 mg may be taken as a single dose at night. **DOSAGE FORM Composition:** Frisium (clobazam) tablets, 10 mg contain clobazam as active ingredient; Lactose, USP; Starch (Corn), NF; Talc, USP; Colloidal Silicon Dioxide, NF; and Magnesium Stearate, NF. **Storage Conditions:** Frisium tablets should be stored in their original containers at room temperature, below 25°C. **Availability:** Frisium is available as white, uncoated, bevelled, round tablets of 7 mm diameter, marked with 'BGL' above and below the scorebreak on the obverse and the Hoechst 'Tower and Bridge' logo on the reverse. Frisium 10 mg tablets are packaged in blisters of PVC film and aluminium foil and are distributed in packs of 30 [3x10] tablets.

Product Monograph available on request.

## References:

1. Clobazam in the Treatment of Refractory Epilepsy - The Canadian Experience: The Canadian Clobazam Cooperative Group. In press *Epilepsia*, 1991. Data on file Hoechst Canada Inc.
2. Shorvon, S.D.: Benzodiazepines - clobazam. *Antiepileptic Drugs*, 3rd ed., 1989.

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**NEW**  
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# Frisium<sup>®</sup> 10 mg

(clobazam)

ANTICONVULSANT FOR ADJUNCTIVE THERAPY

## EFFICACY

- **Frisium** is efficacious in all seizure types in both pediatric and adult patients.<sup>1</sup>
- **Frisium** achieves complete control in up to 30% of refractory patients depending on seizure type.<sup>1</sup>

## SAFETY

- Adverse events are generally mild and transient.<sup>2</sup>
- Clinically significant drug interactions are uncommon.
- Impairment of alertness is less pronounced with **Frisium** than with other benzodiazepines.\*

## DOSAGE

- Daily doses up to 30 mg may be taken as a single dose at bedtime.

IN EPILEPSY

*add* **Frisium<sup>®</sup> 10 mg**  
(clobazam)

TO ACHIEVE SEIZURE CONTROL

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\* Please consult  
precautions statement  
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