

## **ONTARIO, NOVA SCOTIA, MANITOBA AND ALBERTA DRY BULB ONION GROWERS Receive Urgently Needed Emergency Use Registrations for THRIPS**

**J. Chaput, OMAFRA, Minor Use Coordinator, Guelph**

The Pest Management Regulatory Agency (PMRA) recently announced the approval of an emergency use registration for **CARZOL SP Miticide-Insecticide (formetanate hydrochloride)** for control of **onion thrips on dry bulb onions** in Nova Scotia, Ontario, Manitoba and Alberta. Carzol SP Miticide-Insecticide was already labeled in Canada for control of mites and leafhoppers on apples, pears, peaches and nectarines. Furthermore a complete minor use submission will be prepared to seek eventual, full registration of CARZOL for thrips control on dry bulb onions in Canada.

Onion thrips, *Thrips tabaci* (Lindeman) are a pest of onions around the world. In Canada, it is considered a key pest wherever onions are grown and the number one pest of onions in most provinces. Various life stages of onion thrips actively feed on onion leaves, reducing photosynthesis, reducing plant vigor and yield, and vector and transmit Iris Yellow Spot Virus (IYSV).

In the US, onion thrips were ranked as the number one pest requiring urgent attention due to lack of effective solutions at the 2005 US IR-4 Food Use workshop. Rapid resistance development to all available, registered materials has become widespread in North America and around the world. Carzol SP Miticide-Insecticide was identified as a viable solution to help manage onion thrips. There have been no new products registered in Canada for onion thrips management in several years and control failures continue to increase.

The emergency use registration of Carzol SP will help in the interim to manage resistant thrips populations; however management of onion thrips will require a comprehensive IPM and resistance management program with access to all available tools and strategies. The following is provided as general information only. Users should consult the complete label before using Carzol SP.

**CARZOL SP Miticide-Insecticide can be used for control of onion thrips in dry bulb onions in Ontario, Nova Scotia, Manitoba and Alberta until October 31<sup>st</sup>, 2008 only. Carzol SP can be applied once at a rate of 1.4 kg product per hectare or Carzol can be applied twice at a rate of 0.84 kg product per hectare at a 7 – 10 day interval. Do not exceed 1.68 kg per hectare per year. A minimum spray volume of 94 L water per hectare is recommended and a 30 day pre-harvest interval is permitted.**

**Follow all other directions for use on the CARZOL SP Miticide-Insecticide label carefully.**

**CARZOL SP Miticide-Insecticide should be used in an IPM program and in rotation with other management strategies to adequately manage resistance.**

We wish to thank Dr. Jennifer Allen for preparing the rationale documents on behalf of Ontario Nova Scotia, Manitoba and Alberta dry bulb onion growers as well as the personnel of Manitoba Agriculture, Alberta Agriculture and Nova Scotia Agriculture for their input, support and assistance. We also wish to thank the personnel of the Ontario Ministry of the Environment, Alberta Environment, Manitoba Conservation, Nova Scotia Environment and **Gowan Company** for their support of this registration and the personnel of the Pest Management Regulatory Agency for evaluating and approving this important pest management tool. Special thanks are expressed to Kroeker Farms Limited of Winkler, Manitoba who generously covered the submission fee for this emergency use registration.

For copies of the emergency use label contact Kristy Grigg, OMAFRA Vegetable Crops specialist at Guelph (519) 826-4963, Jim Chaput, OMAFRA, Guelph (519) 826-3539 or visit UAP Canada Inc. website at [www.uap.ca](http://www.uap.ca) or N. M. Bartlett's website at <http://www.bartlett.ca/bartlett/default.htm>