



# Vegetable Crop Update

A newsletter for commercial potato and vegetable growers prepared by the University of Wisconsin-Madison vegetable research and extension specialists

## Disease Supplement #7 – August 9, 2013

Vegetable Disease Update – Amanda J. Gevens, Assistant Professor & Extension Vegetable Plant Pathologist, UW-Madison, Dept. of Plant Pathology, 608-890-3072 (office), Email: [gevens@wisc.edu](mailto:gevens@wisc.edu). Vegetable Path Webpage: <http://www.plantpath.wisc.edu/wivegdis/>

This supplement provides some clarification of fungicide label allowances for disease management in conventional potato systems.

There have been some questions on which **chlorothalonil** formulations have Special Local Needs use extensions for long season potatoes grown in Wisconsin. The table below summarizes the formulations and their allowable use rates.

<u>Fungicide Trade Name</u>	<u>Active Ingredients</u>	<u>Fungicide Groups</u>	<u>Manufacturer</u>	<u>Maximum Allowable Use</u>
<b><u>Bravo Ultrex</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Syngenta</u>	<u>16.0 lb a.i./acre/year</u> <i>has WI Special Local Needs label expires 2017</i>
<b><u>Bravo Weather Stik</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Syngenta</u>	<u>16.0 lb a.i./acre/year</u> <i>has WI Special Local Needs label expires 2017</i>
<b><u>Bravo Zn</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Syngenta</u>	<u>16.0 lb a.i./acre/year</u> <i>has WI Special Local Needs label expires 2017</i>
<b><u>Chloronil 720</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Syngenta</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Chlorothalonil 720 SC</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Arysta LifeScience</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Echo 720</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>SipcamAdvan</u>	<u>16.0 lb a.i./acre/year</u> <i>has WI Special Local Needs label expires 2014</i>
<b><u>Echo 90DF</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>SipcamAdvan</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Echo Zn</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>SipcamAdvan</u>	<u>16.0 lb a.i./acre/year</u> <i>has WI Special Local Needs label expires 2014</i>
<b><u>Equus 500 Zn</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>MANA</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Equus 720SST</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>MANA</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Equus DF</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>MANA</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Initiate 720</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Loveland</u>	<u>11.25 lb a.i./acre/year</u>
<b><u>Initiate Zn</u></b>	<u>chlorothalonil</u>	<u>M5</u>	<u>Loveland</u>	<u>11.25 lb a.i./acre/year</u>

**Mefenoxam and metalaxyl** fungicide formulations can effectively control sensitive strains of ‘water mold’ pathogens causing pink rot, late blight (US-23, US-22), and tuber rots. The table below provides some clarity on allowable uses.

<u>Fungicide Trade Name</u>	<u>Active Ingredients</u>	<u>Fungicide Groups</u>	<u>Manufacturer</u>	<u>Allowable Use</u>
<b><u>Ridomil Gold Bravo SC</u></b>	<u>chlorothalonil + mefenoxam</u>	<u>M5+4</u>	<u>Syngenta</u>	<u>Can be applied to foliage to row touch at 2.5 pt/acre. Pre-harvest interval (PHI) is 14 days.</u>
<b><u>Ridomil Gold MZ WG</u></b>	<u>mancozeb + mefenoxam</u>	<u>M3+4</u>	<u>Syngenta</u>	<u>Can be applied to foliage at up to 2.5 lb/acre. For late blight, up to 4 applications can be made, beginning preventatively. Subsequent applications should be separated by 14 days for control. Applications should end when rows touch. 3 applications can be made for storage rot control, separated by 14 day intervals. PHI is 3 days in WI.</u>
<b><u>Ridomil Gold SL</u></b>	<u>mefenoxam</u>	<u>4</u>	<u>Syngenta</u>	<u>In-furrow application only with Ridomil Gold SL. Label states, “you may need to follow this in-furrow application with a Ridomil pre-pack foliar application at tuber initiation” for storage rots.</u>
<b><u>Ridomil Gold/Copper</u></b>	<u>copper hydroxide + mefenoxam</u>	<u>M1+4</u>	<u>Syngenta</u>	<u>Can be applied to foliage to row touch for storage rots and late blight. For late blight control, tank mix 1 pack of Ridomil Gold Copper (5 lb. product)/2.5 acres plus base protectant such as mancozeb or chlorothalonil. Begin program before infection. Apply no later than when plant foliage meets in row. Can make up to 3 applications separated by 14 days. PHI is 14 days.</u>
<b><u>Ultra Flourish</u></b>	<u>mefenoxam</u>	<u>4</u>	<u>Syngenta</u>	<u>Can be applied to foliage at flowering at 6.4 fl oz/acre. And, can be applied 2 additional times as needed, separated by 14 days for control of storage rots. Tank-mix with base protectant such as chlorothalonil or mancozeb. PHI is 14 days.</u>
<b><u>MetaStar 2E</u></b>	<u>metalaxyl</u>	<u>4</u>	<u>LG International</u>	<u>Can be applied to foliage at flowering at 12.8 fl oz/acre. And, can be applied 2 additional times as needed, separated by 14 days for control of storage rots. Tank-mix with base protectant such as chlorothalonil or mancozeb. PHI is 14 days.</u>