



Section 12 Notice **Additional Information Required to Fulfill the Terms and Conditions for Conditional Registration**

Product Name: **METHOXYFENOZIDE TECHNICAL INSECTICIDE**
Registration Number: **27785**
Application Number: **2006-7624**
PMRA # : **1432708**

During the conditional registration period which has been granted to December 31, 2007, the following information is to be generated and must be provided to the Pest Management Regulatory Agency by **June 1, 2007**, and must indicate the DACO numbers specified. A partial response to the outlined Terms and Conditions will not be accepted.

PART 9 ENVIRONMENTAL TOXICOLOGY

DACO: 9.2.4.3
Title: Honey Bee Brood (Hive study)
 (Schmitzer, S. 1997. Rohm & Haas Report No. 98RC-1007).

Required DATA: **An additional study on the effects of methoxyfenozone to honey bee brood is required. A study is required at the appropriate field exposure concentrations, with adequate separation of hives to prevent intermixing of treatments.**

DACO: 9.2.5
Title: Predators

Required DATA: **Studies on the effects of methoxyfenozone to beneficial predators and parasites. These chronic studies (lab and semi-field) will examine the effects on juvenile stages of representative orchard species. Studies should be done where the rate reflects the use patterns sought, i.e., maximum label application rate, number of applications, etc. For example, for use on apples, the PMRA recommends the studies be conducted at 0.1x, 1x, and 2x the rate of two applications of 240 g a.i./ha with a 10-day interval between sprays, i.e., 48 g a.i./ha, 480 g a.i./ha, and 960 g a.i./ha. Recommended species include: predatory mite (*Typhlodromus pyri*), parasitic wasp, coccinellid mite predator (*Stethorus punctum*), and ground beetle (*Poecilus* sp.).**

DACO: 9.2.6
Title: Parasites

Required DATA: Studies on the effects of methoxyfenzoide to beneficial predators and parasites. These chronic studies (lab and semi-field) will examine the effects on juvenile stages of representative orchard species. Studies should be done where the rate reflects the use patterns sought, i.e., maximum label application rate, number of applications, etc. For example, for use on apples, the PMRA recommends the studies be conducted at 0.1x, 1x, and 2x the rate of two applications of 240 g a.i./ha with a 10-day interval between sprays, i.e., 48 g a.i./ha, 480 g a.i./ha, and 960 g a.i./ha. Recommended species include: predatory mite (*Typhlodromus pyri*), parasitic wasp, coccinellid mite predator (*Stethorus punctum*), and ground beetle (*Poecilus* sp.).

DACO: 9.2.7
Title: Other Terrestrial Invertebrates - Terrestrial collembola

Required DATA: Studies on the effects of methoxyfenzoide to terrestrial collembola. This chronic study will examine the effects on juvenile stages of collembola in the orchard environment.

DACO: 9.2.7
Title: Other Terrestrial Invertebrates - Butterfly emergence and growth

Required DATA: A butterfly emergence and growth study is required. This study studies will determine the effects methoxyfenozide on nontarget lepidopterans.

DACO: 9.3.4
Title: Laboratory Studies with Other Species - Sediment toxicity test using *Hexagenia*.

Required DATA: A sediment toxicity study using *Hexagenia* is required. This study will provide information on the effects of methoxyfenozide on a second benthic species.

DACO: 9.3.4
Title: Laboratory Studies with Other Species - Bioconcentration/Depuration (Bivalve)

Required DATA: A marine bivalve bioconcentration study is required. This study will examine the mechanism of bioaccumulation of methoxyfenozide in filter-feeding benthic organisms.

DACO: 9.3.4
Title: Laboratory Studies with Other Species - Frog embryo teratogenesis study

Required DATA: **A frog embryo teratogenesis assay - *Xenopus* (FETAX) study is required. This study will determine if exposure to methoxyfenozide results in developmental effects in amphibians.**

DACO: 9.3.4
Title: Laboratory Studies with Other Species - Crayfish developmental study

Required DATA: **A crayfish developmental study is required. This study will determine if methoxyfenozide results in developmental effects in crayfish.**

DACO: 9.6.3.1
Title: Avian Reproduction Bobwhite Quail
(Bennett, R.S. 1998. Laboratory Report No. 96RC-0041)

Required DATA: **An additional study of avian reproduction with bobwhite quail is required. This study will determine the effects methoxyfenozide on bobwhite quail reproduction.**