

PESTICIDE DISPOSAL

MARCH 17, 2026

Stephanie Smith, Plant Industry, VAAFM

Overview

Integrated Pest Management

Pesticide Product Access and Purchase

Elements of Pesticide “Use”

Pesticide Containers

Pesticide Management Best Practices



Product Stewardship

“the responsible and ethical management of a product, throughout its life cycle, from invention through ultimate use and finally discontinuation.”



Pesticide Product Stewardship

“ensures the availability of high-quality products and services and best practices to ensure compliance with all legal and regulatory requirements, facilitate trade, maximize product potential and sustainability, and minimize risks to human and animal health and the environment.”

Bob Montano, Envu

Overview

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Integrated Pest Management

Identify

What pest are you trying to control?

- Identify pest and life stage
- Assess Conditions
- Understand scale of impact

Integrated Pest
Management

Prevent

**What conditions does the
pest like?**

- Manage conditions
- Do not spread pests
- Prevent establishment of pest



Integrated Pest Management

- **Mechanical**
- **Cultural**
- **Biological**
- **Chemical – use of herbicides, fungicides, insecticides, etc.**

Integrated Pest Management

Decision

What is your tolerance for the pest?

- Nuisance
- Economic

What will you do?

- Identify areas that you want to protect
- Monitor/survey

Overview

Pesticide Product Access and Purchase

Elements of pesticide “Use”

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Pesticide Product Stewardship- Access

Should the end user have access to the pesticide?

- Restricted Use Pesticide, Class A
- “Professional use”
- Specialized training
- Application equipment

Is the end user qualified?

- Certification
- Understand Label
- Site, Equipment, Storage , PPE
- Recordkeeping

Pesticide Product Stewardship- Access

Class A pesticides shall be sold only to certified applicators with certification in the appropriate category specific to a use site on the pesticide label.

Only “use” pesticides in registered in Vermont.

Understand if the Agency has additional restrictions on a pesticide.

Pesticide Product Stewardship- Purchasing

- Site of application
- Size area to be treated
- Equipment
- Personal protective equipment

Applicators, mixers, loaders, and other handlers must wear:

- Long sleeved shirt
- Long pants
- Socks and shoes
- Dust/mist-filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P, or HE filter.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements can be reduced or modified as specified in the WPS.

Nuisance dust masks and goggles provide the best protection for harvesters especially when plants are shaken during harvest.

Overview

Pesticide “Use”

Pesticide Containers

Pesticide Management Best Practices

Definition of Pesticide “USE”

“Use” means:

- (a) pre-application activities involving mixing and loading a pesticide;
- (b) applying a pesticide, including supervising the use of a pesticide by a noncertified applicator;
- (c) other pesticide-related activities, including transporting or storing a pesticide container that has been opened, cleaning equipment, and disposing of any excess pesticide, spray mix, equipment wash water, a pesticide container, and other pesticide-containing material; or
- (d) recommending the use of a pesticide.

Definition of Pesticide “USE”

- **Use** means:
- (a) pre-application activities involving **mixing and loading** a pesticide;
- (b) **applying a pesticide**, including supervising the use of a pesticide by a noncertified applicator;
- (c) other pesticide-related activities, including transporting or **storing** a pesticide container that has been opened, cleaning equipment, and disposing of any excess pesticide, spray mix, equipment wash water, a pesticide container, and other pesticide-containing material; or
- (d) recommending the use of a pesticide.

Store in the original container and only in a cool, dry, secure place. Store between a range of 32°F to 100°F.

Pesticide Storage

Clinch Ant Bait may be an attractant to rodents and domestic animals. Store in a cool, dry, secure place. To maintain maximum effectiveness, close container tightly after each use and use within 5 months after opening.

PESTICIDE STORAGE: Protect the product from freezing temperatures. Store the product at temperatures above 32°F and preferably above 40°F.

PESTICIDE USE STORAGE

Definition of Pesticide “USE”

Use means:

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- (b) applying a pesticide, including supervising the use of a pesticide by a noncertified applicator;
- (c) other pesticide-related activities, including transporting or storing a pesticide container that has been opened, cleaning equipment, and **disposing of any excess pesticide, spray mix, equipment wash water, a pesticide container, and other pesticide-containing material**; or
- (d) recommending the use of a pesticide.

Options

- Unused pesticides- if unopened contact dealer/manufacturer/formulator to return
- Obsolete pesticides – contact manufacturer/ formulator to determine if they have a program for recycling or destruction
- Rinsate- apply as directed on the label
- Excess tank mixes- apply as directed on the label

STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed, or seed by storage or disposal.

PESTICIDE STORAGE: Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food, or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replace lid and close tightly. Do not put concentrate or diluted product into food or drink containers.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by disposal. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed must be disposed of on site or at a landfill or waste disposal facility approved for pesticide disposal, or in accordance with all applicable Federal, state, or local regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Empty containers retain vapor and product residues.

Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

PESTICIDE USE

RINSATE AND EXCESS

Disposal

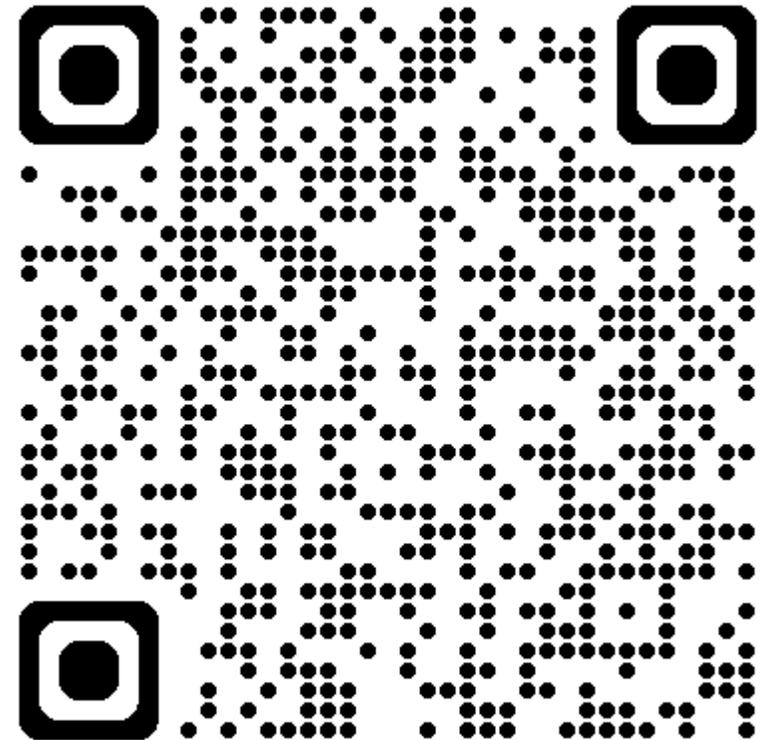
- Rinsate
- Excess tank mixes
- Pesticide Spills

These are considered hazardous waste, unmarked drums in some instances, could be combined with other materials like fertilizer, or adjuvants.

Disposal

Contact Your Waste District or Town

- Products must be in their original container with a legible label
- A tank mixes, pesticide spill materials, or unmarked containers will be treated as hazardous waste



Overview

Pesticide Containers

Pesticide Management Best Practices

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

PESTICIDE USE

CONTAINER MANAGEMENT



Professional use EPA registered Pesticide Containers (Jugs and Drums)

Only containers free of residues and booklets

Containers are recycled and do not end up in a landfill

Container Management

Collection of triple rinsed containers is free

Contractor receives request for collection

Bail plastic at the point of collection

Call RPM Eco for pick up

Justin Geisinger

717-658-9660

jgeisinger@rpm.eco

[Ag Container Recycling Council \(ACRC\)](#)

RINSING VIDEOS



Overview

Pesticide Management Best Practices



Pesticide Management Best Practices

Buying pesticides

- Pesticides must be registered for sale and use in Vermont
- Check your storage to determine if you have product on hand
- Review previous year's use records to understand what you might need

Properly triple rinse pesticide containers

- Store separately from pesticides and outside secondary containment areas
- schedule a pick-up, 877-535-0777

Pesticide Management Best Practices

Pesticides Storage

- In accordance with the label
- In the original labelled container

Periodically inspect your storage area

- Are all the products in your storage area registered for use in Vermont?
- Are there products with new use restrictions?
- Never stockpile pesticides



Pesticide Management Best Practices

- Unopened products should be returned to dealer, manufacturers/formulators
- Obsolete products should be disposed of you can call a manufacturer to determine if they will take the product back
- Or dispose of them at your local solid waste management entity



QUESTIONS

THANK YOU

Stephanie Smith, Plant Industry, VAAFM