



Over 70 percent of Canada's canola crop is exported around the world and its reputation as a safe and high quality product is well-deserved and well-known. From the farmer to the retail store, everyone in the supply chain has a role to play.

Export markets are becoming very strict about the products they accept. Requirements in some countries affect the canola varieties that Canada can export and the pesticides that can be used on canola. Testing in some countries is being increased for these de-registered varieties and pesticides.

If de-registered or unacceptable varieties or pesticides are detected, canola shipments could be turned away causing millions of dollars in losses and placing future business at risk.

Protect the future of the Canadian canola industry.

Do not grow the canola varieties on this list.

- *HySyn 101 Roundup Ready*
- *295BX, Cartier BX, Zodiac BX, Renegade BX*
- *Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, 3850, 2153, 3640*

Do not use the pesticides listed below for canola production

- *Seed treatments containing lindane insecticide*
- *Malathion insecticide*
- *Amitrol herbicide*
- *Always use other pesticides at the correct rate, timing and pre-harvest interval*

Follow the canola storage recommendations

Ensure all bins used to store canola are free of treated seed and animal protein.

For more information on why these varieties and pesticides have been de-registered or are not acceptable, check below or visit www.canola-council.org . For questions, please contact your local Canola Council agronomist or call the head office toll-free 1- 866-834-4378.



Variety: <u>HySyn 101 RR</u>	
Description & History	This is a Roundup Ready herbicide tolerant Polish (<i>B. rapa</i>) variety that was sold on a limited basis and for a limited period of time in 1998 and 1999 by Zeneca seeds under an identity-preserved contract with commercial grain companies. Zeneca Seeds stopped selling this variety in 1999 and it was later deregistered in 2003.
Market Issues	Japan: Hysyn 101RR is not approved. Japan is the number one customer of Canadian canola seed, with imports valued at over \$450 million each year. This variety is not approved in Japan as it was not intended for widespread commercial release. A few growers were found growing this variety in 2005 and since that time the Japanese government has announced that it will be developing a method to test for this variety in canola shipments. Detection of this variety will result in shipments being rejected, which could cause millions of dollars of lost business and jeopardize Canada's international reputation.
Recommendation to Growers	Do not seed Hysyn 101RR or seed produced from Hysyn101RR. Do not deliver any seed produced from this variety to any elevator or crushing facility. For treated seed: Contact provincial authorities or municipal landfill for disposal.



<p>Varieties: <u>295BX, Cartier BX, Zodiac BX, Renegade BX</u></p>	
<p>Description & History</p>	<p>These are bromoxynil (Navigator/Compass) herbicide tolerant Argentine (<i>B. napus</i>) varieties that were sold by Rhone Poulenc on a limited basis in 1998 and 1999. The varieties were not sold after 1999 and were de-registered in 2004.</p>
<p>Market Issues</p>	<p>South Korea: 295BX, Cartier BX, Zodiac BX, Renegade BX are not approved. South Korea is a canola oil customer and buys on average over \$1 million of Canadian canola oil per year. These varieties were never approved in Korea because commercial seed is no longer being sold.</p> <p>Europe: 295BX, Cartier BX, Zodiac BX, Renegade BX are not approved. Within the next year, the canola industry expects that European Commission will complete the approvals for Canadian canola, allowing imports of canola. This is important to our industry as Europe is now sourcing canola for their expanding biodiesel industry. These varieties will not be approved because commercial seed is no longer being sold.</p>
<p>Recommendation to Growers</p>	<p>Do not seed 295BX, Cartier BX, Zodiac BX, Renegade BX or any seed produced from these varieties. Do not deliver any seed produced from this variety to any elevator of crushing plant in Canada. For treated seed: Contact provincial authorities or municipal landfill for disposal.</p>



<p><i>Varieties:</i></p> <p><u>Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, 3850, 2153, 3640</u></p>	
<p>Description & History</p>	<p>These are Liberty Link herbicide tolerant Argentine (<i>B. napus</i>) varieties that are no longer commercially sold in Canada. All varieties have been de-registered, except for 2393LL which will be de-registered soon.</p>
<p>Market Issues</p>	<p>Europe: Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, 3850, 2153, 3640 are not approved.</p> <p>Within the next year, the canola industry expects that the European Commission will complete the approvals for Canadian canola allowing imports of canola. This is important to our industry as Europe is now sourcing canola for their expanding biodiesel industry. Approval of these varieties will be delayed and could block our access to the EU when the other varieties are approved.</p>
<p>Recommendation to Growers</p>	<p>Do not seed Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, 3850, 2153, 3640</p> <p>Do not deliver any seed produced from these varieties to any elevator or crushing plant in Canada.</p> <p>For treated seed: Contact provincial authorities or municipal landfill for disposal.</p>



Insecticide: <u>Seed treatments containing lindane insecticide</u>	
Description & History	<p>Lindane is an insecticide that was used in various seed treatments with the brand names Cloak, Vitavax RS, Foundation, Premiere, IPC Benolin-R Insecticide-fungicide Dust.</p> <p>Lindane is no longer registered for canola in Canada</p>
Market Issues	<p>United States: lindane is not approved for canola and no tolerance has been set.</p> <p>The US is the number one oil and meal market for Canadian canola worth over \$600 million per year. Lindane for canola was voluntarily removed by the manufacturers because it is not approved in the U.S. and could become a trade irritant.</p>
Recommendation to Growers	<p>Do not treat or plant seed with lindane seed treatments.</p> <p>Do not deliver any canola produced from seed treated with lindane to any elevator or crushing plant.</p> <p>For treated seed: Contact provincial authorities or municipal landfill for disposal.</p>
Alternative Products	<p>Helix, Helix Extra, Prosper and Gaucho seed treatments are available for flea beetle control in canola.</p>



Insecticide: <u>Malathion</u>	
Description & History	Malathion is an insecticide registered in Canada for foliar use and for empty bin treatment for stored product insects. It can still be used on the canola plant for in-season insect control according to label directions. However, do not use it to treat canola for storage or the empty bins where canola will be stored. This can result in residues in the canola.
Market Issues	Japan is the number one customer of Canadian canola seed with imports valued at over \$450 million each year. The Japanese industry is very concerned over pesticide residues, especially those that are applied to stored canola or to empty bins. In addition, the Japanese government is introducing new food safety legislation that will prohibit entry of any commodities if pesticide residues are found above the allowable limit. If malathion is detected above the allowable limit in Japan the shipment will be rejected resulting in millions of dollars of losses and increased testing of all shipments to Japan.
Recommendation to Growers	Do not treat empty grain bins with malathion before storing canola.
Alternatives Management for stored product insects	<p>Most insects in stored canola will not feed on sound, healthy seed. Moisture-loving fungus feeders such as foreign grain beetles, psocids and mites may be found in canola if it is in poor condition. Primary stored product insects can be found if there is cereal grain mixed in with stored canola.</p> <p>Growers should make sure the bin is free of chaff, seeds, and foreign material. Combine settings should be set to harvest sound seed. Bins must be well sealed to prevent moisture infiltration and totally insecticide-free. It is important to keep canola cool and dry in the bin (for long term storage, temperatures should be kept at less than 15 °C and grain moisture levels below 8 %.)</p>



All pesticides (herbicides, insecticides, fungicides).	
Description & History	All pesticides (herbicides, insecticides and fungicides) must be registered by the Pest Management Regulatory Agency before using the product. Use only registered pesticides on canola and always apply at the label rate and at the timing listed on the label. Always follow the pre-harvest interval because applying the product too close to harvest can result in higher residue levels.
Market Issues	<p>Canada – 25% of the canola grown in Canada is consumed in Canada. If residues of an unregistered pesticide are detected in Canada, the crop could be seized and growers could be charged under the federal Pest Control Products Act and/or Food and Drug Act.</p> <p>Countries are becoming increasingly strict about residues in the commodities they import.</p> <p>The U.S. has a zero limit for pesticides that do not have an approved tolerance.</p> <p>Japan is the number one customer of Canadian canola seed and imports over \$450 million each year. The Japanese industry is very concerned over pesticide residues and the Japanese government is introducing new food safety legislation that will prohibit entry of any commodities if pesticide residues are found above the allowable limit. If any pesticide is detected above the allowable limit in Japan the shipment will be rejected resulting in millions of dollars of losses and increased testing of all shipments to Japan.</p>
Recommendation to Growers	<p>Use only registered pesticides when required.</p> <p>Always follow the pre-harvest interval because applying the product too close to harvest can result in higher residue levels.</p> <p>Refer to the provincial Guides to Crop Protection for further information and proper use instructions:</p> <p>Manitoba: http://www.gov.mb.ca/agriculture/crops/cropproduction/gaa01d01.html</p> <p>Saskatchewan: http://www.agr.gov.sk.ca/Docs/crops/cropguide00.asp</p> <p>Alberta: http://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/agdex32</p>



STORAGE RECOMMENDATIONS

<p>Storage Recommendations: <u>Treated seed</u> <u>Animal Protein</u> <u>Stored Product Insect Control: Malathion</u></p>	
<p>Description & History</p>	<p>Treated seed contains pesticides (usually an insecticide and/or fungicides).</p> <p>Animal protein includes blood meal and bone meal.</p> <p>Malathion is an insecticide registered in Canada for foliar use and for empty bin treatment for stored product insects. It can still be used on the canola plant for in-season insect control according to label directions. However, do not use it to treat canola for storage or the empty bins where canola will be stored. This can result in residues in the canola.</p>
<p>Market Issues</p>	<p>Residues of seed treatments can impact any market, including domestic use in Canada.</p> <p>Japan is the number one customer of Canadian canola seed and imports over \$450 million each year.</p> <p>The Japanese industry is very concerned over any food safety issues, including exposure to ruminant protein (due to concerns over BSE in beef) and also pesticide residues, especially those that are applied to stored canola or to empty bins.</p> <p>In addition, the Japanese government is introducing new food safety legislation that will prohibit entry of any commodities if pesticides residues are found above the allowable limit. If malathion is detected above the allowable limit in Japan the shipment will be rejected resulting in millions of dollars of losses and increased testing of all shipments to Japan.</p>
<p>Recommendation to Growers</p>	<p>Ensure all storage bins are free of treated seed and animal protein. Do not treat empty grain bins with malathion before storing canola. Malathion can still be used as a foliar spray on canola according to label directions.</p>