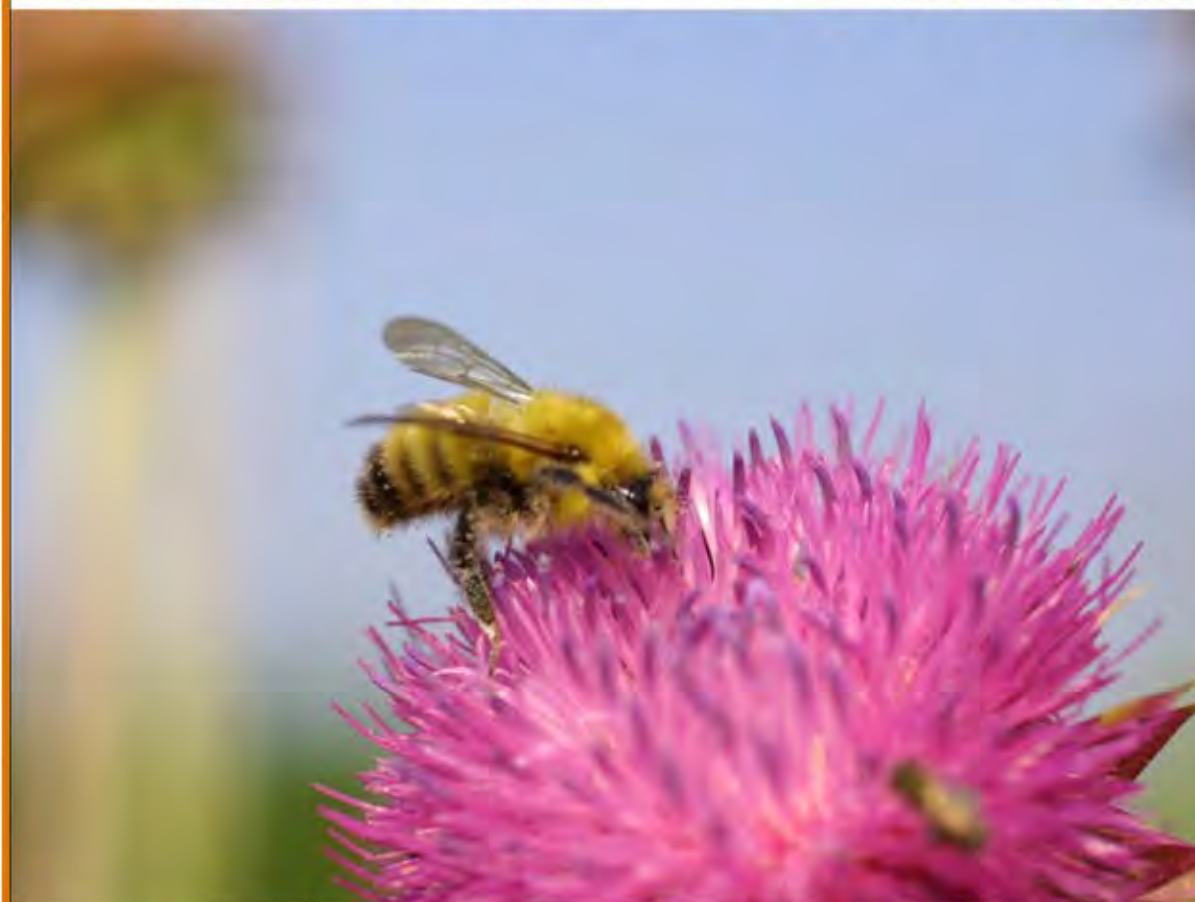


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Label Review Manual

Chapter 13: Storage and Disposal



<http://life.nbi.gov>, National Biological Information Infrastructure, Library of Images From the Environment, Elizabeth A. Sellers

I. Introduction

This chapter discusses the storage and disposal instructions for pesticides and pesticide containers. Label reviewers should use this chapter as well as information presented in PR Notices [83-3](#), [84-1](#), [84-5](#), [94-2](#), [2007-1](#), and [2007-4](#); in the regulations at [40 CFR §156.10\(i\)\(2\)\(ix\)](#) and [§§156.140–156.159](#); and in *Reregistration Eligibility Decision (RED)* documents or *Registration Review Decisions* for active ingredients. In addition, chemical-specific storage and disposal statements have been provided by the Agency for certain pesticides, as stated in *PR Notice 84-1* (and an errata sheet dated April 12, 1984), and in PR Notice [84-5](#). These chemical-specific statements are described in detail in this chapter.

According to [40 CFR §156.10\(i\)\(2\)\(ix\)](#), pesticide products must have label instructions for the storage, residue removal and disposal of pesticides and pesticide containers. For many years, the content of these Storage and Disposal instructions has been established in PR Notices. The labels of pesticide products “released for shipment”¹ after August 16, 2011 must bear Storage and Disposal instructions that also conform with the requirements in Subpart H – Container Labeling, [40 CFR §§156.140 – 156.159](#). However, registrants may submit to the appropriate EPA Product Manager team a request for a waiver or modification (with a justification) from EPA for any of the requirements in Subpart H. *[If EPA requires a different statement or approves a modification or waiver, label changes would be made by amendment. Registrants can use notification if the exact wording is used from the regulations in 40 CFR §§156.140 – 156.156 or if otherwise allowed by EPA. (See PR Notice 2007-4)]*

This chapter is organized so that general information is provided in section II followed by instructions for a general storage and disposal state in section III; pesticide storage in section IV; pesticide disposal in section V; and container handling (i.e., container cleaning instructions, reuse limitations, and container recycling or disposal) in section VI. Next, section VII describes how to present information on one label for multiple uses, container types and/or sizes. Attachments follow with information on (A) pesticide storage statements for products with certain active ingredients; (B) storage statements suggested by EPA; (C) container handling instructions by container type; and (D) sample storage and disposal statements for antimicrobial pesticides.

II. Reviewing the statements

A. Determining Storage and Disposal Labeling

The Storage and Disposal section of the label **must have** instructions on how to:

- Store a product
- Dispose of leftover pesticides
- Clean an empty container (for certain types of pesticides and containers)
- Dispose of an empty container if recycling or reconditioning is not an option.

In addition, the Storage and Disposal section of a label **may have** instructions on how to:

- Dispose of pesticide rinsate
- Return the container for refilling (for sale or distribution), if it can be reused.

¹ The definition of “released for shipment” in [40 CFR §152.3](#) is: “...A product becomes released for shipment when the producer has packaged and labeled it in the manner in which it will be distributed or sold, or has stored it in an area where finished products are ordinarily held for shipment. Products stored in an area where products are ordinarily held for shipment, but which are not intended to be released for shipment must be physically separated and marked as not yet released for shipment. Once a product becomes released for shipment, the product remains in the condition of being released for shipment until subsequent activities, such as relabeling or repackaging, constitute production.”

B. Statement Location

Storage and Disposal instructions (*except for batch codes*) must be grouped together under the heading “Storage and Disposal” and should be within the “Directions for Use” section *at the end*, while clearly *set apart* (as blocked or in a box) from the rest of the “Directions for Use”. (See §156.10(i)(2)(ix) and PR Notice 83-3)

EXCEPTION:

All but one of the container statements required by 40 CFR 156.140 – 156.159 can be placed on the actual container (not on the closure) itself. Specifically, the container type, container reuse and container recycling or reconditioning statements can be on the container, but not the cleaning instructions. Cleaning instructions must always be on the label itself. When statements are on a container the label must have an appropriate statement under “Storage and Disposal” that directs the user where to find the information. *Examples* are: “See container for recycling [*or other descriptive word*] information” or “Refilling limitations are on the container.”

Any container statement required by 40 CFR 156.140 – 156.159 and put directly on the actual container itself must be durably marked such as by (but not limited to) etching, embossing, ink jetting, stamping, heat stamping, mechanically attaching a plate, molding, or marking with durable ink. (See §156.140)

C. Format

If it is a nonrefillable container and the container handling statements are placed on the label (or labeling), registrants must use an appropriate subheading under the heading “Storage and Disposal”. (See §156.140(a)) Alternatively, for refillable containers the Agency suggests (does not require) a subheading. Subheadings commonly used are “Container Handling” or “Container Disposal”. However, when making label revisions EPA recommends that registrants transition to using “Container Handling”.

The example below shows the order and subheadings of a typical storage and disposal section of a label for a non-residential² use product.

DIRECTIONS FOR USE

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Storage³:
[Where and how to store the product.]

Pesticide Disposal⁴:
[What to do with product that is left over and not going to be used.]

Container Handling⁵:
[Whether the container is nonrefillable or refillable; if it can be reused, recycled or reconditioned; how to dispose of it if recycling or reconditioning is not an option; and how to clean it if cleaning is required.]

² In this version of Chapter 13, EPA has simplified the phrase “residential/household use” from PR Notice 2007-1 for clarity, particularly when describing the opposite set of products. The phrase “non-residential use” is more clear than “non-residential/household use” or non-residential/non-household use”. See footnote 10 for more details.

³ Registrants may use alternative subheadings such as “Pesticide Storage” or “Product Storage”, with the approval of the EPA reviewer and/or EPA Product Manager.

⁴ Registrants may use alternative subheadings such as “Product Disposal” or “Disposal” with the approval of the EPA reviewer and/or EPA Product Manager.

⁵ Registrant may use alternative subheadings such as “Container Disposal” with the approval of the EPA Reviewer and/or EPA Product Manager. When making label revisions, EPA recommends that registrants transition to “Container Handling.”

D. Type Size Requirements

The heading “Storage and Disposal” must be in type of the same minimum sizes as required for the child hazard warning by 40 CFR 156.60(b). (See §156.10(i)(2)(ix))

III. General storage and disposal statements

The Agency historically has required all productsexcept for residential⁶ use products to bear the following statement for risk management purposes:

“Do not contaminate water, food, or feed by storage or disposal”.⁷

Preferably, registrants should place this statement immediately under the heading “Storage and Disposal” since it concerns both storage and disposal. However, it may be placed elsewhere within the Storage and Disposal section. (See PR Notice 83-3)

IV. Pesticide storage statements

Pesticide storage instructions are required by §156.10(i)(2)(ix). Safe storage is essential to protect against accidental exposure to children, bystanders and workers, environmental contamination due to leaks and spills, and intentional exposure due to vandalism or terrorism. EPA has preferred storage instructions for certain active ingredients (section A); suggested statements for other products (section B); and guidelines for registrants developing their own storage instructions (section C). Registrants and EPA reviewers may use their discretion when choosing storage statements for any given product, unless certain instructions are specified in a PR Notice, RED, or a Registration Review Decision.

A. Preferred Storage Statements (for products with certain active ingredients)

As mentioned above, the Agency has preferred storage statements for products with the following active ingredients:

- Calcium hypochlorite - liquid and solid
- Chloropicrin
- Ethylene oxide
- Etridiazole
- Sodium hypochlorite - liquid
- Sulfuryl fluoride
- Methyl bromide and methyl bromide plus 2% or less chloropicrin
- Phosphide – aluminum and magnesium
- Sodium cyanide

For products with one of these active ingredients, see Attachment A for the appropriate storage statement(s). (Note that a complete set of sample storage and disposal statements for liquid sodium and calcium hypochlorites as well as solid calcium hypochlorite can be found in Attachment D.)

⁶ “Residential” was previously referred to as “residential/household” in PR Notice 2001-6.

⁷ EPA revised this statement to end “...by storage OR disposal” to correct an error in the 2008 version of Chapter 13 so it is consistent with PR Notice 83-3. When making label revisions, EPA recommends that registrants transition to the version of the statement that ends “...by store or disposal.”

B. Suggested Storage Statements (for products with active ingredients not included in the list above)

A list of EPA-suggested storage statements for all other products (not listed above in A) is provided in Attachment B.

C. Developing Other Storage Statements

For products that do not have active ingredients listed above in section A, *PR Notices 84-1* or *84-5*, or that do not have storage statements provided by an Agency decision document (e.g., a RED), label reviewers and registrants may use the suggested storage statements in Attachment B, or develop storage instructions for each product based on the following considerations:

1. Whether the composition or usefulness of the pesticide could be altered by: temperature extremes, excessive moisture or humidity, heat, sunlight, friction, contaminating substances or media that may affect the product.
2. Physical requirements of storage that could affect the container and its ability to function properly: container type, positioning of the container in storage, storage temperature, crushing or damage by stacking, penetration of moisture, and ability to withstand shock or friction.
3. Handling the container: movement within storage area, proper opening and closing procedures (particularly if the container has been opened), and how to minimize exposure while opening or closing the container.
4. Instructions on what to do if the container is damaged in any way, or if the pesticide is leaking or has been spilled, and precautions to minimize exposure if damage occurs.
5. General precautions, such as:
 - Lock the storage area, store product in the original container only, or separate products during storage to prevent cross-contamination with other pesticides, fertilizer, food and feed.
 - If it is a residential use product, emphasize keeping the pesticide in the original container and in a locked storage area, and not using an empty container for other uses or substances. (*See PR Notice 83-3*)

D. Additional Guidance on Storage Statements

Websites of state extension services, state and federal agencies and industry associations may offer guidance that is useful for developing storage instructions. Common features include the need for:

- Security - locks, restricted access, frequent inspections for tampering, signage in appropriate languages;
- Recordkeeping - inventory, deliveries, employee licenses, contact and emergency numbers posted;
- Spill prevention and cleanup - emergency response plan, cleanup and first aid supplies; and
- Site integrity - ventilation, lighting, pallets and protection from weather and run on, secondary containment, etc.

V. Pesticide disposal statements

Registrants must provide appropriate instructions on how to dispose of leftover or unused pesticides (*40 CFR 156.10(i)(2)(ix)* and *40 CFR part 156*, Subpart H). Pesticide disposal statements are specific to the uses of the product (e.g., residential or non-residential use) and whether it is a hazardous waste when discarded or “highly toxic”.

Listed below are pesticide disposal statements for:

- A. Residential use **only** products (including non-antimicrobial residential use) that are not hazardous waste or highly toxic;
- B. **Non**-residential use products that are hazardous waste or are highly toxic; and
- C. **Non**-residential use products that are not hazardous waste and are not highly toxic.

In sections A, B and C below, language in quotation marks may generally be used verbatim by registrants making label changes by notification.

While Unit V focuses on pesticide disposal statements, some container handling statements are included here for clarity. First, section A shows the pesticide disposal and container handling instructions that are combined for residential use products. These combined pesticide disposal and container handling instructions should appear under the subheading “Pesticide Disposal and Container Handling.”

- For non-antimicrobial residential use products, these combined statements were originally provided by *PR Notice 2001-6* (superseded by *PR Notice 2007-1*) and have been updated to reflect the container-containment regulations and *PR Notice 2007-4*.
- For antimicrobial residential use products, the pesticide disposal and container handling instructions that were provided in PR Notices *83-3* and *84-1* are still valid and have been updated to reflect the container-containment regulations. In addition, antimicrobial residential use products can voluntarily use the pesticide disposal and container handling instructions for non-antimicrobial residential use products.

Second, section B includes some adjustments to the container handling instructions that may be appropriate for pesticides that are acute hazardous wastes when discarded.

For non-antimicrobial residential use products, pesticide disposal and container handling instructions are combined and should appear under the subheading “Pesticide Disposal and Container Handling.” These statements were originally provided by *PR Notice 2001-6* (superseded by *PR Notice 2007-1*), have been updated to reflect the container-containment regulations and *PR Notice 2007-4*, and are presented in section A below.

For antimicrobial products that are residential use, the pesticide disposal and container handling instructions which were provided in PR Notices *83-3* and *84-1* are still valid, have been updated to reflect the container-containment regulations, and are also presented in section A below. In addition, antimicrobial products that are for residential uses can voluntarily use the pesticide disposal and container handling instructions for non-antimicrobial residential use products.

A. Pesticide disposal and container handling instructions for residential use only products (including non-antimicrobial residential use) that are not hazardous waste or highly toxic

Description of Containers and Products	Pesticide Disposal and Container Handling Statements	Description of Residential Use Product
<p>Pressurized container for any residential use product (PR Notices 94-2, 2007-1 & 2007-4; 40CFR 156.140(a))</p> <p><i>Note: Because we assume that pressurized containers are aerosol cans, the "Nonrefillable container" and "Do not reuse or refill this container." statements are not required for these containers. (40 CFR 156.140(a)(5)(i))</i></p>	<p>"Do Not Puncture or Incinerate! If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions."</p> <p>Or</p> <p>"Do Not Puncture or Incinerate! If empty: This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the country. Before offering for recycling, empty the can by using the product according to label (DO NOT PUNCTURE!). If recycling option is not available, wrap the container and discard in trash. If partly filled: Call your local solid waste agency for disposal instructions."⁸</p>	<p>A pesticide product is considered to be a residential use product if it meets one or both of the following⁹:</p> <p>The intended end use of the product is in or around a residence or household by a resident; and/or The product is regularly available to household consumers for purchase, and of a size and type practicable for household use, regardless of</p>
<p>Non-pressurized container for any residential use product PR Notices 2007-1 & 2007-4; 40 CFR 156.140(a))</p>	<p>"Nonrefillable container. Do not reuse or refill this container.¹⁰ If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain."</p>	

⁸ Although the sentence "At present, there are only a few such centers in the country." is consistent with PR Notice 94-2, the Agency recognizes this may no longer be the case. Therefore, it is acceptable for registrants to omit this sentence.

⁹ Previously, this referred to "a non-antimicrobial pesticide product". However, PRN 84-1 which has not been superseded for antimicrobial products (section IIB clarification of PRN 83-3 pesticide storage and disposal instructions) says "EPA intended to include under the household use section of the PR Notice, those products which have 'domestic uses,' as defined in 40 CFR 162.3(m)(1-4) and products whose use patterns and container sizes are similar to those defined as 'domestic use'. Thus, for the purposes of this PRN, the definition for household use patterns includes products which are marketed in container sizes similar to products intended for household use and are used in public areas such as office buildings, retail stores, hotels and schools, and hospital patient care areas, as well as products intended for use in home gardens and lawns." In this case, the definition for "household use patterns" could include antimicrobial use pesticides. Therefore, EPA has deleted "a non-antimicrobial pesticide product" so that the definition of residential use applies to antimicrobial and non-antimicrobial products. Also, in this version of Chapter 13, EPA has simplified the phrase "residential/household use" from PR Notice 2007-1 for clarity, particularly when describing the opposite set of products. The phrase "non-residential use" is clearer than "non-residential/household use" or "non-residential/non-household use". (See footnote 22 for an explanation of why residue removal instructions are still required for most non-residential use products.)

¹⁰ The statements "Nonrefillable container. Do not reuse or refill this container." are not required for certain container types (See section IV C below). Also, there are other options for the statement "Do not reuse or refill this container." that can be found in 156.140(a)(2). Those options are: 1) "Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state." and 2) if the product is ready-to-use and the directions for use allow a different (similar but concentrated) product to be poured into the container and diluted by the end user: "Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container."

Description of Containers and Products	Pesticide Disposal and Container Handling Statements	Description of Residential Use Product
Pressurized or non-pressurized container for antimicrobial residential/household use products <i>(PR Notices 83-3, 84-1 & 2007-4; 40 CFR 156.140(a))</i>	"Nonrefillable container. Do not reuse or refill this container. ³ Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available." Or "Nonrefillable container. Do not reuse or refill this container. ³ Wrap [container] and put in trash or offer for recycling if available."	whether it is also marketed for agricultural use. <i>(PR Notice 2007-1)</i>

Alternative statement for the "If partly filled:" instructions found in section A above

Registrants who voluntarily use a toll-free number or website should:

- (1) Put "Call your local solid waste agency or" in front of the toll free number or website address and "for disposal instructions" after, so the statement is "Call your local solid waste agency or (insert toll free number or web site) for disposal instructions."; [Note: some toll free numbers and websites, such as 1-800-CLEANUP and www.earth911.org, may require a licensing agreement. For more information, registrants should contact the organization supporting the toll free number.]
- (2) Use a service that is available between 18 – 24 hours per day, free to users, available nationally, gives advice agreeable to the local solid waste authority for the location of the user, and/or provides a direct phone number for the appropriate local or state authority;
and
- (3) Reasonably assure that the service will continue to exist at a level that meets user demand.

(PR Notice 2007-1)

B: Pesticide disposal instructions for products not solely for residential use that are hazardous waste; or are highly toxic

Description of pesticide products	Pesticide disposal statements	When a pesticide is a hazardous waste or highly toxic
<p>For products that are not solely for residential use and meet any of the criteria in the far right hand column.</p>	<p>"Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance."</p>	<p>A pesticide product should bear one of the pesticide disposal instructions in this section if the product:</p>
<p>For products that are not solely for residential use and the active ingredient is an acute hazardous waste per 40 CFR 261.33(e) (<i>PR Notice 83-3</i>)</p> <p><i>See the text box below for alternative container handling instructions for pesticides that are acute hazardous waste when disposed.</i></p>	<p>"Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance."¹¹</p>	<p>1) Contains active ingredients that, when discarded, <u>are hazardous</u> waste under the Resource Conservation and Recovery Act (RCRA), 40 CFR 261.33(e) and (f);</p> <p>2) When discarded, meets the criteria in 40 CFR 261, Subpart C for a <u>characteristic</u> waste under RCRA;</p> <p>3) Is in Toxicity Category I [DANGER] on the basis of oral or dermal toxicity, or skin or eye irritation potential;</p>
<p>For products that are not solely for residential use and if either: (1) the active ingredient is a toxic hazardous waste per 40 CFR 261.33(f); or (2) the product meets any of the criteria in 40 CFR Part 261 Subpart C for a characteristic hazardous waste (<i>PR Notice 83-3</i>)</p>	<p>"Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance."</p>	<p>or</p> <p>4) Is in Toxicity Category I [DANGER] or II [WARNING] on the basis of acute inhalation toxicity.</p>

¹¹ PR Notice [83-3](#) offers this statement for products assigned Toxicity Category I (on the basis of oral or dermal toxicity, skin or eye irritation potential), or Toxicity Category I or II (on the basis of acute inhalation toxicity). However, this statement is misleading for these products since they may not be acute hazardous waste upon disposal.

Alternative Container Handling Instructions for Pesticide Products that are Acute Hazardous Waste When Discarded

Pesticide container handling instructions are described in detail in section IV and Attachment C of this chapter. The following statements can be used (as described below) on the labels of pesticide products that contain active ingredients that, when discarded, are acute hazardous wastes under the RCRA, [40 CFR 261.33\(e\)](#). These statements were originally developed for certain specific products, but are also appropriate for any pesticide products that are acute hazardous wastes when discarded.

For nonrefillable bags of granular or dry formulation:

Use the appropriate container handling statements as described in Attachment C, Tables C4 (*for nonrefillable paper & plastic bags*) and C8 (*for other non-rigid nonrefillable containers*), but change the how to clean statement (in e) and the recycling statement (in f1)

from: "...Completely empty bag into application equipment. Offer for recycling if available or..."

to: "...Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed of in accordance with local, state and federal regulations. When completely empty, offer for recycling if available or..."

For nonrefillable or refillable plastic or metal containers with a dry flowable or liquid formulation:

Use the appropriate container handling statements as described in Attachment C, Tables C1 (*for nonrefillable metal containers, non-aerosol*), C3 (*for nonrefillable plastic containers*), C7 (*for other rigid nonrefillable containers*), C11 (*for refillable metal containers, non-aerosol*), C9 (*for refillable plastic containers*), and C13 (*for other refillable containers*), **but add the following language after the recycle, reconditioning and disposal instructions** (in f):

"...If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations. DO NOT cut or weld metal containers."*

(*The last sentence should be used for metal containers, but not for plastic containers.)

C. Pesticide disposal instructions for products that are not solely for residential use and are not hazardous waste or highly toxic

Description of pesticide products	Pesticide disposal statements
<p>For products not specifically identified in a RED or a PR Notice, that are not solely residential use, are not hazardous wastes, and are not highly toxic (as described above in section B)</p> <p><i>Note: The second option may be preferred in some states.</i> (PR Notice 83-3)</p>	<p>"Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility."</p> <p>or</p> <p>"To avoid waste, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry)."</p>

VI. Container handling statements

A. Subheading

Labels for products in nonrefillable containers must have the appropriate subheadings under the heading “Storage and Disposal” for the statements required by [§156.140\(a\)](#) regarding (1) “Nonrefillable container.”; (2) container reuse/refill; and (3) container recycling/reconditioning. If placed on the label of a nonrefillable container, these three types of statements must be under an appropriate subheading. EPA recommends that registrants use “Container Handling” rather than “Container Disposal” or similar wording, and that they transition from using “Container Disposal” to “Container Handling”. when making other label revisions,

Although a subheading is required only for nonrefillable containers and not refillable containers, EPA recommends using a similar subheading for the container instructions for refillable containers. (*See §156.140(a)*)

B. Location

Most container handling instructions are put on the label. However, the container statements required by [§156.140](#) (identifying the container type, reuse/refill limitations, and information on recycle/reconditioning) can be on the actual container itself as long as the user knows where to find it. For example, under the heading “Storage and Disposal” registrants may put “See container for information on reusing the container” or another appropriate statement. If statements are placed directly on the actual container itself they must be durably marked. Durable marking includes, but is not limited to, etching, embossing, ink jetting, stamping, heat stamping, a mechanically attached plate, molding, or marking with durable ink. (*See §156.140*) Alternatively, the residue removal instructions and container disposal instructions *must be* on the label under the heading “Storage and Disposal.” (PR Notice [83-3](#), [§156.10\(i\)\(2\)\(ix\)](#) and [§156.144](#)) The batch code can be on the label or the container. (*See §156.140*)

C. Instructions

Container handling instructions should be appropriate for the container type. For example, users should *not* be instructed to puncture or incinerate a pressurized container. In sections C1a through C1f below, language in quotation marks may generally be used verbatim by registrants making label changes by notification. (Exceptions to this are explained on a case-by-case basis.) Optional guidance is provided in brackets. (*See PR Notice 2007-4*)

Is it a “refillable” or “nonrefillable” container?

The registrant decides based on how the container is intended to be used

A “refillable container” is one that is intended to be refilled for sale or distribution.

A “nonrefillable container” may **not** be refilled for sale or distribution, but in some cases the end user can refill it for use only.

The registrant determines whether a container is “refillable” or “nonrefillable.” A refillable container is intended to be filled with pesticide more than once for sale or distribution. A “nonrefillable container” is designed and constructed for one-time use and is not intended to be filled again with a pesticide for sale or distribution. (*See §165.3*)

Products registered solely for residential use are usually sold in *nonrefillable* containers, although occasionally the label instructions allow an end user to refill the container for his/her own use. For example, if a consumer buys a spray bottle filled with a ready-to-use product, uses all of the pesticide up, and buys a 1-gallon bottle with

product to refill the spray bottle, then the spray bottle is a “nonrefillable container” because it is being filled again *for use*, not for sale or distribution. For this to be legal, the instructions on the label of the spray bottle cannot specifically prevent it, e.g., the label of the spray bottle cannot say “Do not reuse or refill this container.” and must allow this practice, e.g. “Do not reuse or refill this container except as allowed in the directions for use.”

The remainder of this section describes the statements that are required or recommended by EPA regulations or policies. Attachment C shows the full set of appropriate container handling instructions for different types of containers.

If it is a <i>nonrefillable</i> container, the label must have:	If it is a <i>refillable</i> container, the label must have:
<p>A subheading such as “Container Handling” on the label under the heading “Storage and Disposal”; and:</p> <ul style="list-style-type: none"> a. The nonrefillable container statement b. Reuse limitations c. When to clean (for dilutable pesticides) d. How to clean (for dilutable pesticides) e. Recycle or recondition (and should also have how to dispose) f. Batch code <p style="text-align: right;"><i>(See section 1 below)</i></p>	<ul style="list-style-type: none"> a. The refillable container statement b. Reuse limitations c. Who is responsible for cleaning & when d. How to clean <p>The label <i>should have</i> container return or disposal instructions.</p> <p>EPA <i>recommends</i> that these instructions appear on the label under a subheading such as “Container Handling”.</p> <p style="text-align: right;"><i>(See section 2 on Refillable Containers)</i></p>

1. NONREFILLABLE CONTAINERS

If the pesticide is distributed or sold in a nonrefillable container, the label must have the statements described below unless otherwise exempted, modified or waived with EPA approval. If EPA requires a different statement or approves a modification or waiver, label changes would be made by amendment. Registrants can use notification if the exact wording is used from the regulations in 40 CFR §§[156.140](#) – [156.156](#) or if otherwise allowed by EPA.

1a. Nonrefillable container and 1b. Reuse limitations

The phrase “Nonrefillable container.” and one of the reuse limitations are required on the label *except if*:

- The product is a plant-incorporated protectant, pesticidal article not already exempted under [§152.25\(a\)](#) or distributed only in a transport vehicle (*See §156.140, and §156.140(d)&(e)*).
- EPA requires a different statement or approves a modification or waiver requested by the registrant.
- The product and/or container type is listed in Table 1 (*See §156.140(a)(5)*).

Table 1. Exemptions to the Requirement for “Nonrefillable container” Statement and Reuse Limitations on the Label

Exemption (<i>§156.140(a)</i>)	Example
(i) Aerosol can	Bug spray (insecticide) in aerosol can
(ii) Device as defined in <i>§152.500</i>	Mouse trap
(iii) One-time use caulking tube or other one-time use squeezable tube container for paste, gel or other similar substance	Crack & crevice treatment gel in syringe applicator; Pet product gel in squeezable tube
(iv) Foil packet for water soluble packaging, repellent wipes, or other one-time use products	Foil or plastic pouches around water-soluble film holding a dose of pesticide; Foil packet with gel strip for wood treatment; Pouch around mosquito repellent coils
(v) One-time use portion control packet, such as a polyethylene sleeve package or rodenticide place pack	Portion pack with sanitizer; Plastic pouch for swimming pool tablet; Plastic pouch for disinfecting wipes (and refill pack for user); Plastic pouch for toilet bowl cleaner tablet
(vi) One-time use bait station	Bait station for rodenticide product
(vii) One-time use cage for repellent or trapping strip	Cage containing sticky strip with insecticide
(viii) Pet collar or animal ear tag, such as for cattle	Flea collar for pets
(ix) One-time use semiochemical dispersion device	A polymeric dispenser (2 tubes fused together) that can be hung from a tree branch and contains a pheromone
(x) Any container that is destroyed by the use of the product contained	Shrink wrap on block of cattle feed
(xi) Any container that would be destroyed if reuse of the container were attempted	Roll-on fly repellent; Cassette containing sterilant for hospital equipment; Closed, sonic-sealed dispensing systems used in industrial and institutional settings

Registrants should consult with the EPA Product Manager if they are uncertain whether a product fits into one of the categories in Table 1 above.

1a. The phrase “Nonrefillable container.” and 1b. Reuse limitations on nonrefillable containers (*See §156.140(a)(1)&(2)*)

When the “Nonrefillable container.” phrase and a reuse limitation statement are both required for a pesticide in a nonrefillable container, registrants must use one of the following options:

- i. “Nonrefillable container. Do not reuse or refill this container.”
- ii. “Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.”
- iii. For a ready-to-use product that has directions for use that allow a different product (that is a similar, but concentrated formulation) to be poured into the container and diluted by the end user: “Nonrefillable

container. Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container.” *(Note: In some situations, EPA has waived the requirement to include the phrase “Nonrefillable container.” if this set of reuse limitations is used.)*

- iv. An acceptable variation of 1.b.iii. is: [Nonrefillable container. Do not reuse or refill this container except as allowed in the directions for use.] In this case, the directions for use must describe how to refill the container and with what product(s). *(Note: This set of instructions is not in quotation marks because it is not verbatim from the regulations. It is up to the EPA reviewer and/or PM whether it can be accepted via notification or amendment. Also, in some situations EPA has waived the requirement to use the phrase “Nonrefillable container.” when this set of reuse limitations is used.)*

1c. and 1d. Cleaning instructions Cleaning instructions are required on the label if the nonrefillable container is rigid and the product is dilutable EXCEPT

if the product is a:

- Residential¹² use only;
- Gas at atmospheric conditions;
- Pesticidal article that is not already exempted by §152.25(a); and
- Pesticide distributed only in transport vehicles.

(Exempt by regulation. See 40 CFR 156.144)

In addition, EPA may require a different statement or approve a modification or waiver requested by the registrant. Note: If a nonrefillable container is not rigid or the product is not dilutable, or both, cleaning instructions (both when and how) are not required. Preferred cleaning instructions for non-rigid container types such as bags can be found in PR Notice 83-3 (e.g., “Completely empty bag into application equipment.”) and in the appropriate tables in Attachment C.

¹² More information on residue removal requirements for non-residential antimicrobial products can be found in footnote 22.

What is a “dilutable” pesticide?

For the purposes of the container-containment regulation, a dilutable pesticide is one for which “...the pesticide product’s labeling allows or requires the pesticide product to be mixed with a liquid diluent prior to application or use.” (§156.3)

A pesticide applied directly to swimming pool water is **not** a dilutable pesticide because it is not mixed with a diluent before it is added to pool water.

Similarly, many manufacturing use products are **not** dilutable because they are not mixed with a diluent before they are used to formulate a product, although it depends on the specific directions for use on the label.

1c. When to clean rigid, nonrefillable containers of dilutable pesticides

The options are:

- i. “Clean container promptly after emptying.”
- ii. “Triple rinse or pressure rinse container (or equivalent) promptly after emptying.”
- iii. “Triple rinse container (or equivalent) promptly after emptying.”

(See §156.146(a))

Registrants using option 1.c.ii (above) must give triple rinse instructions, immediately followed by pressure rinse instructions.

1d. How to clean rigid, nonrefillable containers of dilutable pesticides

For dilutable pesticides in rigid nonrefillable containers, the label must include triple rinse instructions unless EPA waives the requirement. The options for **triple rinse** instructions for rigid, nonrefillable containers with dilutable pesticides are:

- i. For liquid dilutable pesticides in rigid, nonrefillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons), “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 ¼ 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.”
- ii. For solid dilutable pesticides in rigid, nonrefillable containers small enough to shake (i.e., with capacities equal to or less than 5 gallons or 50 pounds), “Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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.”
- iii. For any dilutable pesticides in rigid, nonrefillable containers too large to shake (i.e., with capacities more than 5 gallons or 50 pounds), “Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30

seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.”

(See §156.146(b))

- iv. For antimicrobial products with public health claims that are dilutable pesticides in rigid, nonrefillable containers EPA has approved the following alternative rinsing instructions that are generally added by amendment, not notification:

In containers small enough to shake (i.e., with capacities equal to or less than 5 gallons or 50 pounds), "Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times.”

In containers too large to shake (i.e. with capacities more than 5 gallons or 50 pounds), "Triple Rinse as follows: Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times.”

- v. For seed treatment products in rigid, nonrefillable containers, EPA has approved the following alternative rinsing instructions that are generally added by amendment, not notification:

Triple rinse as follows: *For containers with capacity equal to or less than 5 gallons:* Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of ¼ of the container volume, and recap. Shake for 30 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. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

For containers with capacities greater than 5 gallons: Empty the remaining contents into application equipment or a mix tank. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of ¼ of the container volume. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 60 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

The options for **pressure rinse instructions** for rigid, nonrefillable containers of dilutable pesticides are:

- vi. For liquid dilutable pesticides in rigid, nonrefillable containers, “Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.”

- vii. For solid dilutable pesticides in rigid, nonrefillable containers, “Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.”

(See §156.146(c))

Registrants who want to use a non-water diluent must submit a request to EPA explaining why a diluent other than water is necessary, what the diluent is, and the instructions that would be used for cleaning the container and disposing of the rinsate.

Registrants may not distribute or sell the pesticide with modified residue removal instructions (using a non-water diluent) until EPA approves the request in writing.
(See §156.146(d))

1e. Recycle, recondition, or dispose

The label of a pesticide product in a nonrefillable container must have instructions on whether to recycle or recondition nonrefillable containers *except for* plant-incorporated protectants, pesticidal articles not already exempted under §152.25(a), and pesticides distributed only in transport vehicles, or if EPA requires a different statement or approves a modification or waiver requested by the registrant. In addition, the label should include instructions for disposing of the container if recycling or reconditioning is not an option. (See §156.140(a)(3) and PR Notice 83-3)

The options for **container recycling/reconditioning** (§156.146(a)(3)) are:

- i. “Offer for recycling if available or *[disposal statement]*.”
- ii. “Offer for reconditioning if appropriate or *[disposal statement]*.”
- iii. If it is an agricultural product: “Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer or contact *[a pesticide container recycling organization]* at *[phone number]* or *[web site]* or *[disposal statement]*.” *[An example of a pesticide container recycling organization, phone number or web site is: Ag Container Recycling Council at 1-877-952-2272 or www.acrecycle.org]*
- iv. A recycling statement published in an EPA document, such as a PR Notice.
- v. A recycling statement reviewed and approved by EPA.

The options for **disposing** of the container are: *[to follow one of the statements from i. through v above]*

- ...place [or put] in trash or in a sanitary landfill.
- ...dispose of in trash or in a sanitary landfill or by incineration.
- ...dispose of in trash or in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
- ...dispose of in trash or in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.
- ...dispose of in trash or in a sanitary landfill or by incineration. In most states, burning is not allowed.

1f. Batch code

The batch code is required on all nonrefillable containers **except for** plant-incorporated protectants, pesticidal articles not already exempted under [§152.25\(a\)](#) and pesticides distributed solely in transport vehicles. It may be a lot number, or other code used by the registrant or producer to identify the batch of the product distributed or sold. *(See §156.140(a)(4))* In a situation where multiple containers are sold in one box, each container must have a batch code unless EPA approves a request (with a justification) to modify or waive the requirement.

2. REFILLABLE CONTAINERS

If the pesticide is distributed in a refillable container, the label,	
MUST HAVE:	2a. The refillable container statement 2b. Reuse limitations 2c. Who is responsible for cleaning and when 2d. How to clean
AND SHOULD HAVE:	2e. Return and/or disposal instructions

If the pesticide is distributed or sold in a refillable container, the label must have the statements described below unless otherwise exempted, modified or waived with EPA approval. If EPA requires a different statement or approves a modification or waiver, label changes would be made by amendment. Registrants can use notification if the exact wording is used from the regulations in 40 CFR §§[156.140](#) – 156.156 or if otherwise allowed by EPA.

2a. Refillable container and 2b. Reuse limitations

2a. The statement “Refillable container” and **2b.** Reuse limitations are required on the label of all refillable containers **except for** plant-incorporated protectants, pesticidal articles not already exempted under [§152.25\(a\)](#), and pesticides distributed only in transport vehicles. Also, EPA may require a different statement or approve a modification or waiver requested by the registrant.

The options are:

- i. “Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.”
- ii. “Refillable container. Refill this container with [common chemical name] only. Do not reuse this container for any other purpose.”

Unlike nonrefillable containers, the labels of refillable containers must have cleaning instructions whether or not the container is rigid and/or the product is dilutable.

2c and 2d Cleaning instructions

2c. Statements about who is responsible for cleaning a refillable container & when are required on the label of all refillable *except for* pesticidal articles not already exempted under §152.25(a), pesticides that are gases under atmospheric conditions, residential/household use products and pesticides distributed only in transport vehicles. Also, EPA may require a different statement or approve a modification or waiver requested by the registrant. (See §156.144(c) through (g))

The options are:

- i. “Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.” (*Triple rinsing or pressure rinsing instructions follow.*); or
- ii. “Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.” (*Pressure rinsing instructions follow.*)

(See §156.156(a))

2d. Instructions on how to clean a refillable container are required *except for* products that are pesticidal articles not already exempted under §152.25(a), gases under atmospheric conditions, residential/household use or pesticides distributed only in transport vehicles. Also, EPA may require a different statement or approve a modification or waiver requested by the registrant. (§156.144(c) through (g))

Instructions for removing residue from refillable containers prior to disposal must be appropriate for the characteristics and formulation of the pesticide product and must be adequate to protect human health and the environment. (See §156.156(b))

The options are:

- i. For pesticides that require dilution prior to application, the following statement can be used: “To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.”
- ii. A procedure developed by the registrant for that product;
- iii. Standard industry practices for refillable containers; or
- iv. Any other statement the registrant considers appropriate and EPA accepts.

- v. For seed treatment products in rigid, nonrefillable containers, EPA has approved the following alternative rinsing instructions that are generally added by amendment, not notification:
To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of 1/4 of the container volume. Replace and tighten closure. Agitate vigorously or recirculate the rinsate with a pump for at least 2 minutes, ensuring that the rinsate rinses the walls of the container. Empty the rinsate into application equipment or rinsate collection system, for later use or disposal. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water.

2e. Instructions on how to return or recycle/dispose of refillable containers should be on refillable containers.

The options for the return of **refillable containers** are:

- i. When empty, return to point of sale.
- ii. Call 1-800-XXX-XXXX for instructions on returning the empty container.
- iii. Any other statement reviewed and approved by EPA.

The options for disposal of **refillable containers** depends on the product and type of container.

One example is:

...or puncture or dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

See Tables C1 through C15 below for appropriate disposal instructions.

VII. Multiple container handling statements on one label

Each pesticide product must bear storage and disposal statements appropriate for its container. The registrant may submit separate labels for each container type and/or size, or may submit a single label with alternative storage and disposal statements. A label submitted for EPA review that bears multiple statements must indicate the circumstances in which each statement would appear on a final container label. For example, a label may indicate in italics and/or brackets that one section of the container handling and disposal instructions are for plastic containers with a capacity of 5 gallons or less while another section is for plastic containers greater than 5 gallons. The proposed labels will be reviewed by the appropriate EPA Product Manager or the Notification Team and approved if acceptable.

Example of Container Handling Instructions for Multiple Container Types, Sizes and Uses*

Container Handling

(For Residential uses)

Nonrefillable container. Do not reuse or refill this container. If empty: Offer for recycling if available or discard in a sanitary landfill. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

(For Commercial Uses)

For plastic containers less than or equal to 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 ¼ 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

For plastic containers greater than 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

**This example is for a dilutable product, distributed or sold in a rigid, nonrefillable container.*

Preferably, a label that appears on or is securely attached to the immediate container will have instructions only for that container. However, it may be acceptable for a pesticide product label to have container handling/container disposal instructions for multiple container types in which that product can be sold, provided that the presentation of the instructions is sufficiently clear to the end user. The end user must be able to read, understand, and identify which instructions to use under customary conditions of purchase and use, and not detract from other label provisions. If an end user cannot tell which set of container handling/container disposal instructions to follow, the pesticide would be misbranded.

Some labels have alternative handling/disposal statements that were approved under the assumption that end users knew that 1- and 2.5-gallon containers are not ordinarily intended to be refillable. Thus, those labels did not specifically identify the containers as non-refillable and did not specifically exclude 1- and 2.5-gallon containers from the refillable container instructions. However, in order to facilitate the use of 1- and 2.5-gallon refillable containers in the future, EPA intends to ask registrants to revise these labels to identify whether containers are refillable or non-refillable when other label changes are proposed. During the review of future label amendments, EPA will also look for situations and ask for clarification where multiple handling/disposal instructions might be confusing and appear to apply to only one container type and/or size.

ATTACHMENT A

Pesticide Storage Statements for Products with Certain Active Ingredients

Historically, EPA has developed specific storage instructions for certain active ingredients. Table 2 below shows some examples. However, these *may not be the complete storage instructions*. Registrants should check with EPA Product Managers and follow the guidance provided in this chapter for the complete the storage instructions. Examples of requirements that may not be provided in Table 2 for all active ingredients include, but are not limited to:

- All instructions must appear under the heading “STORAGE AND DISPOSAL”.
- Products sold for non-residential use must have the statement: “Do not contaminate water, food, or feed by storage or disposal.”
- Products distributed or sold in nonrefillable containers must have, and refillable containers are suggested to have, a subheading under the heading “STORAGE AND DISPOSAL”. EPA recommends that when making label revisions registrant transition to using “Container Handling”

Although Table 2 contains mostly storage instructions, product disposal and container handling instructions may also be provided for some active ingredients. Registrants should check the information provided in this chapter for the most recent and complete storage and disposal instructions. Statements in bold indicate language added to comply with the regulations at [40 CFR §156.140](#).

Table 2. Preferred Active-Ingredient Specific Pesticide Storage Statements

Active Ingredient	Pesticide Storage Statements ¹³	Source of Statement
Liquid calcium hypochlorite and Liquid sodium hypochlorite	<p>“ Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.”¹⁴</p>	<p><i>PR Notice 84-1 & errata sheet, 40 CFR 156.140, and PR Notice 2007-4</i></p>

¹³ Not all instructions provided in this table are the complete storage and disposal instructions required for the active ingredient shown.

¹⁴ See Attachment D for a sample of complete container handling instructions for calcium hypochlorite (solid and liquid) and liquid sodium hypochlorite. Also, the last sentence was revised from “should be diluted” to “must be diluted”. The Agency recommends making this change during label amendments or other actions submitted after Chapter 13 is posted on the web site.

Active Ingredient	Pesticide Storage Statements ¹³	Source of Statement
Solid calcium hypochlorite	<p>"Keep this product dry in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. In case of decomposition, isolate container (if possible) and flood area with large amounts of water to dissolve all materials before discarding this container."¹⁵</p>	<p>PR Notice 84-1 & errata sheet, 40 CFR 156.140, and PR Notice 2007-4</p>
Etridiazole	<p>Manufacturing use products must contain the statement "This product is corrosive to steel and many other metals. Do not transport or store in unlined metal containers."</p> <p><i>(Note: these statements take precedence over the storage guidelines in the PR Notice for manufacturing use products only.)</i></p>	<p>PR Notice 84-1</p>
Methyl bromide and Methyl bromide plus 2% or less chloropicrin	<p>"Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Do not contaminate water, food, or feed by storage.</p> <p>Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured.</p> <p>Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.</p> <p>When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders."</p>	<p>PR Notice 84-5</p>

¹⁵ See Attachment D for a sample of complete Storage and Disposal instructions for calcium hypochlorite (solid and liquid) and liquid sodium hypochlorite.

Active Ingredient	Pesticide Storage Statements ¹³	Source of Statement
Aluminum phosphide and Magnesium phosphide	"Not for use or storage in or around inhabited areas. Protect from moisture, open flames, and heat. Store in a dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Store container away from all liquids. Store so as to minimize hazards of tipping, spilling or accidental puncturing of the container. Keep container tightly closed when not in use. Do not contaminate water, food, or feed by storage or disposal."	<i>PR Notices 84-5 and 84-1</i>
Chloropicrin	"Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Do not contaminate water, food, or feed by storage or disposal. Persons moving or handling containers should wear protective clothing. Open container only in a well-ventilated area wearing protective clothing, and respiratory protection if necessary."	<i>PR Notice 84-5</i>
Sodium cyanide	"Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Store container away from all liquids. Store so as to minimize hazards of tipping, spilling or accidental puncturing of the container. Keep container tightly closed when not in use. Do not contaminate water, food, or feed by storage or disposal."	<i>PR Notice 84-5</i>
Ethylene oxide	<p>"Do not contaminate water, food, or feed by storage. Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area.</p> <p>Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured.</p> <p>Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.</p> <p>When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders."</p>	<i>PR Notice 84-5</i>

<p>Sulfuryl fluoride¹⁶</p>	<p>" Storage and Disposal Do not contaminate water, food, or feed by storage or disposal.</p> <p>Pesticide Storage Store in dry, cool, well ventilated area under lock and key. Post as a pesticide storage area. If the storage area is in an occupied building, the storage area must have either 1) a forced air ventilation system that meets required local ordinances for the storage of hazardous materials and operates continuously; or 2) be equipped with a permanently mounted and properly maintained and functioning sulfuryl fluoride monitoring device designed to alert occupants of the building if sulfuryl fluoride in the air of the storage area is greater than 1 ppm. Store cylinders upright, secured to a rack or wall to prevent tipping.</p> <p>Pesticide Handling: Cylinders must not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding beyond that which would normally occur when moving cylinders. Do not transport any cylinders in closed vehicles where they occupy the same common airspace as personnel. Transport securely only in an upright position.</p> <p>Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to supplier. Only the registrant is authorized to refill cylinders. Do not use cylinder for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders.</p> <p>Leak Procedures: Evacuate immediate area of leak. Use a NIOSH or MSHA approved positive pressure self-contained breathing apparatus (SCBA, not SCUBA) or combination air-supplied/SCBA respirator, such as manufactured by Ranger, Survivair, Scott, or MSA, for entry into affected areas to correct problem. Move leaking or damaged cylinder outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Do not permit entry into leakage area by unprotected persons until concentration of fumigant in the breathing zone (areas within the structure where individuals typically stand, sit or lie down) is determined to be 1 part per million (ppm) or less, as determined by a detection device with sufficient sensitivity such as an INTERSCAN, MIRAN [SapphiRe] or Spectros ExplorIR gas analyzers. For more detailed information on the source and use of air monitoring devices or respirators, consult the Vikane Gas Fumigant Structural Fumigation Manual.</p> <p>Cylinder and Product Disposal: Refillable container. Refill this container with pesticide only. Do not use this container for any other purpose. Promptly return all empty cylinders to your distributor of this product. Follow proper cylinder handling directions above. Pesticide wastes may be hazardous. Improper disposal of excess pesticide is a violation of</p>	<p><i>PR Notice 84-5</i></p>
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¹⁶ The language for sulfuryl fluoride is suggested, rather than preferred, by EPA. Storage instructions in PR Notice 84-5 were updated by RD on 6/5/12 to bring it up to compliance with PR Notice 2007-4.

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	<p>Federal law. If these wastes cannot be disposed of by use according to label instructions, consult your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.</p>	
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ATTACHMENT B

Storage Statements Suggested by EPA

The following are examples of storage statements that registrants may use for products with active ingredients not listed in *Attachment A*. EPA provided these suggested statements as a result of a recommendation from the State FIFRA Issues Research and Evaluation Group. Some of these may not be appropriate for all pesticide products.

“Always store pesticides in the original container. If a leaky container must be contained within another, mark the outer container to identify the contents.”

“Storage areas must be locked and secure from vandalism, with precautionary signs posted.”

“The storage area must be dry, well-lit, and well-ventilated. Keep pesticide storage areas clean. Clean up any spills promptly.”

“Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies.”

“Protect pesticide containers from extreme heat and cold.”

“Store herbicides, insecticides and fungicides in separate areas within the storage unit.”

“Place liquid formulations on lower shelves and dry formulations above.”

“Maintaining a spill kit and fire extinguisher on hand and having emergency phone numbers posted will allow you to be prepared for emergencies.”

“If spill cleanup PPE is stored nearby, but outside the pesticide storage area, it will be accessible when needed.”

ATTACHMENT C

Container Handling Instructions by Container Type

The following tables show the full set of appropriate container handling instructions by different container types. In each table, the first column describes which of the statements, if any, are required and under what conditions. The second column describes the general category of the statements, using the categories described in Unit IV.C of Chapter 13. The last columns on the right show the specific language to include on the pesticide label. Areas shaded in gray indicate that the statement it is not required for that container type. In a situation where a specific container type is not listed, see the appendices to PR Notice [2007-4](#) and/or one of the following tables below for guidance: Table A7 (for other rigid nonrefillable containers); Table A8 (for other non-rigid nonrefillable containers); or Table B5 (for other refillable containers).

List of Tables

Table	Container Type
C1	NONREFILLABLE METAL Containers (non-aerosol)
C2	NONREFILLABLE AEROSOL CANS
C3	NONREFILLABLE PLASTIC Containers
C4	NONREFILLABLE PAPER and PLASTIC BAGS
C5	NONREFILLABLE FIBER DRUMS with LINERS
C6	NONREFILLABLE FOIL OUTER POUCHES of WATER SOLUBLE PACKETS (WSP)
C7	OTHER <u>RIGID</u> NONREFILLABLE Containers
C8	OTHER <u>NON-RIGID</u> NONREFILLABLE Containers
C9	REFILLABLE METAL Containers (non-aerosol)
C10	REFILLABLE PLASTIC Containers
C11	REFILLABLE FIBER DRUMS WITH LINERS
C12	REFILLABLE COMPRESSED GAS CYLINDERS
C13	OTHER REFILLABLE CONTAINERS

Table C1: Container Handling Statements for NONREFILLABLE METAL Containers (non-aerosol)

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required	a. Subheading	[a] "Container Handling" [<i>or other appropriate subheading</i>]
Required unless product and/or container type are exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter) Use [b] followed by one option from c1, c2, c3 or c4	b. Container type and c. Reuse limitations of container	[b] "Nonrefillable container. "
		[c1] "Do not reuse or refill this container."
		[c2] "Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state."
		[c3] "Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container." (<i>May use if product is ready-to-use and directions for use allow a different product [similar but concentrated] to be poured into container and diluted by end user.</i>)
Required for non-residential use only if product is dilutable Use one option from d1, d2 or d3, followed	d. When to clean	[d1] "Clean container promptly after emptying."
		[d2] "Triple rinse or pressure rinse container (or equivalent) promptly after emptying." (<i>Registrants must give instructions for triple rinsing immediately followed by pressure rinsing instructions</i>)
		[d3] "Triple rinse container (or equivalent) promptly after emptying."

Table C1: Container Handling Statements for NONREFILLABLE METAL Containers (non-aerosol)

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>by one option from e1, e2, e3 or e4</p> <p><i>A "dilutable" product is mixed with a diluent by the end user before use or application</i></p> <p><i>Registrants who wish to use a diluent other than water must contact EPA for approval</i></p>	<p>e. How to clean</p>	<p>[e1] For liquid dilutables in containers <u>small enough to shake</u> (5 gallons or less)</p> <p>"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 ¼ 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."</p> <hr/> <p>[e2] For solid dilutables in containers small <u>enough to shake</u> (5 gallons or 50 pounds or less)</p> <p>"Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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."</p> <hr/> <p>[e3] For any dilutable pesticides in <u>containers too large to shake</u> (larger than 5 gallons or 50 pounds)</p> <p>"Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times."</p> <hr/> <p>[e4] For <u>antimicrobial products with public health claims for dilutable pesticide in rigid, nonrefillable containers</u>]:</p> <p>"Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times."</p>

Table C1: Container Handling Statements for NONREFILLABLE METAL Containers (non-aerosol)

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p><i>e5 and e6 are required if d2 is used above, otherwise, it is optional to add e5 or e6 after e1, e3 or e4</i></p>		<p><u>[e5] For liquid dilutable pesticides</u></p> <p>“Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.”</p> <p><u>[e6] For solid dilutable pesticides</u></p> <p>“Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.”</p>
<p>Required</p> <p>Use one option from f1, f2 or f3</p>	<p>f. Recycle + dispose</p>	<p>[f1] “Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.”</p> <p>[f2] “Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.”</p> <p>[f3] “Then offer for reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.”</p>
<p>Required anywhere on label or on container</p>	<p>g. Batch code</p>	<p>A lot number, or other code used by the registrant or producer to identify the batch.</p>

Table C2: Container Handling Statements for NONREFILLABLE AEROSOL CANS

Registrants may request a waiver or modification from EPA for any of the requirements. Please note that while these statements are from PR notices that address household or residential use products, the Agency is recommending the same statements for all other aerosol products.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Required</p> <p>Exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter)</p> <p>Not required because product is not dilutable (Also not required for residential uses or products that are gases)</p>	<p>a. Subheading</p> <p>b. Container type</p> <p>and</p> <p>c. Reuse limitations of container</p> <p>d. When to clean</p> <p>and</p> <p>e. How to clean</p>	<p>[a] "Container Handling" [or other appropriate subheading]</p>
<p>Required Use f1 or f2</p>	<p>f. Recycle or dispose and pesticide disposal</p>	<p>[f1] Do Not Puncture or Incinerate! If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions."</p> <p>[f2] "Do Not Puncture or Incinerate! If empty: This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the country.¹⁷ Before offering for recycling, empty the can by using the product according to the label (DO NOT PUNCTURE!). If recycling option is not available, discard in the trash. If partly filled: Call your local solid waste agency for disposal instructions."</p>
<p>Required anywhere on label or on container</p>	<p>g. Batch code</p>	<p>A lot number, or other code used by the registrant or producer to identify the batch.</p>

¹⁷ Although the sentence "At present, there are only a few such centers in the country." is consistent with PR Notice 94-2, the Agency recognizes this may not longer be the case. Therefore, it is acceptable for registrants to omit this sentence.

Table C3: Container Handling Statements for NONREFILLABLE PLASTIC Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required	a. Subheading	[a] "Container Handling" [or other appropriate subheading]
<p>Required unless product and/or container type are exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter)</p> <p>Use b followed by one option from c1, c2, c3 or c4</p>	b. Container type	[b] "Nonrefillable container."
	c. Reuse limitations of container	[c1] "Do not reuse or refill this container."
		[c2] "Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state."
		[c3] "Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container." (May use if product is ready-to-use and directions for use allow a different product [similar but concentrated] to be poured into container and diluted by end user.)
<p>Required for non-residential /household use only if the product is dilutable</p> <p>Use one option from d1, d2 or d3 followed by one option from e1, e2, e3 or e4</p>	d. When to clean	[d1] "Clean container promptly after emptying."
		<p>[d2] "Triple rinse or pressure rinse container (or equivalent) promptly after emptying." (Registrants must have instructions for triple rinsing immediately followed by pressure rinsing instructions.)</p> <p>[d3] "Triple rinse container (or equivalent) promptly after emptying."</p>
<i>Registrants who want</i>	e. How to clean	[e1] For liquid dilutables in containers <u>small enough to shake</u> (5 gallons or less)

Table C3: Container Handling Statements for NONREFILLABLE PLASTIC Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p><i>to use a diluent other than water must first get EPA approval</i></p> <p><i>A "dilutable" product is mixed with a diluent by the end user before use or application</i></p>		<p>"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 ¼ 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."</p> <p>[e2] For solid dilutables in containers small <u>enough to shake</u> (5 gallons or 50 pounds or less)</p> <p>"Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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."</p> <p>[e3] For any dilutable pesticide in <u>containers too large to shake</u> (larger than 5 gallons or 50 pounds)</p> <p>"Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times."</p> <p>[e4] For <u>antimicrobial products with public health claims for dilutable pesticide in rigid, nonrefillable containers</u>]:</p> <p>"Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times."</p>

Table C3: Container Handling Statements for NONREFILLABLE PLASTIC Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<i>Not required, but if d1 or d3 is used, registrants may add e5 or e6 after e1, e2, e3 or e4</i>		<p>[e5] For liquid dilutable pesticides</p> <p>"Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip."</p> <p>[e6] For solid dilutable pesticides</p> <p>"Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip."</p>
<p>Required</p> <p>Use one option from f1, f2, f3 or f4</p>	<p>f. Recycle + dispose</p>	<p>[f1] "Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration."</p> <p>[f2] "Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration."</p> <p>[f3] "Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact [a pesticide container recycling organization] at [phone number] or [website], or puncture and dispose of in a sanitary landfill, or by incineration."</p> <p>[f4] "Then offer for reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration."</p>
<i>Not required, but registrants may add f5, f6 or f7 after f1, f2, f3 or f4</i>		<p>[f5] "...or if allowed by state and local authorities, by burning. If burned, stay out of smoke."</p> <p>[f6] "...Do not burn, unless allowed by state and local ordinances."</p>

Table C3: Container Handling Statements for NONREFILLABLE PLASTIC Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required anywhere on label or on container	g. Batch code	<p>[f7] ...“In most states, burning is not allowed.”</p> <p><i>A lot number, or other code used by the registrant or producer to identify the batch.</i></p>

Table C4: Container Handling Statements for NONREFILLABLE PAPER and PLASTIC BAGS

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required	a. Subheading	[a] “Container Handling” [<i>or other appropriate subheading</i>]
<p>Required <i>unless</i> product and/or container type are exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter)</p> <p>Use b followed by one option from c1 or c2</p>	<p>b. Container type</p> <p>c. Reuse limitations of container</p>	<p>[b] “Nonrefillable container. ”</p> <p>[c1] “Do not reuse or refill this container.”</p> <p>[c2] “Do not reuse or refill this container unless allowed by the directions for use.” (<i>May use if product is ready-to-use, its directions for use allow it to be refilled with same pesticide, and EPA approves use of this language.</i>)</p>

Table C4: Container Handling Statements for NONREFILLABLE PAPER and PLASTIC BAGS

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Not required because the nonrefillable container is not rigid <i>(Also not required for residential uses or products that are gases)</i></p>	<p>d. When to clean</p>	
<p>Required except for residential use (PRN 83-3) Use [e1]</p>	<p>e. How to clean and Recycle +dispose</p>	<p>[e1] "Completely empty bag into application equipment, then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration."</p>
<p><i>Not required, but registrants may add e2, e3 or e4 after e1</i></p>		<p>[e2] ..."or if allowed by state and local authorities, by burning. If burned, stay out of smoke." [e3] ..."Do not burn, unless allowed by state and local ordinances." [e4] ..."In most states, burning is not allowed."</p>
<p>Required anywhere on label or on container</p>	<p>f. Batch code</p>	<p>A lot number, or other code used by the registrant or producer to identify the batch.</p>

Table C5: Container Handling Statements for NONREFILLABLE FIBER DRUMS with LINERS

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Required</p> <p>Required unless product and/or container type are exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter)</p> <p>Use [b] followed by one option from c1, c2, c3 or c4</p>	<p>a. Subheading</p> <p>b. Container type</p> <p>c. Reuse limitations of container</p>	<p>[a] "Container Handling" [or other appropriate subheading]</p> <p>[b] "Nonrefillable container. "</p> <p>[c1] "Do not reuse or refill this container."</p> <p>[c2] "Do not reuse this container to hold materials other than pesticides or dilutable pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state."</p> <p>[c3] "Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container." (May use if product is "ready-to-use" and directions for use allow a different product [similar but concentrated] to be poured into container and diluted by end user.)</p> <p>[c4] "Do not reuse or refill this container unless allowed by the directions for use." (May use if product is ready-to-use, directions for use allow it to be refilled with same pesticide, and EPA approves use of this language.)</p>
<p>Not required because the nonrefillable container is not rigid</p>	<p>d. When to clean</p>	
<p>Required Use [e]</p> <p>Required Use f1 followed by f5</p> <p><i>Not required, but registrant may add f2, f3 or f4 in between f1 and f5</i></p>	<p>e. How to clean</p> <p>f. Recycle + dispose</p>	<p>[e] "Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment."</p> <p>[f1] "then offer for recycling if available or dispose of in a sanitary landfill or by incineration"...</p> <p>[f2] "...or if allowed by state and local authorities, by burning. If burned, stay out of smoke."</p> <p>[f3] "...Do not burn, unless allowed by state and local ordinances."</p> <p>[f4] "...In most states, burning is not allowed."</p>

		[f5] "If drum is contaminated and cannot be reused*, dispose of it in the manner required for its liner." (* A registrant may replace this phrase with one indicating whether & how fiber drum may be reused.)
Required anywhere on label or on container	g. Batch code	A lot number, or other code used by the registrant or producer to identify the batch.

Table C6: Container Handling Statements for NONREFILLABLE FOIL OUTER POUCHES of WATER SOLUBLE PACKETS (WSP)

Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required	a. Subheading	[a] "Container Handling" [or other appropriate subheading]
Exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter)	b. Container type and c. Reuse limitations of container	
Not required because the nonrefillable container is <u>not rigid</u>	d. When to clean and e. How to clean	
Required Use f	f. Recycle + dispose	[f] "Offer foil pouch for recycling if available or dispose of empty pouch in the trash as long as WSP is unbroken."
Required anywhere on label or on container	g. Batch code	A lot number, or other code used by the registrant or producer to identify the batch.

Table C7 Container Handling Statements for OTHER RIGID NONREFILLABLE Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles not already exempted by **40 CFR §152.25(a)** are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required	a. Subheading	[a] "Container Handling" [or other appropriate subheading]
<p>Required unless the product and/or container type are exempt per §156.140(a)(5) (See unit IV.C.1a or Table 1 of this chapter)</p> <p>Use [b] followed by one option from c1, c2, c3 or c4</p>	b. Container type	[b] "Nonrefillable container."
	c. Reuse limitations of container	[c1] "Do not reuse or refill this container."
		[c2] "Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state."
		[c3] "Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container." <i>(May use if product is ready-to-use, directions for use allow a different product [similar but concentrated] to be poured into container and diluted by end user.)</i>
<p>Required for uses other than residential/house-hold use only if the product is dilutable</p> <p>Use one option from d1, d2 or d3</p>	d. When to clean	[d1] "Clean container promptly after emptying."
		[d2] "Triple rinse or pressure rinse container (or equivalent) promptly after emptying." <i>(Registrants must have instructions for triple rinsing immediately followed by pressure rinsing instructions.)</i>
		[d3] "Triple rinse container (or equivalent) promptly after emptying."

Table C7 Container Handling Statements for OTHER RIGID NONREFILLABLE Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles not already exempted by **40 CFR §152.25(a)** are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Use one option from d1, d2 or d3 followed by one option from e1, e2, e3 or e4</p> <p><i>A "dilutable" product is mixed with a diluent by the end user before use or application</i></p> <p><i>Registrants who want to use a diluent other than water must first get EPA approval</i></p>	<p>e. How to clean</p>	<p>[e1] For liquid dilutables in containers <u>small enough to shake</u> (5 gallons or less)</p> <p>"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 ¼ 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."</p>
		<p>[e2] For solid dilutables in containers <u>small enough to shake</u> (5 gallons or 50 pounds or less)</p> <p>"Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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."</p> <p>[e3] For any dilutable pesticides in <u>containers too large to shake</u> (larger than 5 gallons or 50 pounds)</p> <p>"Triple Rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times."</p>

Table C7 Container Handling Statements for OTHER RIGID NONREFILLABLE Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles not already exempted by **40 CFR §152.25(a)** are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
		<p>[e4] For <u>antimicrobial products with public health claims for dilutable pesticide in rigid, nonrefillable containers</u>:</p> <p>"Triple rinse as follows: Fill container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times."</p>
<p><i>Not required but if using d1 or d2, registrants may add e5 or e6 after e1, e2, e3 or e4</i></p>		<p>[e5] For <u>liquid dilutable pesticides</u></p> <p>"Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip."</p> <p>[e6] For <u>solid dilutable pesticides</u></p> <p>"Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip."</p>
<p>Required Use one option from f1, f2 or f3</p>	<p>f. Recycle, recondition or dispose</p>	<p>[f1] "Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities."*</p> <p>[f2] "Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities."*</p> <p>[f3] "Then offer for reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities."*</p>
<p>Required anywhere on label or on container</p>	<p>g. Batch code</p>	<p>A lot number, or other code used by the registrant or producer to identify the batch.</p>

Table C8 Container Handling Statements for OTHER NON-RIGID NONREFILLABLE Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Required	a. Subheading	[a] "Container Handling" <i>[or other appropriate subheading]</i>
Required unless the product and/or container type are exempt per §156.140(a)(5) <i>[See unit IV.C.1a or Table 1 of this chapter]</i> Use [b] followed by one option from c1, c2, c3 or c4	b. Container type	[b] "Nonrefillable container."
	c. Reuse limitations for container	[c1] "Do not reuse or refill this container."
		[c2] "Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state."
		[c3] "Do not reuse or refill this container unless the directions for use allow a different (concentrated) product to be diluted in the container." <i>(May use if ready-to-use and directions for use allow a different product (similar but concentrated) to be poured into container and diluted by end user.)</i>
Not required because the nonrefillable container is <u>not rigid</u> . <i>(Also not required for residential use)</i> (§156.146)	d. When to clean	
May be required except for residential/household use (PRN 83-3)	e. How to clean	See the "How to clean" instructions for paper or plastic bags and fiber drums with liners for potentially applicable cleaning or emptying instructions from PR Notice 83-3 .

Table C8 Container Handling Statements for OTHER NON-RIGID NONREFILLABLE Containers

Plant-incorporated protectants are only subject to the requirement for disposal instructions. Pesticides distributed only in transport vehicles and pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Required</p> <p>Use one option from f1, f2 or f3</p>	<p>f. Recycle, recondition or dispose</p>	<p>[f1] "Offer for recycling if available or dispose of in a sanitary landfill or by other procedures approved by state and local authorities."*</p> <p>[f2] "Offer for recycling if available or reconditioning if appropriate or dispose of in a sanitary landfill or by other procedures approved by state and local authorities."*</p> <p>[f3] "Offer for reconditioning if appropriate or dispose of in a sanitary landfill or by other procedures approved by state and local authorities."*</p> <p><i>*Note that "or by other procedures approved by state and local authorities" is a basic container disposal statement that is likely to apply to many types of containers. For other options, see the specific container disposal statements for nonrefillable metal, plastic, paper/plastic bags, and fiber drums with liners.</i></p>
<p>Required anywhere on label or on container</p>	<p>g. Batch code</p>	<p>A lot number, or other code used by the registrant or producer to identify the batch.</p>

Table C9 Container Handling Statements for REFILLABLE METAL Containers (non-aerosol)

Pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) and pesticides distributed only in transport vehicles are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Not required but recommended	a. Subheading	[a] "Container Handling" <i>[or other appropriate subheading]</i>
Required except for plant-incorporated protectants Use [b] followed by c1 or c2	b. Container type	[b] "Refillable container."
	c. Reuse limitations of container	[c1] "Refill this container with pesticide only. Do not reuse this container for any other purpose." [c2] "Refill this container with <i>[common chemical name]</i> only. Do not reuse this container for any other purpose."
Required except for products that are gases and for residential/household use products Use d1 or d2 followed by one option from e1, e2, e3 or e4, where the statements from [d] and [e] must be consistent	d. Who is responsible for cleaning and when	[d1] "Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal"...
		[d2] "Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal"...
	e. How to clean	[e1] <i>[The refilling residue removal procedure developed by the registrant for the pesticide product.*]</i>
		[e2] <i>[Standard industry practices for cleaning refillable containers.*]</i>
		[e3] <i>[For pesticides that require dilution prior to application, the following statement*:]</i> ..."empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times."
[e4] <i>[Any other statement the registrant considers appropriate.*]</i>		
* <i>The cleaning procedure must be appropriate for the characteristics and formulation of the pesticide product and must be adequate to protect human health and the environment.</i>		
Not required but recommended	f. Return, recycle or disposal	[f1] "Return to point of sale."
		[f2] <i>[Any other return statement the registrant considers appropriate.]</i>

Table C9 Container Handling Statements for REFILLABLE METAL Containers (non-aerosol)

Pesticidal articles that are not already exempted by [40 CFR §152.25\(a\)](#) and pesticides distributed only in transport vehicles are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Use f1 or f2 followed by f3 or f4</p>		<p>[f3] ...“or offer for recycling if available or reconditioning if appropriate”... or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.”</p> <p>[f4] ... “or offer for recycling if available”... “or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.”</p>

Table C10 Container Handling Statements for REFILLABLE PLASTIC Containers

Pesticidal articles that are not exempted by [40 CFR §152.25\(a\)](#) and pesticides distributed only in transportation vehicles are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Not required but recommended	a. Subheading	[a] "Container Handling" <i>[or other appropriate subheading]</i>
Required except for plant-incorporated protectants Use [b] followed by c1 or c2	b. Container type	[b] "Refillable container."
	c. Reuse limitations of container	[c1] "Refill this container with pesticide only. Do not reuse this container for any other purpose."
[c2] "Refill this container with <i>[common chemical name]</i> only. Do not reuse this container for any other purpose."		
Required except for products that are gases or residential/ household use products Use d1 or d2 followed by one option from e1, e2, e3 or e4, where the statements from [d] and [e] must be consistent	d. Who is responsible for cleaning and when	[d1] "Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal,"
		[d2] "Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal,"
	e. How to clean	[e1] <i>[The refilling residue removal procedure developed by the registrant for the pesticide product.*]</i>
		[e2] <i>[Standard industry practices for cleaning refillable containers.*]</i>
[e3] <i>[For pesticides that require dilution prior to application, the following statement:.*]</i> "Empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times."		
[e4] <i>[Any other statement the registrant considers appropriate.*]</i>		

Table C10 Container Handling Statements for REFILLABLE PLASTIC Containers

Pesticidal articles that are not exempted by [40 CFR §152.25\(a\)](#) and pesticides distributed only in transportation vehicles are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Not required but recommended</p> <p>Use f1 or f2 followed by f3 or f4, then f5</p>	<p>f. Return, recycle or disposal</p>	<p><i>* The cleaning procedure must be appropriate for the characteristics and formulation of the pesticide product and must be adequate to protect human health and the environment.</i></p> <p>[f1] "Return to point of sale."</p> <p>[f2] <i>[Any other return statement the registrant considers appropriate.]</i></p> <p>[f3] "Then offer for recycling if available"...</p> <p>[f4] "Then offer for recycling if available or reconditioning if appropriate"...</p> <p>[f5] "...or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved state and local authorities."</p>

Table C11 Container Handling Statements for REFILLABLE FIBER DRUMS WITH LINERS

Pesticidal articles that are not exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Not required but recommended	a. Subheading	[a] "Container Handling" [or other appropriate subheading]
Required except for plant-incorporated protectants Use [b] followed by c1 or c2	b. Container type	[b] "Refillable container."
	c. Reuse limitations of container	[c1] "Refill this container with pesticide only. Do not reuse this container for any other purpose." [c2] "Refill this container with [<i>common chemical name</i>] only. Do not reuse this container for any other purpose."
Required except for products that are gases and for residential/household use products Use d1 or d2 followed by one option from e1, e2, e3 or e4, where the statements from [d] and [e] must be consistent	d. Who is responsible for cleaning and when and e. How to clean	[d1] "Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal"...
		[d2] "Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal"...
		[e1] [<i>The refilling residue removal procedure developed by the registrant for the pesticide product.*</i>]
		[e2] [<i>Standard industry practices for cleaning refillable containers.*</i>]
		[e3] "Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment or a mix tank."
		[e4] [<i>Any other statement the registrant considers appropriate.*</i>]
		* <i>The cleaning procedure must be appropriate for the characteristics and formulation of the pesticide product and must be adequate to protect human health and the environment.</i>

Table C11 Container Handling Statements for REFILLABLE FIBER DRUMS WITH LINERS

Pesticidal articles that are not exempted by [40 CFR §152.25\(a\)](#) are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Not required but recommended</p> <p>Use f1 or f2, followed by f3 or f4, followed by f5 or f6, then f9</p> <p><i>May insert f5 or f6 in front of f9</i></p>	<p>f. Return, recycle or disposal</p>	<p>[f1] "Return to point of sale."</p> <p>[f2] <i>[Any other return statement the registrant considers appropriate.]</i></p> <p>[f3] "or offer for recycling if available"...</p> <p>[f4] "or offer for recycling if available or reconditioning if appropriate"...</p> <p>[f5]..."or dispose of in a sanitary landfill, or by incineration, or if allowed by local and state authorities, by burning. If burned, stay out of smoke." If drum is contaminated and cannot be reused*, dispose of it in the manner required for its liner.</p> <p>[f6] ..."or dispose of in a sanitary landfill, or by incineration." If drum is contaminated and cannot be reused*, dispose of it in the manner required for its liner.</p> <p>[f7] "Do not burn unless allowed by state and local ordinances."</p> <p>[f8] "In most states, burning is not allowed."</p> <p>[f9] "If drum is contaminated and cannot be reused*, dispose of it in the manner required for its liner.</p> <p><i>*A registrant may replace this phrase with one indicating whether and how the fiber drum may be reused.</i></p>

Table C12 Container Handling Statements for REFILLABLE COMPRESSED GAS CYLINDERS

Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements for REFILLABLE COMPRESSED GAS CYLINDERS	
Not required but recommended	a. Subheading	[a] "Container Handling" [or other appropriate subheading]	
Required Use [b] followed by c1 or c2	b. Container type	[b] "Refillable container."	
	c. Reuse limitations	[c1] "Refill this container with pesticide only. Do not reuse this container for any other purpose."	[c2] "Refill this container with [<i>common chemical name</i>] only. Do not reuse this container for any other purpose."
Contact the EPA Product Manager to determine whether cleaning instructions are needed	d. Who is responsible for cleaning and when and e. How to clean	To be determined on a product-specific basis.	
Required Use f1 or f2	f. Return, recycle or disposal	[f1] "Return empty cylinder for reuse."	[f2] [<i>Other wording similar to f1.</i>]

Table C13 Container Handling Statements for OTHER REFILLABLE Containers

Pesticidal articles that are not exempted by [40 CFR §152.25\(a\)](#) and pesticides distributed only in transport vehicles are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
Not required but recommended	a. Subheading	[a] "Container Handling" [or other appropriate subheading]
Required except for plant-incorporated protectants	b. Container type	[b] "Refillable container."
	c. Reuse limitations	[c1] "Refill this container with pesticide only. Do not reuse this container for any other purpose." [c2] "Refill this container with [<i>common chemical name</i>] only. Do not reuse this container for any other purpose."
Use [b] followed by c1 or c2		
Required except for products that are gases and for products that are residential/household use products	d. Who is responsible for cleaning and when	[d1] "Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal,"
		[d2] "Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal,"
Use d1 or d2 followed by one option from e1, e2, e3, or e4, where the statements from [d] and [e] must be consistent	e. How to clean	[e1] [<i>The refilling residue removal procedure developed by the registrant for the pesticide product.*</i>]
		[e2] [<i>Standard industry practices for cleaning refillable containers.*</i>]
		[e3] [<i>For pesticides that require dilution prior to application, the following statement:*</i>] "To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times."
		[e4] [<i>Any other statement the registrant considers appropriate.*</i>] * <i>The cleaning procedure must be appropriate for the characteristics and formulation of the pesticide product and must be adequate to protect human health and the environment.</i>

Table C13 Container Handling Statements for OTHER REFILLABLE Containers

Pesticidal articles that are not exempted by *40 CFR §152.25(a)* and pesticides distributed only in transport vehicles are exempt from all requirements below. Registrants may request a waiver or modification from EPA for any of the requirements.

Are the Statements Required?	Type of Statement	Specific Statements to Include on the Label
<p>Not required but recommended</p> <p>Use f1 or f2 followed by f3 or f4, then f5</p>	<p>f. Return, recycle or disposal</p>	<p>[f1] "Return to point of sale."</p> <p>[f2] [Any other return statement the registrant considers appropriate.]</p> <p>[f3] "Or offer for recycling if available"...</p> <p>[f4] "Or offer for recycling if available or reconditioning if appropriate"...</p> <p>[f5] ..."or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities."</p> <p>[f5] ..."or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities."</p> <p>[f5] ..."or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities."</p>

**ATTACHMENT D – Sample Storage and Disposal Language for Antimicrobial Pesticides
with (Part I) Liquid Sodium and Calcium Hypochlorites as well as (Part II) Solid Calcium Hypochlorite**

Part I. Products with Liquid Sodium Hypochlorite or Liquid Calcium Hypochlorite¹⁸

For Residential use:

“STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.¹⁹

STORAGE: Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.

PESTICIDE²⁰ DISPOSAL: Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

CONTAINER HANDLING²¹: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

For Institutional/Commercial use:

“STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

STORAGE: Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water.

PESTICIDE DISPOSAL: Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

CONTAINER HANDLING:

[If the container is nonrefillable, use the first line (“Nonrefillable...”), the appropriate rinsing instructions for the container size and the next line (“Offer for...”). If the container is refillable, use the paragraph beginning with “Refillable container.”]

Nonrefillable container. Do not reuse or refill this container.

¹⁸ This sample language has been accepted for a liquid sodium hypochlorite product. However, because there are other options available for cleaning and container disposal instructions, registrants should work with EPA reviewers to determine the most appropriate language for any given product. Also, registrants should use only the instructions that apply to their container type, uses and sizes. For example, if a registrant does not distribute or sell a product in a refillable container, they may omit those instructions. This language should be used as a model for changes made during label amendments or other actions after Chapter 13 is posted on the web site.

¹⁹ Although the Agency has historically required the statement “Do not contaminate water, food, or feed by storage and disposal.” for all products except residential use products, this sentence is required for all residential and non-residential use products with sodium and calcium hypochlorite salts per the errata sheet for PR Notice 84-1.

²⁰ Registrants may request EPA reviewers to replace the word “pesticide” with “product”, especially for products with residential uses. If it were accepted, the same change would also have to be made to “Follow Pesticide Disposal...” in the residue removal instructions. In accordance with PR Notice 2000-5, directions which are necessary for the safe handling of a pesticide product need to be mandatory and not advisory. Therefore, the phrase “should be diluted” needs to be changed to “must be diluted”. The Agency recommends making this change during label amendments or other actions after Chapter 13 is posted on the web site.

²¹ The language that follows “CONTAINER HANDLING” has been revised from the PR Notice 84-1 errata sheet so that it complies with the pesticide container labeling requirements in 40 CFR 156.140 – 156.159.

(For dilutable²² products in containers 5 gallons or less) Clean container promptly after emptying. Triple Rinse as follows: Fill container ¼ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times.

(For dilutable products in containers larger than 5 gallons) Clean container promptly after emptying. Triple Rinse as follows: Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times.

Offer for recycling if available or reconditioning if appropriate or place in trash.

Refillable container. Refill this container with pesticide [or common chemical name] only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Offer container for recycling if available or reconditioning if appropriate or place in trash.”

Part II. Products with Solid Calcium Hypochlorite²³

For Residential use:

“STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.²⁴

STORAGE: Keep this product dry in a tightly closed container when not in use. Store in a cool dry well ventilated area away from heat or open flame. In case of decomposition, isolate container (if possible) and flood area with large amounts of water to dissolve all materials before discarding this container.

PESTICIDE DISPOSAL: Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

CONTAINER HANDLING²⁵: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or place in trash.

²² There is confusion regarding "residential use" vs. "institutional use." PR Notice 84-1 only addresses container storage, pesticide product disposal, and in a couple of cases, pesticide container disposal. It does not address residue removal instructions. It explains that "For purposes of this PR Notice..." when products are distributed or sold in a container in the same sizes for institutional uses as they are for residential uses, the labels may have the same storage and disposal instructions provided in the notice. The requirements for residue removal instructions in §§156.140 through 156.156 were put in place in 2006, well after PR Notice 84-1. Although §156.144 exempts products with residential uses from the requirement to have residue removal instructions, the size of the container is not a factor in determining whether residue removal instructions are required. Furthermore, the definition of "residential use" in §152.5 is: "use of a pesticide directly: (1) On humans or pets, (2) In, on, or around any structure, vehicle, article, surface, or area associated with the household, including but not limited to areas such as non-agricultural outbuildings, non-commercial greenhouses, pleasure boats and recreational vehicles, or (3) In any preschool or day care facility." Therefore, residue removal instructions (a.k.a. "cleaning instructions") are required for non-residential uses distributed or sold in all refillable containers as well as for rigid nonrefillable containers with dilutable products. (*Note: there are some exceptions that can be found in §156.144.*)

²³ The same footnotes provided above apply to these instructions as well.

²⁴ Although the Agency has historically required the statement "Do not contaminate water, food, or feed by storage and disposal." for all products except residential use products, this sentence is required for sodium and calcium hypochlorite salts per the errata sheet for PR Notice 84-1.

²⁵ The language that follows "CONTAINER HANDLING" has been revised from the PR Notice 84-1 errata sheet so that it complies with the pesticide container labeling requirements in 40 CFR 156.140 – 156.159.

For Institutional/Commercial use:

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

STORAGE: Keep this product dry in a tightly closed container when not in use. Store in a cool dry well ventilated area away from heat or open flame. In case of decomposition, isolate container (if possible) and flood area with large amounts of water to dissolve all materials before discarding this container.

PESTICIDE DISPOSAL: Product or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.

CONTAINER HANDLING:

[If the container is nonrefillable, use the first line ("Nonrefillable..."), the appropriate rinsing instructions for the container size and the next line ("Offer for..."). If the container is refillable, use the paragraph beginning with "Refillable container."]

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or reconditioning if appropriate or place in trash.

(For dilutable uses in containers 5 gallons or less) Clean container promptly after emptying. Triple Rinse as follows: Fill container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. **(For dilutable uses in containers larger than 5 gallons)** Clean container promptly after emptying. Triple Rinse as follows: Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times.

Refillable container. Refill this container with pesticide [or common chemical name] only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Follow Pesticide Disposal instructions for rinsate disposal. Repeat procedure two more times. Offer container for recycling if available or reconditioning if appropriate or place in trash."