## Approval Package for:

Application Number74912Trade NameSelegiline Hydrochloride Tablets USP 5mgGeneric NameSelegiline Hydrochloride Tablets USP 5mgSponsorStason Industrial Corporation

## APPLICATION 74912

# CONTENTS

	Included	Pending	Not	Not
		Completion	Prepared	Required
Approval Letter	X		_	
<b>Tenative Approval Letter</b>			•	
Approvable Letter				
Final Printed Labeling	X			
Medical Review(s)				
Chemistry Review(s)	Χ			
EA/FONSI				
Pharmacology Review(s)				
Statistical Review(s)	-			
Microbiology Review(s)				
Clinical Pharmacology				
<b>Biopharmaceutics Review(s)</b>				
<b>Bioequivalence Review(s)</b>	X			
Administrative Document(s)	X			
Correspondence	X			

Application Number 74912

# **APPROVAL LETTER**

### ANDA 74-912

APR 30 1998

Stason Industrial Corporation Attention: Monica M. Tonio 11 Morgan Irvine, CA 92618

Dear Madam:

This is in reference to your abbreviated new drug application dated May 31, 1996, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for Selegiline Hydrochloride Tablets USP, 5 mg.

Reference is also made to your amendments dated March 10, May 12, July 22, August 1, December 8, 1997, February 25, and April 22, 1998.

We have completed the review of this abbreviated application and have concluded that the drug is safe and effective for use as recommended in the submitted labeling. Accordingly, the application is approved. The Division of Bioequivalence has determined your Selegiline Hydrochloride Tablets USP, 5 mg to be bioequivalent and, therefore, therapeutically equivalent to the listed drug product upon which the Agency relied as the basis of safety and effectiveness. Your dissolution testing should be incorporated into the stability and quality control program using the same method proposed in your application.

Under 21 CFR 314.70, certain changes in the conditions described in this abbreviated application require an approved supplemental application before the change may be made.

Post-marketing reporting requirements for this abbreviated application are set forth in 21 CFR 314.80-81 and 314.98. The Office of Generic Drugs should be advised of any change in the marketing status of this drug.

We request that you submit, in duplicate, any proposed advertising or promotional copy which you intend to use in your initial advertising or promotional campaigns. Please submit all proposed materials in draft or mock-up form, not final print. Submit both copies together with a copy of the proposed or final printed labeling to the Division of Drug Marketing, Advertising, Page 2

and Communications (HFD-240). Please do not use Form FD-2253 (Transmittal of Advertisements and Promotional Labeling for Drugs for Human Use) for this initial submission.

We call your attention to 21 CFR 314.81(b)(3) which requires that materials for any subsequent advertising or promotional campaign be submitted to our Division of Drug Marketing, Advertising, and Communications (HFD-240) with a completed Form FD-2253 at the time of their initial use.

Sincerely yours,

Douglas L. Sporn Director Office of Generic Drugs Center for Drug Evaluation and Research

## APPLICATION NUMBER 74912

# FINAL PRINTED LABELING







2







Exp. Date:

,

## DESCRIPTION: Seegline Hydrochloride is a levorotatory acetylenic derivative of phylitiblianing and mmpby released to in the chinical and pharmacological literature as 1-deprend.

The chemical name is: (R)- $(\cdot)$ -N2-Dimetry/-N2-propynytohenethytamine hydrochloride. It is a white to r white crystalline powder, thely soluble in water, chloroform, and methanol, and has a molecular weigh 223.75. The structural formula is as follows:



Each tablet for oral administration contains 5 mg selegiline hydrochloride. Inactive ingredients are lactose monohydrate, microcrystalline cellulose, and steanc acid.

monohydrate, microcrystalline cellulose, and stearc add.
 CLINICAL PHARMACOLOGY:
 The mechanisms accounting for selegine's beneficial adjunctive action in the treatment of Parkinson's disease are not fully understood inhibition of monamme oxdase, type B, activity is generally considered to be of primary importance, in addition, there is exoence that selegine may act through other mechanisms accounting the membrane of mitochondria. Selegine inhibits MAO by acting as a suiccle susceed to the of primary importance, in addition, there is exoence that selegine inhibits MAO by acting as a suiccle susceed to the one and the monety which combines meetware of with the outer merbane of mitochondria. Selegine inhibits MAO by acting as a suiccle susceed to the enzyme, that is, it is converted by MAO to an active monety which combines meversoly with the active seles, it can serve as a selective inhibitor of MAO by be B if it is administered at the recommended dose.
 MAOs are widely distributed throughout the body, their concentration is especially high in liver, kidney. Stomach, mitstinal vall, and brain, MAOs are as a selective inhibitor of the otypes, A and B, which differ in their substrate specificity as B important role in the catabolism of catecholamines (dogamine norepinephrme found will criteritory and during through on the G it tack and liver (primarity type A). The sample, is flought and these metal on a cate monits of certan exogenous animes found in the G it tack and liver (primarity to exogenous animes found will criteriton in the work of theses reaction (if targe amounts of certan exogenous animes should be to targe metal addition - exogenous animes (addition - exogenous animes (addition - exogenous animes (addition - exogenous animes (addition - exogenous animes found wiscles. Subsequent release of the desplaced noreoinemprime from some sites within membrane bound vesicles. Subsequent release of with selegine a dose of 10 mg a da: should head to be addition one

PRECAUTIONS:) This important to be aware that selegitine may have pharmacological effects unrelated to MAO B inhibition. As noted above: there is some evidence that it may increase dopaminergic activity by other mechanisms, including interlening with dopamine re-uptake at the synapse. Effects resulting from selegitine administration may also be mediated through its metabolites. Two of its three principal metabolites, amphetamine and methamphetamine, have pharmacological actions of their own; they interfere with neuronal uptake and enhance release of several neurotransmitters (e.g., norepinephine, dopamine, serotonin). However, the extent to which these metabolites contribute to the effects of selegitine are unknown.

Contrained release on servicial neuron ensimilations (e.g., information prome, opparing, servicing). However, the extent to which these metabolides contribute to the effects of selegitine are unknown.
Rationate for the Use of Selective Menonamine Datidase Type B Inhibitor in Parkinson's Disease:
Many of the prominent symptoms of Parkinson's disease are due to a deficiency of stratal dopamine that is the consequence of a proof service degeneration and loss of a population of dopamineor, cneurons which me substantia narga of the indibation and project to the basal ganglia or stratum. Early in the course of Parkinson's disease, the deficit in the capacity of these neurons to synthesize dopamine can be overcome by administration of exogenous levodopa, usually given in combination with a peripheral decarboxylase inhibitor (carbidopa).
With the passage of time, due to the progression of the disease and/or the effect of sustaned treatment, the efficacy and quality of the therapeutic response to evodopa diminishes. Thus, after several years of levodopa interations (in the response, lor a given dose of levodopa is shorter, has less predictable onset and offset (i.e., there is 'vesning off), and is often accompanied by side effects (e.g., dyskinesia akinesias, on-ordin population of intact nigrostratal neurons to synthesize and release theouse amounts of coparine.
MAO B inhibition may be useful in this setting because, by blocking the catabolism of doparime, it would increase the neit amount of doparime an adate (i.e., it would increase the pool of doparimer). Whether or not this setting because, by blocking the catabolism of oparime.
MAO B inhibition were abandoned because and out the observed beneficial effects of adjunctive effects of the shore effect of the inhibition of the inhibition of the genergical effects of adjunctintere

selective MAU inhibitors were abandoned because of multiple side effects including hypertension. Increase in involuntary movement, and toxic delinitum.
Pharmacokinetic Information (Absorption, Distribution, Metabolism and Elimination—ADME):
The absolute bioavailability of selegiline following oral dosing is not known: nowever, selegiline undergoes extensive metabolism (presumably attributable to presystemic clearance in our and over. The major pasme task the Riggsmethysislegiline, Liamphetamme and Limetamphetamme. The major pasme task MAO-B inhibiting activity. The pask plasma leves of these metabolism solicower, and cose of thom 4 to almost 20 times grader than that of the maximum plasma concentration of seegheine normal dosing is not thower, are largest effective solicower, and cose of thom 4 to almost 20 times grader than that of the maximum plasma concentration of seegheine in organic. The major plasma does of the dose solices and that botal and toxing a single dose. Metabolite concentrations increase to a lesser extend averaging 2 tool that beam after a single dose. Metabolite considerations increase to a lesser extent averaging 2 tool that beam after a single dose. Metabolite considerations and plasma concentrations increase to a lesser extent averaging 2 tool that beam after a single dose. Metabolite concentrations increase to a lesser extent of systemic exposure to selegiline at a quern dose varies consideration. among individuals Estimates to a systemic clearance of selegiline at a quern dose varies consideration. The extent of MAO-B is intrivied of the selegiline is increased to a guern observer is not souther the extent of MAO-B is intrivied book for the simulation half-life of selegiline is not worked. The task plasma levels for the same reason, if is not possible to predict the rate of recovery of MAO-B activity as a function of dox one order syntheses shower intromation half-life of development externed bolt metabolition applicate MAO-B activity, returns to the normal range within 5 to 7 days of s

Special Populations:

Renal Impairment: No pharmacokinetic information is available on selegiline or its

No pranacosmetic information is available of seegmine or its metabolites in renally impaired subjects.

metabolites in hepatically impaired subjects. Age: Although a general conclusion about the effects of age on the pharmacokinetics of selegiline is not warranted because of the size

of the sample evaluated (12 subjects greater than 50 years of age, 12 subjects between the ages of 18 to 30), systemic exposure was about twice as great in older as compared to a younger population given a single oral dose of 10mg, Gender:

No information is available on the effects of gender on the pharmacokinetics of selegiline.

NDICATIONS AND USAGE: Selegime hydrochlonide Tablets are indicated as an adjunct in the management of Parkinsonian patie being treated with levodopa/carbidopa who exhibit deterioration in the quality of their response to t therapy. There is no evidence from controlled studies that selegime has any beneficial effect in the abse of concurrent levodopa therapy.

therapy. There is no evidence from controlled studies that selegime has any determine creater that compared of concurrent levologa herapy. Evidence supporting this claim was obtained in randomized controlled clinical investigations that compared is effects of added selegitine or placebo in platients receiving levologa/carbidopa. Selegitine was significantly superior to placebo on all three principal outcome measures employed: change from baseline in daily levologa/carbidopa does, the amount of 'of' time, and platient self-rating of treatment success end of does advecting thereo are on other measures of treatment success (e.g., measures of reduced end of does advecting thereory and solorites, imported speech and dressing ability and improved overall disability as assessed by walking and comparison to previous state).

CONTRAINDICATIONS: Selegime Hydrochloride is contraindicated in patients with a known hypersensitivity to this drug. Selegime Hydrochloride is contraindicated for use with meperidine. This contraindication is often extended to other opioids. (See PRECAUTIONS: Drug Interactions.)

Userer Optices, (see PrecAul HURS: Ung Interactions.) WARNINGS: Selegitine should not be used at daily doese acceeding these recommended (10 mg/day) because of the risks associated with non-selective inhibition of MAO. (See CLINICAL PHARMACOLOGY.) The selectivity of selegitine for MAO B may not be absolute even at the recommended daily does of 10 mg a day. Rare cases of hyperinseive reactions associated with ingestion of byramine-containing foods have been reported in patients liking the 'Recommended daily does of selegitine becomes a non-selective inhibitor of all MAO is unknown, but may be in the range of 30 to 40 mg a day. Severe CNS toxicity associated with hyperynyexia and death have been reported with the combination of tricycic antidepressants and non-selective MAOIs (phenetzine, transpropriomie). A similar reaction has been reported for patient on antitypy and selegitine hydrochoide. Another patient receiving portingiving and selegitine developed tremors, agitation, and resitessness followed by unresponses and dath how weeks setures, changes in behavioral and mental status, and muscular rigidity have also been reported in some patients receiving selegitine and varous tricycic antidepressants. Senous sometimes faal, reactions with signs and symptoms that may include hyperthermila, rigidity include extreme agitation progressing to defirium and coma have been reported with abenets reported in some patients on the combination of selegitine hydrochoide. Another signs have been reported in some patients on the combination of selegitine aprovedine. Senous sometimes faal, reactions with signs and symptoms that may include hyperthermina, rigidity include extreme agitation progressing to defirium and coma have been reported with patients changes that include extreme agitation on selective models. Similar signs have been reported in some patients on the combination of selegitine hydrochoide. Another sugns have been reported in some patients on the combination of selegitine adi avoestic. Seno

PRECAUTIONS: General: Some patients given selegiline may experience an exacerbation of levodopa associated side effects. presumably due to the increased amounts of dopamine reaction with supersensitive, post-synaptic presumably due to the increased amounts of dopamine reaction with supersensitive, post-synaptic approximable 10 to 30%. The decision to prescribe selegiline should take into consideration that the MAQ system of enzymes is complex and incompletely understood and there is only a limited amount of carefully documented clinical experience with selegiline. Consequently the full spectrum of possible responses to selegiline may not have been observed in pre-marketing evaluation of the drug. It is advisable, therefore, to observe patients closely for atypical responses.

Information for Patients Patients should be advised of the possible need to reduce levodopa dosage after the initiation of selegiline

Patients should be advised of the possible need to reduce tevologia ussue after the limitation of subgravity hydrochoind therapy. Patients (or their families if the patient is incompetent) should be advised not to exceed the daily recommended dose of 10 mg. The risk of using higher daily doses of selegiline should be explained, and a brief description of the 'cheese reaction' provided. Rare hypertensive reactions with selegiline at recommended doses associated with detairy influences have been reported. Consequently, it may be useful to inform patients (or their families) about the signs and symptoms associated with MADI induced hypertensive reactions. In patients should be urged to report, immediately, any severe headache or other atypical or unusual symptoms not previously experienced.

Laboratory Tests: No specific laboratory tests are deemed essential for the management of patients on selegiline hydrochindie. Periodic routine evaluation of all patients, however, is appropriate.

240

Drug Interactions The occurrence of stupor. muscular rigidity, severe agitation, and elevated temperature has been reported in Some patients receiving the combination of selegiline and meperidine. Symptoms usually resolve over days when the combination is discontinued. This is typical of the interaction of meperidine and MADis. Other serious reactions (including severe agitation, haliucinations, and death) have been reported in patients receiving this combination of tricyclic antidepressants and selegiline and selective serotomic neglate inhibitors receiving the combination of tricyclic antidepressants and selegiline and selective serotomic neglate inhibitors and selegiline. (See WAATMENES for deals) One case of hypertensive crisis has been reported in a patient taking the recommended doses of selegiline and a sympathomimetic medication (ephedrine).

Carcinogenesis, Mutagenesis, Impairment of Fertility: Assessment of the carcinogene potential of selegiline in mice and rats is on-going. Seegline due not induce mutations or chromosomal damage when tested in the bacterial mutations assay in *Saimonella typhimuruum* and in an *in vivo* chromosomal aberration gasay. While these studies provide some reassurance that setegline is not mutagene or clastogenic. they are not definitive because of methodological immations. No definitive *in vitro* chromosomal aberration or *in vitro* mammalian gene mutation assays have been performed. The effect of setegline on tertility has not been adequalely assessed.

The effect of selegane on remaining has not been adequately assessed. Pregnancy: Terategenic Effects - Pregnancy Category C: No teratogenic effects were observed in a study of embryo-tetal development in Sprague-Dawley rats at oral social of 4.12, and 36 mg/kg or 4.12, 35 times the human therapeutic dose on a mg/mg basis. No teratogenic doses of 4.12, and 36 mg/kg or 4.12, 35 times the human therapeutic dose on a mg/mg basis. No teratogenic observed in a study of embryo-tetal development in New Zealand White radiotis at oral doses of 5. precision of the study of the teratogenic dose on a mg/mg basis. Noverel: in this study, the number of latters produced at the two higher doses was less than recommended for assessing teratogenic potential. In the rat study, there was a decrease in tetal body weight at the highest dose tested. In the ratogenic potential, in the rat study, there was a decrease in tetal body weight at the highest dose tested. In the ratogenic potential, in the rat study, there was a docrease in tetal body weight at the highest dose tested. In the ratogenic potential in the rate study, there was a docrease in tetal body weight at the highest dose tested. In the ratogenic potential in the rate study, there was a docrease in the number of potential development study, increases in total resorptions and % post-implantation loss, and a decrease in the number of pupp per dam, pup survita, and pup body weight (at birth and throughout the lacitation penod) were observed at the highest dose tested in a tarse could not be evaluated because of the lack of surviving pupper doses. At the highest dose tested in carse could not be evaluated because of the lack of surviving pupper todese. At the highest dose tested in tarse could not be evaluated because of the lack of surviving pupper todeses. At the highest dose tested in tarse tough ratio may assessed. There, are, an adequate and well-controlled studies in pregnant women. Selegitine should be used during pregnancy only if the potential benef

It's not known whether selegiline is excreted in human milk. Because many drugs are excreted in human milk, consideration should be given to oscont-nuing the use of all but absolutely essential drug treatments in nursing women.

## Pediatric Use: The effects of selegiline hydrochloride in pediatric patients have not been evaluated

### ADVERSE REACTIONS

The number of patients who received selegitine in prospectively monitored pre-marketing studies is limited. While other sources of information about

the use of selegitime are available (e.g., literature reports, foreign post-marketing reports, etc.) they do not provide the kind of information necessary to estimate the incidence of adverse events. Thus, overall incidence figures for adverse reactions associated with the use of selegitime cannot be provided. Many of the adverse reactions seen have also been reported as symptoms of digmanine excass. Moreover, the importance, and severity of various reactions reported often cannot be ascertained. One index of relative importance, and severity of various reactions reported often cannot be ascertained. One index of relative importance, however, is whether or not a reaction caused in relative importance, however, the index of the adverse reaction caused in the selecificen causes, halucinations, confusion, depression, loss of balance, inscomnai, orthostatic hypotension, increased akinetic involuntary movements, agitation, arrhythmia, pradytinesia, chorea, delusions, hypertension, new or increased angina pectors, and symmetry, to drowsiness/tedrary, dividencia, excess preprioration, increased freezing, gastromestional bleeding, hair loss, increased tremor, nervousness, weakness, and weight loss. Experience with selegitine hydrochoride obtained in parailer, placebo controlled, randomized studies provides only a limited basis for estimates of adverse reaction rates. The following reactions that occurred with greater frequency among the 49 paralets assigned to selegitine as compared to the 50 patients acssigned to placebo in the only parallel, placebo controlled, randomized studies shown in the lookwing Table. None of these adverse reactions rates of a patients with Parkinson's disease are shown in the lookwing Table. None of these adverse reactions discontinuation of treatment.

### INCIDENCE OF TREATMENT-EMERGENT ADVERSE EXPERIENCES IN

THE PLACEBO-CONTROLLED CLINICAL TRIAL				
Adverse Event	Number of Patients Reporting Events			
	selegiline hydrachlaride	placebo		
	N=49	N=50		
Nausea	10	3		
Dizziness/Lightheaded/Fainting	7	ĩ		
Abdominal Pain	Á.	2		
Confusion	3	ñ		
Hallucinations	ž	ĭ		
Dry mouth	ă	i		
Vivid Dreams	2	ń		
Dyskinesias	5	š		
Headache	2	1		
The following events were reported ence	t in either or both groups			
Ache, generalized	1	n		

Anxiety/Tension	1	ī
Anemía	á	i
Diarrhea	ĩ	ó
Hair Loss	ò	1 I
Insomnia	ĩ	÷
Lethargy	i	ó
Leg Paín	i	ň
Low back pain	i	ň
Malaise	ó	1
Palpitations	ĭ	<b>6</b>
Urinary Retention	i	ň
Weight Loss	i	ŏ

In all prospectively monitored clinical investigations, enrolling approximately 920 patients, the following adverse events, classified by body system, were reported.

Central Nervous System: Motor/Coordination/Extrapyramidal: increased tramor. chorea loss of balance, restlessness, blepharospasm, increased bradykinesia, facial grimace, talling down, heavy leg, muscle twitch', myoclonic jerks', stift neck, tardive dyskinesia, dystonic symptoms, dyskinesia, involuntary movements, treezing, testination, increased apraxia, muscle cramps.

Mental Status/Behavioral/Psychiatric: hallucinations, dizziness, confusion, anxiety, depression, drowsiness, behavior/mood change, dreams/ingituriares, tiredness, delusions, disorientation, lightheadedness, impaired memory\*, increased energy\*, transient high\*, hollow feeling, lethargy/malaise, apathy, overstimulation, vertigo, personality change, sleep disturbance, resiliesciess, waavness, transient irritabitity.

Pain/Altered Sensation: headache, back pam. leg pain, linnitus, migraine, supraorbital pain, throat burning, generalized ache, chills, numbness of toes/lingers, taste disturbance.

Autonomic Nervous System: dry mouth, blurred vision, sexual dysfunction

### Cardiovascular:

orthostatic hypotension, hypertension, arrhythmia, palpitations, new or increased angina pectoris, hypotension, tachycardia, peripheral edema, sinus bradycardia, syncope.

### Gastrointestinal

Gastrommestinai: nauseaivomiting, constipation, weight loss, anorexia, poor appetite, dysphagia, diarrhea, heartburn, rectal bleeding, bruxism\*, gastrointestinal bleeding (exacerbation of preexisting ulcer disease).

Genitourinary/Gynecologic/Endocrine: slow urination, transient anorgasmia\*, nocturia, prostatic hypertrophy, urinary hesitancy, urinary retention, decreased penitie sensation\*, urinary frequency.

Skin and Appendages: increased sweating, diaphoresis, facial hair, hair loss, hematoma, rash, photosensitivity.

Miscellaneous

## ma, diplopia, shortness of breath, speech affected.

Postmarketing Reports: The following experiences were described in spontaneous post-marketing reports. These reports do not provide sufficient information to establish a clear causal relationship with the use of selegitine hydrochlonide.

Seizure in dialyzed chronic renal failure patient on concornitant medications. \* indicates events reported only at doses greater than 10 mg/day.

### OVERDOSAGE:

OVENUUSABLE: Selegilina: No specific information is available about clinically significant overdoses with selegiline hydrachlonde. However, experience gained during selegiline's development reveals that some individuals exposed to dose of 600 mg d.1-selegiline suffered severe hypotension and psychemotor agitation. Since the selective inhibition of MAO B by selegiline hydrachlondie is achieved only at doses in the range recommended for the treatment of Parianson's disease (e.g., 10 mg/day), overdoses are likely to cause significant inhibition of both MAO A and MAO B. Consequentity, the signs and symptoms of overdose may resemble those observed with marketed non-selective MAO inhibitors (e.g., tranycopromise, socarboacad, and phenetone).

Dverdose with Non-selective MAO Inhibition: NOTE: This section is provided for reference; it does not describe events that have actually been observed with selegiline in overdose. Characteristically, signs and symptoms of non-selective MAOI overdose may not appear immediately. Delays of up to 12 hours between ingestion of drug and the appearance of signs may occur. Importantly, the peak intensity of the syndrome may not be reached for upwards of a day following the overdose. Death has been reported following overdosage. Therefore, immediate hospitalization, with continuous patient observation and monitoring for a period of at least two days following the ingestion of such drugs in overdose, is strongly recommended. The clinical picture of MAOI overdose varies considerably; its severity may be a function of the amount of drug consumed. The central nervous and cardiovascular systems are prominently involved. Signs and symptoms of overdosage may include, alone or in combination; any of the following; drowsiness.



SELEGILINE Tdrochloride Tablets, USP

dizziness, taintness, krittability, hyperactivity, agitation, severe headache, hallucinations, trismus, opsithiotnus, convulsions, and comar, rapid and inspular puse, hypertension, hypotension and vascular collegase, procential pain, respiratory depression and lakure, hyperprivac, disphoress, and cook, dammy Tre nent Successions For Overdese

### IOTE:

NOTE: Boccurse there is an excerted experience with satispilline eventose, the following suggestions are offered based mean the assumption that assigning eventions may be modeled by non-astective MADI poisoning. In any case, use to debi information about the transmest of overtides can offere de obtained from a control of the poission Control Co

pressore agent, it snoue be noted that automate specific and an anothing a specific and a support of the airway, use of Respiration should be supported by appropriate messures, including management of the airway, use of supplemental oxygen, and mechanical ventilatory assistance as required. Body temperature should be monitored closely. Intensive management of hyperpyrexia may be required. Maintenance of fluid and electrolyte balance is essential.

Disance for how and electrolyte dualance is essential. Disance and Disance and electrolyte dualance is essential. Disance and Disance an

### HOW SUPPLIED:

1003454

now sour LEV. Selegine hydrochloride tablets are available containing 5 mg of selegiline hydrochloride. Each white to off-white, round, unscored tablet is embossed with "1020" on one side and "STASON" on the other side.

They are available in bottles of 60 tablets (NDC 51285-020-60) and 1000 tablets (NDC 51285-020-05). Dispense in a tight, light-resistant container. Store at controlled room temperature, 15° to 30°C (59° to 86°F).

CAUTION-Federal (USA) law prohibits dispensing without prescription.

Manufactured for: Duramed Pharmaceuticals, Inc. Cincinnati, OH 45213 U.S.A.

by: Stason Pharmaceuticals, Inc. Irvine, CA 92618 U.S.A.





## APPLICATION NUMBER 74912

## **CHEMISTRY REVIEW(S)**

- 1. ADDENDUM TO CHEMISTRY REVIEW NO. 3
- 2. <u>ANDA #</u> 74-912
- 3. <u>NAME AND ADDRESS OF APPLICANT</u> Stason Industrial Corp. Attn: Min-Liang Pan, Ph.D. 11 Morgan Irvine, CA 92718
- 4. <u>BASIS OF SUBMISSION</u> The orphan drug exclusivity for selegiline hydrochloride tablets expired on June 5, 1996.
- 5. <u>SUPPLEMENT(s)</u> N/A
- 6. <u>PROPRIETARY NAME</u> N/A 7. <u>NONPROPRIETARY NAME</u> Selegiline Hydrochloride
- 8. <u>SUPPLEMENT PROVIDE FOR:</u> N/A

## 9. AMENDMENTS AND OTHER DATES:

May 31, 1996--August 6, 1996--August 21, 1996--September 13, 1996-January 30, 1997--March 5, 1997--March 10, 1997--July 7, 1997--July 22, 1997--July 31, 1997--July 31, 1997--July 31, 1997--Amendment April 22, 1998--Original Submission Anendment Acceptable for filing on 8/23/96 Chem deficiency letter Amendment Chem deficiency letter Amendment Telecom Amendment April 22, 1998--March 10, 1997--Amendment April 22, 1998--March 10, 1997--Amendment Chem deficiency letter Amendment Amendment Amendment April 22, 1998--March 10, 1997--Amendment April 22, 1998--March 10, 1997--March 10, 1997--Amendment April 22, 1998--March 10, 1997--March 10, 1997--Amendment Amendment April 22, 1998--March 10, 1997--March 10, 1997--March 10, 1997--Amendment Amendment Amendment April 22, 1998--March 10, 1997--March 10,

April 22, 1998-- Telecom Amendment

- 10.PHARMACOLOGICAL CATEGORY11.Rx or OTCAntiparkinson AgentRx
- 12. <u>RELATED Drug Master Files</u>

13. <u>DOSAGE FORM</u> Tablets

- CHEMICAL NAME AND STRUCTURE 15. (R)-(-)-N,2-dimethyl-N-2-propynylphenethylamine hydrochloride
- RECORDS AND REPORTS 16. N/A
- 17. <u>COMMENTS</u>
- 18. CONCLUSIONS AND RECOMMENDATIONS Recommend approval letter to issue.
- 19. **REVIEWER:** Edwin Ramos

April 8, 1998 April 27, 1998 (revised) 4/27/17

- 1. <u>CHEMISTRY REVIEW NO.</u> 3
- 2. <u>ANDA #</u> 74-912
- 3. <u>NAME AND ADDRESS OF APPLICANT</u> Stason Industrial Corp. Attn: Monica Tinio 11 Morgan Irvine, CA 92718
- 4. <u>BASIS OF SUBMISSION</u> The orphan drug exclusivity for selegiline hydrochloride tablets expired on June 5, 1996.
- 5. <u>SUPPLEMENT(s)</u> N/A
- 6. <u>PROPRIETARY NAME</u> N/A 7. <u>NONPROPRIETARY NAME</u> Selegiline Hydrochloride
- 8. <u>SUPPLEMENT PROVIDE FOR:</u> N/A
- 9. <u>AMENDMENTS AND OTHER DATES:</u> May 31, 1996-- Original Submission August 6, 1996-- Refuse to file letter August 21, 1996-- Amendment September 13, 1996- Acceptable for filing on 8/23/96 January 30, 1997-- Chem deficiency letter March 5, 1997-- Bio deficiency letter March 10, 1997-- Amendment May 12, 1997-- Amendment May 12, 1997-- Chem deficiency letter July 7, 1997-- Chem deficiency letter July 22, 1997-- Amendment July 31, 1997-- Telecom July 31, 1997-- Telecom Amendment
- 10.PHARMACOLOGICAL CATEGORY11.Rx or OTCAntiparkinson AgentRx

14.

POTENCY

5 mg

12. <u>RELATED Drug Master Files</u>

13. <u>DOSAGE FORM</u> Tablets

- 15. <u>CHEMICAL NAME AND STRUCTURE</u> (R)-(-)-N,2-dimethyl-N-2-propynylphenethylamine hydrochloride
- 16. <u>RECORDS AND REPORTS</u> N/A
- 17. <u>COMMENTS</u> None.
- 18. <u>CONCLUSIONS AND RECOMMENDATIONS</u> Recommend approval letter to issue.
- 19. <u>REVIEWER:</u> Edwin Ramos

<u>DATE COMPLETED:</u> April 8, 1998

4/13/18