

## **CEREAL CROPS, GRASSES OR LEGUMES GROWN FOR HAY - GRASSHOPPER**

### General Information

**DIRECTIONS:** Malathion 500 Emulsifiable Concentrate Insecticide is a general purpose insecticide, which can be used on vegetables, field crops, livestock and in farm buildings. The product works best when used at temperatures above 20°C. On any crop, use sufficient water to obtain good coverage of all the foliage. Consult the local Agriculture Extension Services for timing of sprays to obtain the best results.

The number in brackets after each crop is the pre harvest spray interval. For example, Wheat (7). Do not harvest wheat within 7 days of spraying.

Use Precautions for Aerial Application (to cereal crops, canola (rapeseed), lentils, sweet clover, alfalfa and flax only): Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of the label. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on the label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices. Do not use human flaggers.

Use Precautions: Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module, developed by CAPCO. Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. Do not apply during periods of dead calm or when wind velocity and

direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

**RESISTANCE MANAGEMENT:** For resistance management, please note that Malathion 500 Emulsifiable Concentrate Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Malathion 500 Emulsifiable Concentrate Insecticide and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance: Where possible, rotate the use of Malathion 500 Emulsifiable Concentrate Insecticide or other Group 1B insecticides with different groups that control the same pests in a field. Use tank mixtures with insecticides from a different group when such use is permitted. Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices. Monitor treated pest populations for resistance development. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. For further information or to report suspected resistance contact Interprovincial Cooperatives Ltd. at (204) 233-3461.

Limitations, Restrictions, and Exceptions

## DIRECTIONS

Ground or aerial application. Apply for thorough coverage.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Pre-Harvest Interval

7 days

Rates

[field\\_rates 0](#)

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Timings

[When larvae reach 2-3 per stem.](#)