



# Pesticide Safety *Training for Scouts*

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Minor Use Coordinator

Before entering these fields, which one(s) do you have to consider potential pesticide exposure?

a) Corn



b) Raspberries



c) Pick-your-own lavender



d) Organic crops



Photo credit: MySafetySign

e) a & b (Corn and Raspberries)

f) All of the above



## Pesticides on the Farm

- Conventional and Organic Pest Control Products (Pesticides)
- Most crops are sprayed with pesticides at some point during the growing season
- ALWAYS Err on the side of caution – consider the possibility that the field you are entering may have been sprayed.
- Do not enter a field until you have confirmed whether it has been sprayed, what it has been sprayed with, and when it was sprayed.
- Need to protect yourself



## Using Pesticides in Canada

- All products applied for pest control must be reviewed and registered by Health Canada's Pesticide Regulatory Directorate (PRD)
  - Formerly known as the Pest Management Regulatory Agency (PMRA)
- Registration is based on detailed scientific data to assess product safety and value (e.g. efficacy, residues, plant metabolism, soil dissipation, occupational exposure)
- Data is used to establish the **product label**
  - outlines how the product can be legally used
  - specifies safety protocols to minimize worker exposure during and after application

# Exposure

- You can be exposed to pesticides if you enter a treated area too soon after application.
- Exposure can be:
  - oral
  - dermal
  - respiratory
- Over time, pesticide residues and vapours dissipate until they no longer pose a risk to workers entering fields.
- The length of time required varies with the product, the rate, the type of work and environmental conditions.



# Restricted Entry Interval (REI)

The period of time that agricultural workers, or anyone else, **must not do hand labour in treated areas** after a pesticide has been applied.

- The PRD determines the REI based on risk.
- You will find the REIs on the product label
- Gives time for pesticide residues to **breakdown** to **safe levels** (including a safety factor) for work to be done.



# Hand Labour Tasks

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- Involve **substantial worker contact** with treated surfaces such as plants, plant parts or soil.
- Examples: planting, harvesting, pruning, detasseling, thinning, weeding, **scouting**, topping, sucker removal, mowing, roguing, and packing produce into containers in the field or greenhouse.
- You can only do these tasks **after** the REI has passed.



# Restricted Entry Intervals

- Can range from 0 hours to several days
- Specific to **PRODUCT, CROP** and post-application **TASK**
- REIs can change over time  
→ Check the current pesticide label
- For a tank mix, go with the longest REI

No REI on the label?  
Use a 12 hour REI.





MENU ▾

[Canada.ca](#) > [Health](#) > [Product safety](#) > [Consumer Product Safety](#) > [Pesticides and Pest Management](#) > [Registrants and Applicants](#)  
> [Tools](#)

## Pesticide Label Search

### Mobile label application

You can access Pesticide Labels on your mobile device with our mobile application.



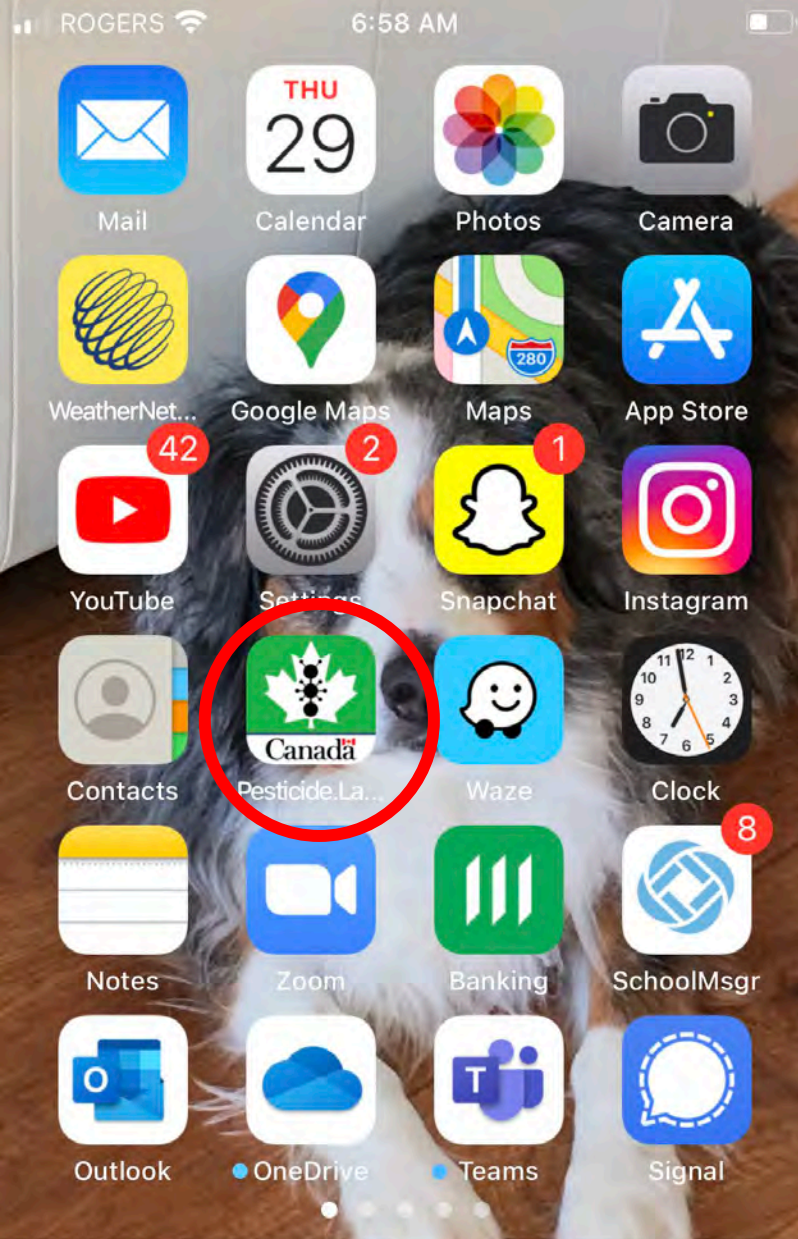
Canada

Download the app:



### Online label search

The online [Label Search](#) is a flexible tool that is used to gather pesticide product information by searching the available Product Information Elements, or the full textual content of the entire label collection from the Pest Management Regulatory Agency (PMRA) Registered Products Database.



### Search

Enter the text you wish to ...

Search

#### Disclaimer

This database is provided « as-is » and PMRA makes no warranty, either express or implied, including but not limited to, warranties of merchantability and fitness for a particular purpose. In no event will PMRA be liable for any direct, special, indirect, consequential or other damages, however caused.

### Search

Enter the text you wish to search for  
copper

Search

#### Disclaimer

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### Search Results

391 results found.

Filter within results

COPPER 53W WETTABLE POWDER  
Registration Number : 9934

ARMORALL COPPER II WOOD PRESERVATIVE PAINTABLE GREEN SOLUTION  
Registration Number : 10781

PQ-8 LIQUID FUNGICIDE CONCENTRATE  
Registration Number : 12143

PENTOX COP-R-NAP GREEN WOOD PRESERVATIVE  
Registration Number : 12375

GUARDSMAN COPPER OXYCHLORIDE 50  
Registration Number : 13245

SPECTRUM CONCENTRATED NEUTRAL QUATERNARY SANITIZER  
Registration Number : 15249



### Product Information

APPROVED LABEL - English

Registration Number :  
9934

Product Name :  
COPPER 53W WETTABLE POWDER

Registrant Name :  
LOVELAND PRODUCTS CANADA INC.\*

Registration Status :  
REGISTERED

Date of First Registration :  
1967-07-01



2023-7055  
2024-05-31

GROUP M FUNGICIDE

USE BAG

COPPER 53W

WETTABLE POWDER FUNGICIDE

COMMERCIAL

WARNING POISON

READ THE LABEL BEFORE USING

REGISTRATION NO. 9934  
PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT: Copper, present as basic copper sulphate 53.4%

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL,  
FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT. 1-800-561-8273

LOVELAND PRODUCTS CANADA INC.  
789 Donnybrook Drive  
Dorchester, Ontario  
N0L 1G5  
1-800-328-4678

NET CONTENTS: 10 kg

02/11

2023-7055  
2024-05-31

#### DIRECTIONS FOR USE

DO NOT apply this product in a way that will contact workers or bystanders, either directly or through drift. Only protected handlers may be in the area during application.

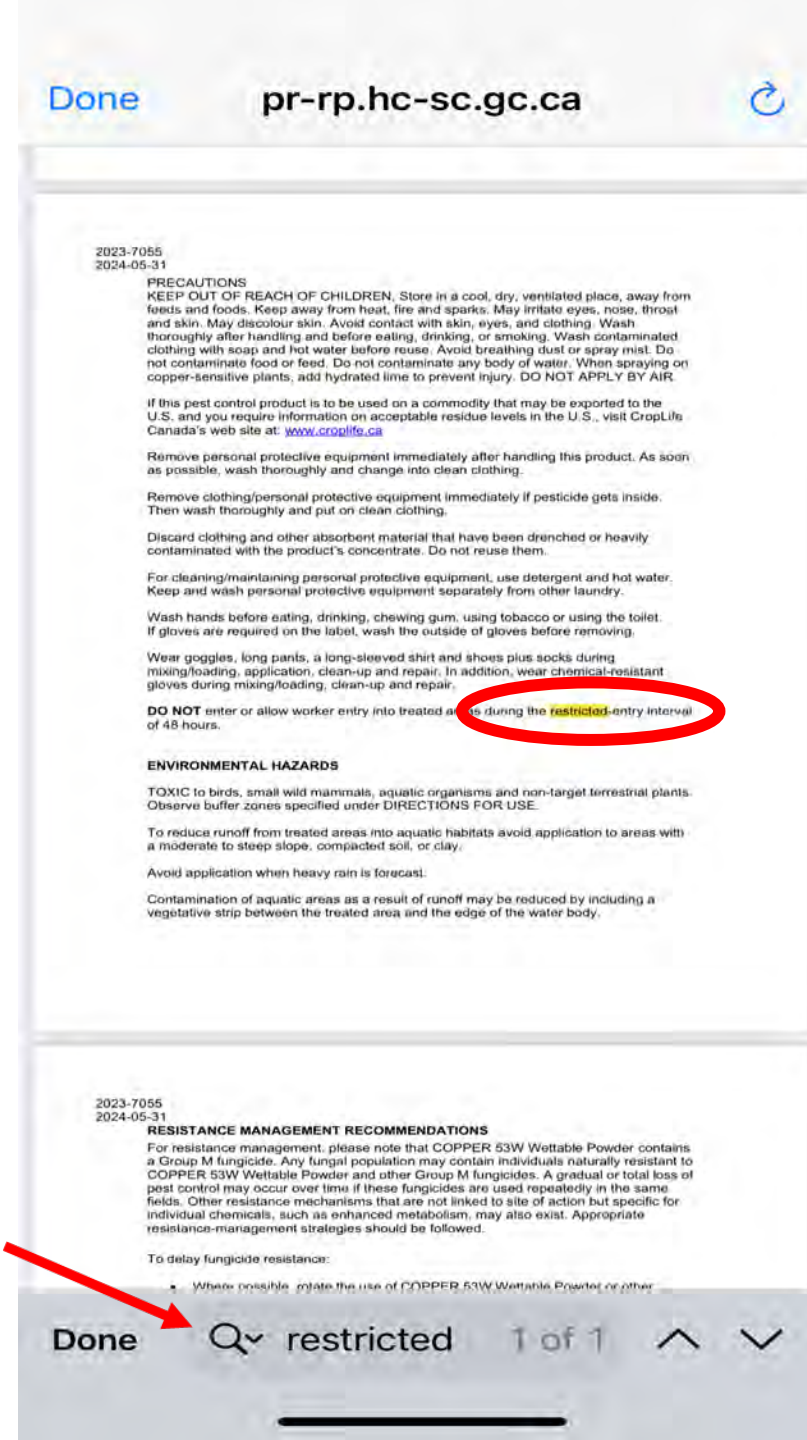
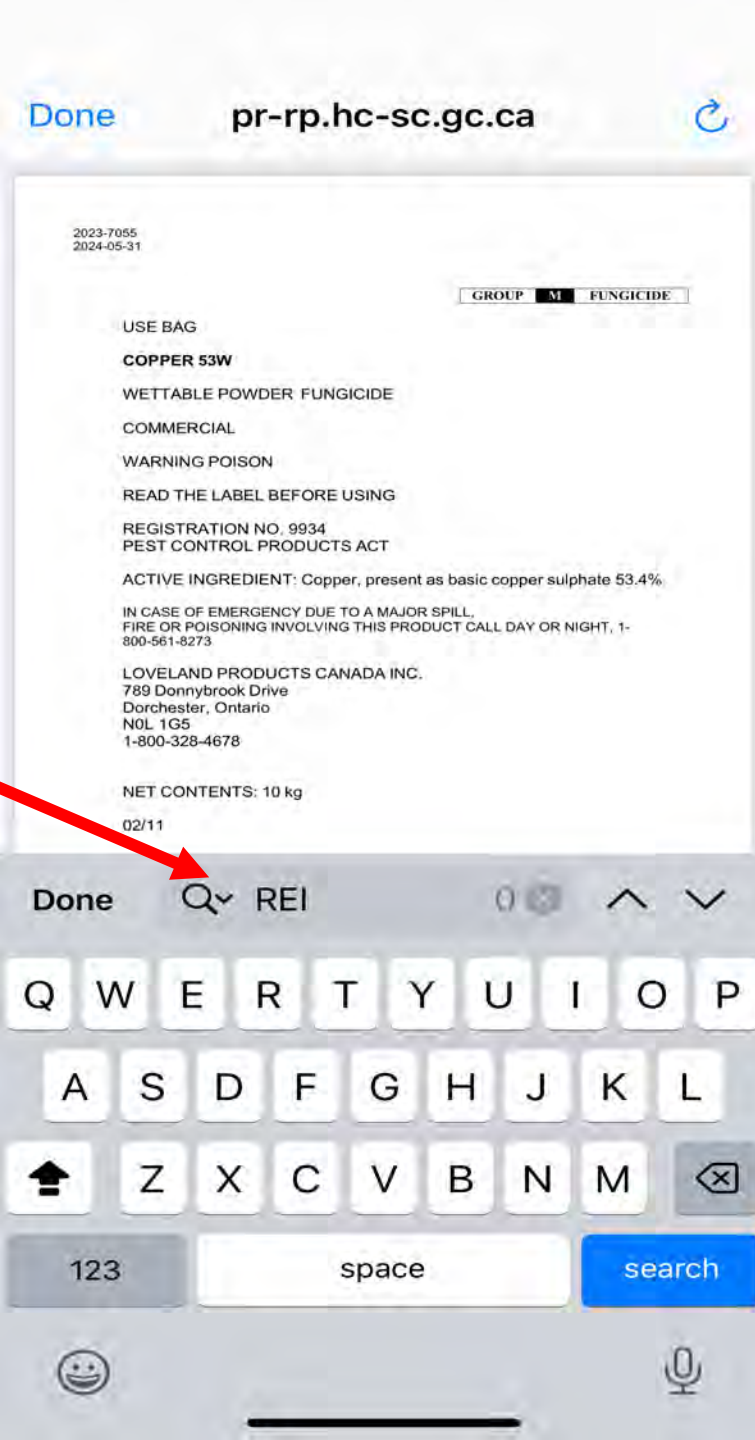
DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands), estuarine/marine habitats.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply by air.

Post a warning sign, containing product sprayed and the date, at the entrances to





**PRECAUTIONS**  
KEEP OUT OF REACH OF CHILDREN. Store in a cool, dry, ventilated place, away from feeds and foods. Keep away from heat, fire and sparks. May irritate eyes, nose, throat and skin. May discolour skin. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling and before eating, drinking, or smoking. Wash contaminated clothing with soap and hot water before reuse. Avoid breathing dust or spray mist. Do not contaminate food or feed. Do not contaminate any body of water. When spraying on copper-sensitive plants, add hydrated lime to prevent injury. **DO NOT APPLY BY AIR.**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca)

Remove personal protective equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Remove clothing/personal protective equipment immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

For cleaning/maintaining personal protective equipment, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. If gloves are required on the label, wash the outside of gloves before removing.

Wear goggles, long pants, a long-sleeved shirt and shoes plus socks during mixing/loading, application, clean-up and repair. In addition, wear chemical-resistant gloves during mixing/loading, clean-up and repair.

**DO NOT enter or allow worker entry into treated areas during the restricted-entry interval of 48 hours.**

**ENVIRONMENTAL HAZARDS**  
TOXIC to birds, small wild mammals, aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

**RESISTANCE MANAGEMENT RECOMMENDATIONS**

**REI = 48 Hours**



**Health Canada**  
www.hc-sc.gc.ca

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Home > Consumer Product Safety > Pesticides & Pest Management > Registrants & Applicants > Tools > Search Product Label

**Consumer Product Safety**

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**Search Product Label**

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.

You can now access Pesticide Labels on your mobile device with our new [Application](#).

**Search product information**

**Search full contents of e-labels:**

Enter the text you wish to search for

**Initial Criteria:**

Search Field  Operator

Criteria   


- Cas Number
- Active Ingredient
- Product Name
- Registrant Name
- Registration Number

And/Or

**Additional Criteria:**

Search Field  Operator

<https://pr-rp.hc-sc.gc.ca/lr-re/index-eng.php>

**Spell correctly**





**Health Canada**  
 www.hc-sc.gc.ca

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**Consumer Product Safety**

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Enter the text you wish to search for

**Initial Criteria:**

**Search Field**  **Operator**

**Criteria**

**And/Or**

**Additional Criteria:**

**Search Field**  **Operator**

Example:

- Product Name

- Basagran



# Health Canada

www.hc-sc.gc.ca

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Home > Consumer Product Safety > Pesticides & Pest Management > Registrants & Applicants > Tools > Search Product Label

## Consumer Product Safety

Print | Text Size: S M L XL Help

### Label Search Results

Number of records found = 5

#### Label search results

Registration Number	Registrant Name	Product Name	Registration Status
<u>12221</u>	BASF CANADA INC.*	<u>BASAGRAN LIQUID HERBICIDE</u>	REGISTERED
<u>20898</u>	BASF CANADA INC.*	<u>TECHNICAL BENTAZON (BASAGRAN)</u>	REGISTERED
<u>22006</u>	BASF CANADA INC.*	<u>BASAGRAN FORTE HERBICIDE</u>	REGISTERED
<u>29417</u>	BASF CANADA INC.*	<u>BASAGRAN FORTE BULK HERBICIDE</u>	REGISTERED
<u>31135</u>	BASF CANADA INC.*	<u>BASAGRAN LIQUID HERBICIDE BULK</u>	REGISTERED

#### Refine Search Parameters

# Ontario.ca/ CropProtection

The product label is a legal document and label instructions must be followed.  
[View more info](#) ▾

[Give feedback here](#)

## Welcome to the Ontario Crop Protection Hub

The Ontario Crop Protection Hub is OMAFA's official crop protection resource. Please use this online resource to find pest management and crop protection options for Ontario.

### Looking to control weeds?

Use the weed control search to find management options and to compare their effectiveness.

#### [Weed control search](#)

Find management options for weeds affecting Ontario crops

### Looking for insect, disease and other crop management strategies?

Use the crop protection searches to find specific management information.

#### [Fruit crop protection](#)

Find insect, disease and crop management strategies for Ontario fruit crops

#### [Tree nut crop protection](#)

Find insect, disease and crop management strategies for Ontario tree nut crops

#### [Ginseng crop protection](#)

Find insect, disease and crop management strategies for Ontario ginseng crops

#### [Field crop protection](#)

#### [Greenhouse ornamentals crop protection](#)

#### [Vegetable crop protection](#)

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#### [Ginseng crop protection](#)

Find insect, disease and crop management strategies for Ontario ginseng crops

#### [Field crop protection](#)

Find management options for insects and diseases affecting Ontario field crops

#### [Greenhouse ornamentals crop protection](#)

Find insect, disease and crop management strategies for Ontario greenhouse ornamental crops

#### [Vegetable crop protection](#)

Find management options for pests affecting Ontario vegetable crops

#### [Greenhouse vegetables crop protection](#)

#### [Flue-cured tobacco crop protection](#)

The product label is a legal document and label instructions must be followed.

[View more info](#) 

This section is still being updated. Some content may be missing, incorrect or outdated.

## Fruit crop protection

### Select crop species

Search for crop species (21)



Apples - Bearing



Apples - Non bearing



Apricots



Blackberry



The product label is a legal document and label instructions must be followed.

[View more info](#)

This section is still being updated. Some content may be missing, incorrect or outdated.

## Fruit crop protection

### Apples - Bearing

[Grid view](#)
[List view](#)
[Efficacy view](#)
[About views](#)

128 product(s) with late information for current selection

Sort results by

Chemical group

<p>Non toxic for Honeybees</p> <p>FRAC 1</p> <p>Fungicide*</p> <p><b>Senator 50 SC</b></p> <p><i>a.i.(s): Thiophonate-methyl</i></p> <p><a href="#">View efficacy breakdown</a></p> <p><a href="#">View details</a></p> <p><a href="#">Select to compare</a></p>	<p>Non toxic for Honeybees</p> <p>FRAC 1</p> <p>Fungicide*</p> <p><b>Mertect SC</b></p> <p><i>a.i.(s): thiabendazole</i></p> <p><a href="#">View efficacy breakdown</a></p> <p><a href="#">View details</a></p> <p><a href="#">Select to compare</a></p>	<p>Non toxic for Honeybees</p> <p>FRAC 1</p> <p>Fungicide*</p> <p><b>Tibet 50 SC</b></p> <p><i>a.i.(s): thiabendazole</i></p> <p><a href="#">View efficacy breakdown</a></p> <p><a href="#">View details</a></p> <p><a href="#">Select to compare</a></p>
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Crop species:

Apples - Bearing

Select pest(s)/growth regula

Select application method

Select products to compare

Reset

\* Product type registration may vary for crop : product details for more information.

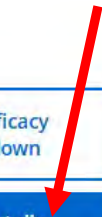
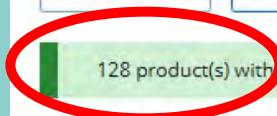
= This product is potentially or

= View detailed product page t about this product.

Related links

[Apple Pest Management Information](#)

<p>Moderately toxic for Honeybees</p> <p>IRAC 4A</p> <p>Insecticide*</p> <p><b>Assail 70 WP</b></p> <p><i>a.i.(s): acetamiprid</i></p> <p><a href="#">View efficacy breakdown</a></p> <p><a href="#">View details</a></p> <p><a href="#">Select to compare</a></p>	<p>Very toxic for Honeybees</p> <p>IRAC 4A,15</p> <p>Insecticide*</p> <p><b>Cormoran</b></p> <p><i>a.i.(s): acetamiprid + novaluron</i></p> <p><a href="#">View efficacy breakdown</a></p> <p><a href="#">View details</a></p> <p><a href="#">Select to compare</a></p>	<p>Non toxic for Honeybees</p> <p>IRAC 4A</p> <p>Insecticide*</p> <p><b>Calypso 480 SC</b></p> <p><i>a.i.(s): thiacloprid</i></p> <p><a href="#">View efficacy breakdown</a></p> <p><a href="#">View details</a></p> <p><a href="#">Select to compare</a></p>
<p>Non toxic for Honeybees</p> <p>IRAC 4A</p> <p>Insecticide*</p> <p><b>Theme 480 SC</b></p> <p><i>a.i.(s): thiacloprid</i></p>	<p>Very toxic for Honeybees</p> <p>IRAC 4C</p> <p>Insecticide*</p> <p><b>Closer</b></p> <p><i>a.i.(s): sulfoxaflor</i></p>	<p>Very toxic for Honeybees</p> <p>IRAC 4C,5</p> <p>Insecticide*</p> <p><b>TwinGuard</b></p> <p><i>a.i.(s): sulfoxaflor + spinetoram</i></p>



# Assail 70 WP application information

For use on: Apples - Bearing

- Maximum of 2 applications of products from Group 4A per season. Repeated use may result in mite outbreaks.
- This product is toxic to bees. Avoid application during bloom or when bees are active. See label for specific bee toxicity statements.



[View full product page](#)

## Product attributes

Product type:

Registration number and product label:

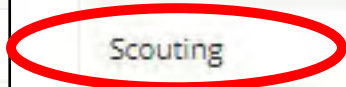
Active ingredient(s)

Chemical group(s):

Potentially organic:

## Restricted entry intervals

Activity	Interval
General re-entry	12 hour(s)
Contact	48 hour(s)
Scouting	48 hour(s)
Hand thinning	6 day(s)



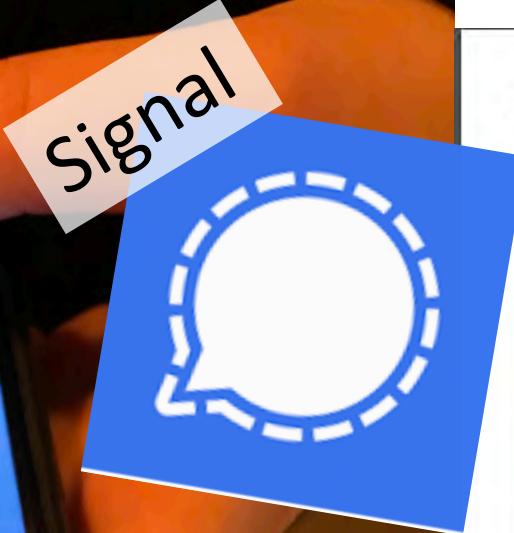
## Preharvest intervals

Activity	Interval
General harvest	7 day(s)

# Before entering fields

- Find out if any pesticides were applied to the crop you plan to enter - ask the grower or spray applicator or check the spray records
- Look up the REI for the product that was applied to the crop
- Do not enter the crop until the REI has ended
- Tell your supervisor where you'll be that day
- Check with your supervisor on any products with special instructions beyond the REI





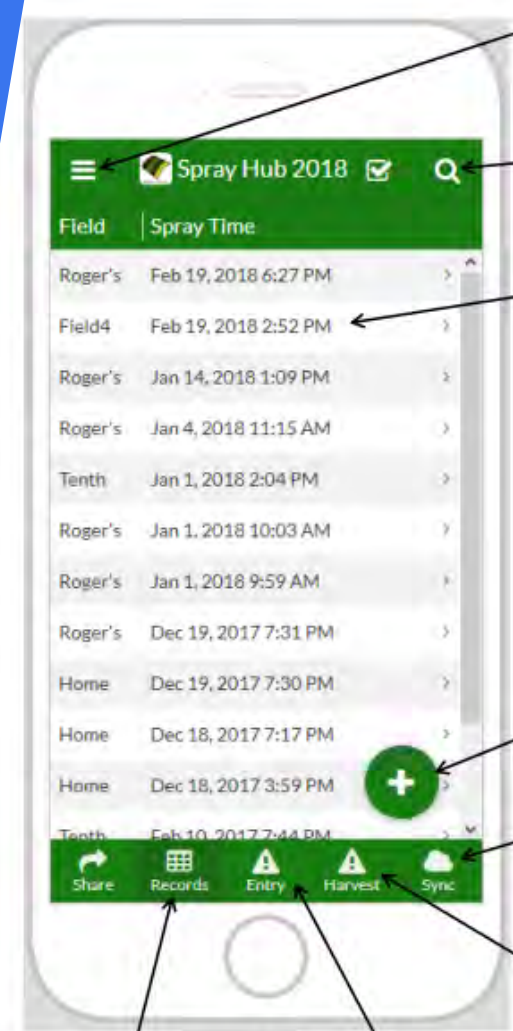
Signal



WhatsApp



**Spray Record Overview**



The **Hamburger** pushbutton. Use this button to access spray product information, to add field names, to plan spray applications and to log out of the app.

The **Search** pushbutton. Used to find specific spray records or spray products by entering single words such as field name, spray name etc.

A **spray record**. The complete contents of this record can be displayed by selecting the record

# Spray Hub app

The **Add Record** pushbutton. Use this button to add a new spray record

The **Sync** pushbutton. Use this button to synchronize your app with the latest version in the cloud

The **Spray Record** pushbutton. Use this button to return to the home screen (as shown)

The **Entry Prohibited** pushbutton. Use this button to list fields where entry is currently prohibited. It also shows the date/time when entry to each field is permitted

The **Harvest Prohibited** pushbutton. Use this button to list fields where harvest is currently prohibited. It also shows the date/time when harvest of each field is permitted



## When you arrive at the field

- Miscommunication can happen
- Learn to recognize signs of spraying

**Distinct Odour**

# Signs of Spraying



**DO NOT  
ENTER**

Except for vehicular or bicycle traffic  
[Active ingredient, Name of product]  
Fumigant BUFFER ZONE

DO NOT ENTER Until: Date: \_\_\_\_\_ Time: \_\_\_\_\_

Applicator: Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Tel no.: \_\_\_\_\_

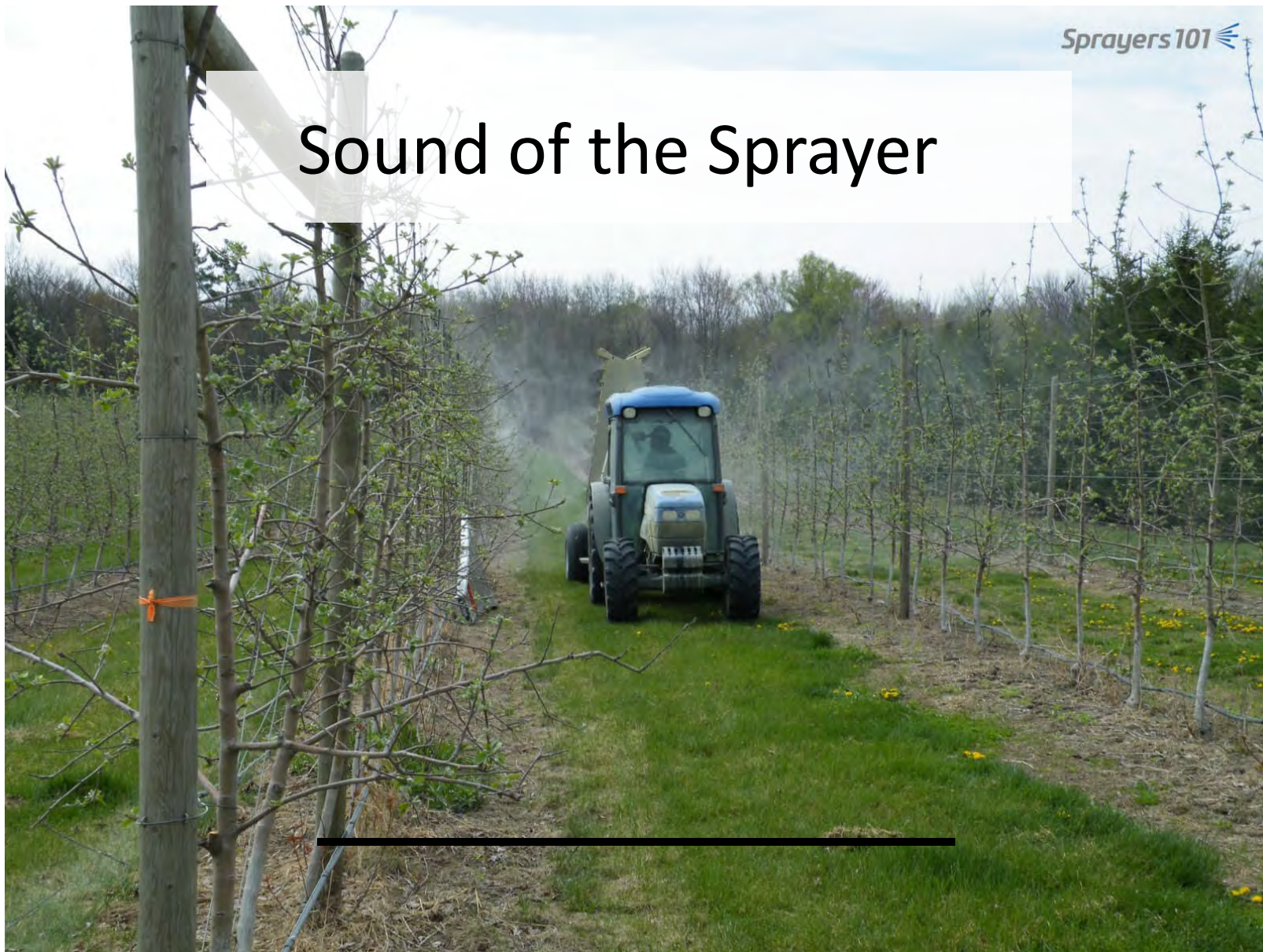


# Signs of Spraying

Tractor spray row tracks



# Signs of Spraying



Sprayers 101

Sound of the Sprayer



# Signs of Spraying

Residues  
on leaves

## Pesticide Residue??

**Nope.**

Calcium Magnesium  
precipitates in  
irrigation water



When in doubt, leave the field and call the grower to confirm or call your supervisor.

# Pre-harvest Interval (PHI)

The **minimum time** that must pass between the last pesticide application and the harvesting of the crop or the grazing and cutting of the crop for livestock feed

- When you apply a pesticide to a crop, some residue may remain on the crop at harvest time.
- If you harvest a crop before the pre-harvest interval (PHI) has ended, there may be pesticide residues in excess of the maximum residue limits (MRLs) set by PMRA
  - MRL = maximum amount of pesticide residue that may remain on food after a pesticide is applied as per label directions and which can safely be consumed
  - PRD sets the MRL well below a level that may cause harm to human health
  - MRL is specific for every pesticide-crop combination

# Good Hygiene Practices for Scouts



Always wash your hands thoroughly before eating, drinking or using the toilet.



Regular laundering of clothing separate from other clothes is recommended



Shower at the end of the day

# Potential Symptoms of Exposure

headache, fatigue,  
irritation of the skin, eyes, nose or throat,  
loss of appetite, dizziness,  
nausea or vomiting, diarrhea,  
decreased muscle coordination,  
blurred vision

**GET MEDICAL HELP Immediately**

**For Pesticide Poisonings, call...**

**Ontario Poison Centre**

**1-800-268-9017**

or

**9-1-1**



**Thank you!**  
***Scout Safely.***  
**Questions?**

Josh Mosiondz

Minor Use Coordinator

226-971-3407

[Joshua.Mosiondz@ontario.ca](mailto:Joshua.Mosiondz@ontario.ca)