

SmartLabel User Guide (SLUG) v2.0

The SmartLabel is divided into a Header and Content of Labeling. The Header contains document management information. The Content of Labeling contains the Master Label text, tables, and figures along with data elements for searching and sorting.

How to read the SLUG

- **Label sections**
 - The first bullet for all label sections and subsections is “Text.” This is where the description of the label section is given and guidance is provided as to the type of language to enter and references
 - The bullet “Validation” is the header for proposed validation rules or the English translation of machine readable statements which can be used to identify errors or inconsistencies within the file
 - The bullet “Rendering” is the header for any rendering rules which will be used to render the xml in .xsd format FOR THE EPA REVIEWER. These rules do not necessarily apply to other renderings such as what would be rendered on PPLS. Those rules will be developed in the future
- **Data elements** are embedded under the label section or subsection to which they apply
 - Under the Data Element header:
 - Data Element Description – provides information about the data element, the information being captured, and guidance for the user
 - Data Element Terminology – identifies if a picklist is used to populate the data element. If the data element does not have an associated picklist, “None” is entered
 - Data Element Validation - proposed validation rules or the English translation of machine readable statements which can be used to identify errors or inconsistencies within the file

[Example Label Section]

- Text
- Data Element
 - ◆ Data Element Name
 - Data Element Description
 - Data Element Terminology
 - Data Element Validation
- Validation
- Rendering
- Subsections

Header

The following information is included in the document header:

1 *Document type*

Description

This is the general subject matter of the Master Label

Terminology

DE_Document_Type (e.g., End Use Pesticide Label)

Validation

1.1 There is one document type

2 *Document id*

Description

This is a unique identifier for each version of the document

Terminology

None

Validation

- 2.1 Identifier is a Globally Unique Identifier (GUID)
- 2.2 GUID is unique throughout the document and system

3 Effective time**Description**

This is the date of the changes in the document

Terminology

None

Validation

- 3.1 Date is provided in the format yyyyymmdd

4 Version number**Description**

Provides a sequence to the versions of the document

Terminology

None

Validation

- 4.1 Version number is a whole number > 0
- 4.2 Value is greater than the value of any previously submitted version for the same set id

5 Set id**Description**

This is a unique identifier for the document that remains constant through all versions of the document

Terminology

None

Validation

- 5.1 Identifier is a Globally Unique Identifier (GUID)
- 5.2 Letters are all lower case
- 5.3 GUID is unique throughout the document and system

6 Company name**Description**

This is the company name for the Registrant

Terminology

None

Validation

- 6.1 There is one company name
- 6.2 The name matches the name in the Company Number List

7 Company number**Description**

This is an identifier for the Registrant

Terminology

None

Validation

- 7.1 There is one company number
- 7.2 The number can be up to 6 digits
- 7.3 Do not use leading zeros

Content of Labeling

The Master Label content is included in the Content of Labeling. The content of labeling is divided into sections and subsections. A section or subsection may be associated with data elements.

Each section and subsection has the following information:

8 *Section type*

Description

This is the subject matter covered in the section

Terminology

DE_Section_Names

Validation

- 8.1 The section and subsections must be in the specified order

9 *Section id*

Description

Unique identifier for each version of the section

Terminology

None

Validation

- 9.1 Identifier is a Globally Unique Identifier (GUID)
- 9.2 GUID is unique throughout the document and system

10 *Effective time*

Description

Date of changes in the section

Terminology

None

Validation

- 10.1 Date is provided in the format yyyyymmdd

11 *Title*

Description

This is the title that shows in the Master Label

Terminology

None

Validation

- 11.1 There is a title

Label Sections

Sections and subsections may also have text and data elements. The following provides information on the text and data elements for each Master Label section and subsection.

12 **Restricted Use Pesticide**

Text

- This label section includes statements regarding Restricted Use Pesticide (RUP) classification of the product. The language describes why the product is restricted and provides a summary statement of the terms of the restriction.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR Part 156, including the requirements set out in 40 CFR 156.10(j)(2) described further in PR Notice 93-1, and LRM: Chapter 6.
- For example: “Due to Acute Toxicity and Toxicity to Birds and Mammals. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.”

Validation

- 12.1 There is one “Restricted Use Pesticide” section.
- 12.2 If text is in the box, then the text “Restricted Use Pesticide” must appear in the “Directions for Use” section.
- 12.3 There are no subsections.

Rendering

- 12.4 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.
- 12.5 If content exists, render content.
- 12.6 Display text in this section within a box.

Subsections

None

13 Ingredient Statement

Text

- This label section describes the ingredients contained in the product, and must contain the name and percentage by weight of each active ingredient, the total percentages by weight of all “Other Ingredients” and sub-statements including, but not limited to: the acid equivalent, elemental equivalent, and corrosivity.
- Reference: 40 CFR 156.10(g) and LRM: Chapter 5

Data Element

13.1 Active Ingredient (Substance)

Data Element Description

This is the active ingredient.

Data Element Terminology

Substance Registry System (SRS)

Data Element Validation

- 13.1.1 There is one or more active ingredients.

13.2 Active Ingredient Strength

Data Element Description

This is the strength of the active ingredient expressed as a percentage.

Data Element Terminology

Unified Codes for Units of Measure (UCUM)

Data Element Validation

- 13.2.1 The selection from the UCUM list must be “%”
- 13.2.2 The strength of the active ingredient and/or the sum of the strengths of the active ingredients cannot exceed 100%.

Validation

13.3 There must be text in this section.

Rendering

13.4 Render content.

Subsections

13.5 **Identified Inert Statement**

Text

- This label section includes statements which identify toxic ingredients, petroleum distillates, sodium nitrite, or other compounds which are required to be disclosed.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: LRM Chapter 5

Validation

13.5.1 Only one “Identified Inert Statement” section allowed.

Rendering

13.5.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.5.3 If content exists, render content.

13.6 **Deterioration/Expiration Statement**

Text

- This label section includes statements regarding the deterioration of a product during storage. In cases where it is determined that a pesticide formulation changes chemical composition significantly over time, the product must bear a statement in this subsection of the label.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 156.10(g)(6)(i); LRM Chapter 5
- For example: “Not for sale or use after (date)”. “Degrades with age...”.

Validation

13.6.1 Only one “Deterioration/Expiration Statement” section allowed

Rendering

13.6.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.6.3 If content exists, render content.

13.7 Child Hazard Warning/Signal Word

Text

- This label section includes statements regarding the Child Hazard Warning and the Signal Word with the associated statements and images. For example, the Child Hazard Warning may include, “Keep out of Reach of Children.” The associated language and image can include, “Poison,” skull and cross-bones, Spanish translation of the signal word, and/or the statement “Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)”
- Reference: LRM Chapter 7 and 10; 40 CFR 156.206(e)

Data Element

13.7.1 **Signal Word**

Data Element Description

This label attribute is the selection of a signal word from a defined set of terminology.

Data Element Terminology

DE_Signal_Word

Data Element Validation

13.7.1.1 There is one Signal Word

Validation

13.7.2 Only one “Child Hazard Warning/Signal Word” section allowed

Rendering

13.7.3 If content exists, render content.

Subsections

None

13.8 Product Profile

Text

This label section includes language that is unique to the product and that generally occurs on the front page of the product label, including: Primary Brand Name, Alternate Brand Name(s), EPA Registration Number, EPA Establishment Number, Company Name and Address, Net Contents or Net Weight, and Batch Code. This section also includes the paragraph or phrase typically found under the product name that describes the type of product, formulation, its uses, pests it controls, and other categories or descriptors (e.g., resistance management category). This content section may also include any other descriptors for the product that are NOT contained in the “Ingredient Statement,” “Precautionary Statements,” “Directions for Use,” “Warranty/Disclaimer Statements,” and “Marketing/Advertising Claims” sections.

Data Element

13.8.1 EPA Registration Number

Data Element Description

This combines the EPA assigned number for a specific company and the registrant-assigned number for a specific product. Do not enter leading zeros for the company or product numbers.

Data Element Terminology

None

Data Element Validation

13.8.1.1 One EPA Registration number per document.

13.8.1.2 Enter number in the following format: company#-product#

13.8.1.3 Up to 6 digits for company number.

13.8.1.4 The company number in this field must match the Company Number entered on the Header Tab.

13.8.1.5 Up to 5 digits for product number.

13.8.1.6 The first number cannot be zero for the company number or the product number.

13.8.2 Primary Brand Name

Data Element Description

This is the product brand name.

Data Element Terminology

None

Data Element Validation

13.8.2.1 There is one Primary Brand Name.

13.8.2.2 Primary brand name cannot be identical to any primary or alternate brand name associated with a different registration number with the same company number.

13.8.3 Alternate Brand Name

Data Element Description

This includes any names other than the Primary Brand Name under which this product may be sold.

Data Element Terminology

None

Data Element Validation

13.8.3.1 There can be zero to many Alternate Brand Names.

13.8.3.2 No two alternate brand names can be identical for this product.

13.8.3.3 No alternate brand name can be identical to the Primary Brand Name.

13.8.3.4 Alternate brand name cannot be identical to any primary or alternate brand name associated with a different registration number with the same company number.

13.8.4 Form as Packaged

Data Element Description

- Describes the physical state and attributes of the product as packaged. If the product is a liquid, the type of liquid (ex. Solution, Suspension, Emulsion, or Gel/Grease/Paste) is selected. If the product is a solid, the type of solid (ex. Granule, Dust/Powder, Crystalline, Solidified Agar, Impregnated Material, or Pellet/Tablet/Rodlet/Briquette) is selected. If the product is packaged as a Gas, then Gas/Vapor is selected.
 - For example:
 - A Water Dispersible Granule product is packed as a "granule" which is associated with the broader term "solid".
 - A Wetable Powder product is packed as a "dust/powder" which is associated with the broader term "solid".
 - A Suspension Concentrate is packaged as a "suspension" which is associated with the broader term "liquid".

Data Element Terminology

DE_Form

Data Element Validation

13.8.4.1 There is one form as packaged

13.8.4.2 "Fog" cannot be selected for Form as Packaged

13.8.4.3 "Smoke" cannot be selected for Form as Packaged

13.8.5 Pesticide Classification

Data Element Description

Describes the product according to the type of pest targeted and the function of the pesticide against the pest (e.g., fungicide, herbicide, disinfectant).

Data Element Terminology

DE_Pesticide_Classification

Data Element Validation

13.8.5.1 There is one or more pesticide classification

Validation

13.8.6 This section must include text

13.8.7 Only one "Product Profile" section allowed

Rendering

13.8.7.1 Render content.

Subsections

None

13.9 Precautionary Statements

Text

The content for this label section is contained within the subsections (e.g., First Aid, Hazard to Humans and Domestic Animals, etc.)

Validation

13.9.1 Only one “Precautionary Statements” section allowed

Rendering

13.9.2 Render content.

Subsections

13.9.3 [First Aid](#)

Text

- This label section includes required and optional first aid statements for the four routes of exposure. Starting with the highest toxicity category, enter each route of exposure (e.g. “If Swallowed”) and its required language in a table. This section also includes general information used when calling a poison control center, doctor, or the National Pesticide Information Center. Also, this section includes the Note to Physician, which includes specific medical treatment directions for a medical professional to follow in situations of exposure.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 156.68; LRM Chapter 7

Validation

13.9.3.1 Only one “First Aid” section allowed.

13.9.3.2 If the signal word selected is ‘Danger,’ then the text ‘Note to Physician’ must be present in this section.

Rendering

13.9.3.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.3.4 If content exists, render content.

13.9.4 [Hazard to Humans and Domestic Animals](#)

Text

- This label section includes statements which identify if hazard exists to humans and/or domestic animals. These are precautionary statements that reiterate the signal word and describe the particular hazards, routes of exposure, and precautions to be taken which must appear on the label.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 156.70; LRM Chapter 7

Validation

13.9.4.1 Only one “Hazard to Humans and Domestic Animals” section allowed.

13.9.4.2 The first word of this text box must be either, "Danger", "Warning", or "Caution", unless "Tox Category IV" has been selected in the Signal Word data element.

Rendering

13.9.4.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.4.4 If content exists, render content.

13.9.5 Personal Protective Equipment

Text

- This label section lists all of the required personal protective equipment (PPE). This includes requirements for clothing, respiratory protection, and protective eyewear for uses covered under the Worker Protection Standard (WPS) as well as label-required baseline work clothes for end-use occupational use products (non-WPS).
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 170.240; LRM Chapter 10

Validation

13.9.5.1 Only one “Personal Protective Equipment” section allowed.

13.9.5.2 If text is present in the "Agricultural Use Requirements" section then this section cannot be blank.

Rendering

13.9.5.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.5.4 If content exists, render content.

13.9.6 Engineering Controls Statement

Text

- This label section describes any reductions or modifications to handler PPE requirements that may be made in the presence of certain engineering controls (e.g., closed systems, enclosed cabs, lock and load containers). Engineering controls may be required by a regulatory assessment or by the acute toxicity profile.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 170.240 (d) (4-6). LRM Chapter 10.
- For example: When handlers use closed systems, enclosed cabs, or aircraft, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Validation

13.9.6.1 Only one “Engineering Controls Statement” section allowed.

Rendering

13.9.6.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.6.3 If content exists, render content.

13.9.7 User Safety Requirements

Text

- This label section includes statements for maintaining PPE and handling contaminated PPE, as well as any specific user safety requirements described in RED documents and other Agency documentation. This section is required for all occupational use products, both WPS and non-WPS.
- **If this section applies** to the product, enter the appropriate text in this box.

- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 170.240, 40 CFR 156.200-212. LRM Chapter 10.
- For example: “Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.”

Validation

13.9.7.1 Only one “User Safety Requirements” section allowed.

13.9.7.2 If text is present in the "Agricultural Use Requirements" section then this section cannot be blank.

Rendering

13.9.7.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.7.4 If content exists, render content.

13.9.8 [User Safety Recommendations](#)

Text

- This label section includes user safety information and additional recommendations for users of products that fall within the scope of the WPS. These statements are required for all WPS products but are also required for many non-WPS occupational use products based upon regulatory assessments.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: PR Notice 93-7, Supplement Three. LRM Chapter 10.
- For example: “Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.”

Validation

13.9.8.1 Only one “User Safety Recommendations” section allowed.

13.9.8.2 If text is present in the "Agricultural Use Requirements" section then this section cannot be blank.

Rendering

13.9.8.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.8.4 If content exists, render content.

13.9.8.5 Display text in this section within a box.

13.9.9 [Environmental Hazards](#)

Text

- This label section includes statements on potential hazards to the environment from transport, use, storage, or spill of the product based on environmental fate and toxicity data. These hazards may be to water, soil, air, or to animals or plants.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 156.80-85; LRM Chapter 8.

Validation

13.9.9.1 Only one “Environmental Hazards” section allowed.

Rendering

13.9.9.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.9.3 If content exists, render content.

13.9.10 Physical and Chemical Hazards

Text

- This label section includes language and symbols regarding physical or chemical hazards for the product.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.
- Reference: 40 CFR 156.78. LRM Chapter 9
- For example: “Combustible. Do not use or store near heat or open flame.”

Validation

13.9.10.1 Only one “Physical and Chemical Hazards” section allowed.

Rendering

13.9.10.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.9.10.3 If content exists, render content.

13.10 Directions for Use

Text

- This label section includes the statement “It is a violation of Federal law to use this product in a manner inconsistent with its labeling.” Other statements relating to misuse are acceptable for residential/household-use products (e.g., “Read the Label First”). These additional statements can appear on the label following the required misuse statement noted above.
- Other products may require additional language: e.g. “Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application” or “For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.”
- Reference: LRM Chapter 11

Validation

13.10.1 This section cannot be blank.

13.10.2 Only one “Directions for Use” section allowed.

13.10.3 The following statement, at a minimum, must be in this text box: “It is a violation of Federal law to use this product in a manner inconsistent with its labeling.”

Rendering

13.10.4 Render content.

Subsections

13.10.5 Agricultural Use Requirements

Text

- This label section includes all text associated with the Agricultural Use Requirements box for product subject to the Worker Protection Standard (WPS), including early entry PPE and Restricted Entry Interval (REI) information.
- If this section applies to the product, enter the appropriate text in this box.
- If this section does not apply to the product, leave the text box blank.
- Reference: 40 CFR 156.206

Validation

13.10.5.1 Only one “Agricultural Use Requirements” section allowed.

Rendering

13.10.5.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.10.5.3 If content exists, render content.

13.10.5.4 Display text in this section within a box.

13.10.6 Non Agricultural Use Requirements

Text

- This label section includes any applicable use requirements that are not within the scope of WPS. Enter the statement, “The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170),” as well as any entry restrictions, notification requirements, or other statements and instructions that apply to the non-WPS uses on the label.
- Include this section only if the product is intended for use on both WPS and non-WPS sites.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

Validation

13.10.6.1 This section must be blank if the Agricultural Use Requirements section is blank.

13.10.6.2 Only one “Non Agricultural Use Requirements” section allowed.

Rendering

13.10.6.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.10.6.4 If content exists, render content.

13.10.6.5 Display text in this section within a box.

13.10.7 Resistance Management

Text

- This label section provides details on precautions, directions, and restrictions related to resistance management of the chemistries of the product and frequently references the IRAC/HRAC/FRAC groups, Insect Resistance Management (IRM) requirements, or Integrated Pest Management (IPM) practices.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

Validation

13.10.7.1 If “Biopesticide: Plant Incorporated Protectant” is selected for the Pesticide Category, then this section must include text.

13.10.7.2 Only one “Resistance Management” section allowed.

Rendering

13.10.7.3 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.10.7.4 If content exists, render content.

13.10.8 Spray Drift Management

Text

- This label section includes any spray drift prevention language, as well as any advisory information, that is applicable to the product.
- **If this section applies** to the product, enter the appropriate text in this box.

- **If this section does not apply** to the product, leave the text box blank.

Validation

13.10.8.1 Only one “Spray Drift Management” section allowed.

Rendering

13.10.8.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.10.8.3 If content exists, render content.

13.10.9 Rotational Crop Intervals

Text

- This label section includes statements regarding the timing of planting for subsequent food/feed crops or cover crops following failure/harvest of a treated crop. Also contains relevant information on grazing/harvest restrictions. Plant-back intervals are typically expressed in days or months. It is recommended that this information is displayed in a table for ease of use.
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

Validation

13.10.9.1 Only one “Rotational Crop Intervals” section allowed.

Rendering

13.10.9.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.10.9.3 If content exists, render content.

13.10.10 Seed Bag Labeling Requirements

Text

- This label section contains instructions to the applicator/seed treater regarding labeling requirements for bags containing treated seed. Seed bag labeling must include the language required under the Federal Seed Act:
 - (1) A word or statement indicating that the seeds have been treated;
 - (2) The commonly accepted coined, chemical (generic), or abbreviated chemical name of any substance used in such treatment;
 - (3) If the substance used in such treatment in the amount remaining with the seeds is harmful to humans or other vertebrate animals, an appropriate caution statement provided by the Secretary of Agriculture as adequate for the protection of the public, such as “Do not use for food or feed or oil purposes.”
- The seed bag labeling may also include statements requested by EPA that are intended to provide the end-user of the treated seed with precautionary and hazard information, planting requirements, disposal instructions, and other restrictions (e.g., PPE for the planter, minimum planting depth, seeding rate restrictions, plant-back restrictions, excess seed disposal instructions).
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

Validation

13.10.10.1 Only one “Seed Bag Labeling Requirements” section allowed.

Rendering

13.10.10.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.10.10.3 If content exists, render content.

13.10.11 Storage and Disposal

Text

- This label section contains information on storage, pesticide disposal, and container handling/disposal.
- All products, except for residential/household-use products, must bear the following statement: “Do not contaminate water, food, or feed by storage or disposal.”
- All products must contain storage statements, which may be chemical-specific (as identified by EPA in the LRM) or non-chemical specific.
- Pesticide disposal instructions include information on how to dispose of leftover pesticide. Pesticide disposal and container handling statements are generally specific to the uses of the product contained and the type of container itself. For residential/household-use products, pesticide disposal and container handling statements may be combined.
- Container handling instructions include information on whether the container is refillable or non-refillable, a reuse statement, a recycling/reconditioning statement, and information on how to remove residues from emptied pesticide containers and what to do with the pesticide container after it is emptied. Plant-incorporated protectants, pesticidal articles not exempted from FIFRA by §152.25(a), transport vehicles, and products listed in §156.140(a)(5) are not required to have refillable/non-refillable and reuse statements.
- Reference: LRM Chapter 13

Data Element

13.10.11.1 Container type

Data Element Description

Identifies the types of containers in which this product is packaged

Data Element Terminology

DE_Container_Type

Data Element Validation

13.10.11.1.1 There is one to many container types

Validation

13.10.11.2 This section cannot be blank.

Rendering

13.10.11.3 Display text in this section within a box.

13.10.11.4 If content exists, render content.

13.10.12 Product Application Instructions/Information

Text

- This label section includes any product application instructions that are consistent across all labeled use sites and are not described in the sections above. Information in this section includes: directions to the users prior to and for opening the package (e.g., shake before using and specific child-resistant packaging instructions); application methods and equipment instructions (e.g., aerial, ground, chemigation); environmental conditions (e.g., soil temperature, soil type, air temperature); product restrictions; product advisory statements; tank mix and compatibility instructions/restrictions (including instructions for diluting and/or mixing the product with other chemicals prior to application).
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

- Reference: LRM, Chapter 11, Section 11-22

Validation

None

Rendering

13.10.12.1 Always display the Section Title in the SPL View or when rendered, even if there is no text entered here.

13.10.12.2 If content exists, render content.

Subsections

13.10.12.2.1 [Use Site Application Instructions](#)

Text

This label section includes application instructions specific to the use site, such as application rate, number of applications, reapplication interval, application timing, target pest, site-specific restrictions, etc.

Data Element

13.10.12.2.1.1 [Use Site](#)

Data Element Description

Identifies the use site. For crop use sites, the list includes all crops and crop groups. For non-crop use sites, the list is comprised of higher level categories. See Appendix A for non-crop use site terminology.

Data Element Terminology

DE_Use_Site

Data Element Validation

13.10.12.2.1.1.1 There is one use site per “Use Site Application Instructions” section

13.10.12.2.1.2 [Location](#)

Data Element Description

Identifies the location where the pesticide treatment can take place

Data Element Terminology

DE_Location

Data Element Validation

13.10.12.2.1.2.1 There is one to many locations per use site

13.10.12.2.1.3 [Action](#)

Data Element Description

Identifies the action/effect of the pesticide (e.g., action against disease, action against pest, plant regulator)

Data Element Terminology

DE_Pesticide_Action

Data Element Validation

13.10.12.2.1.3.1 There is one to many actions per use site

13.10.12.2.1.4 [Sub-action](#)

Data Element Description

Identifies the more specific action of the pesticide against the pest/disease (e.g., destroy, prevent, treat, etc.)

Data Element Terminology

DE_Pesticide_Subaction

Data Element Validation

13.10.12.2.1.4.1 If the action is not Plant Regulator, a sub-action is selected

13.10.12.2.1.5 Plant Disease

Data Element Description

Identifies the target plant disease

Data Element Terminology

DE_Plant_Disease

Data Element Validation

13.10.12.2.1.5.1 If the action is “Action against Disease”, a plant disease must be selected

13.10.12.2.1.6 Pest

Data Element Description

Identifies the target pest

Data Element Terminology

DE_Target_Pest_DFU

Data Element Validation

13.10.12.2.1.6.1 If the action is “Action against Pest”, a pest must be selected

13.10.12.2.1.7 Stage

Data Element Description

Identifies the development stage of the target pest

Data Element Terminology

DE_Pest_Stage

Data Element Validation

13.10.12.2.1.7.1 If the action is “Action against Pest”, a stage must be selected

13.10.12.2.1.8 Plant Regulator Function

Data Element Description

Identifies the function of the plant regulator

Data Element Terminology

DE_Plant_Regulator_Function

Data Element Validation

13.10.12.2.1.8.1 If the action is “Plant Regulator”, a plant regulator function must be selected

Validation

13.10.12.2.1.9 There is one to many “Use Site Application Instructions” sections

Rendering

13.10.12.2.1.10 Render content.

13.11 Warranty/Disclaimer Statement

Text

- This label section includes language describing the warranty and disclaimer statement, and/or terms of use for the product.
- Reference: LRM Chapter 12
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

Validation

13.11.1 Only one “Warranty/Disclaimer Statement” section is allowed.

Rendering

13.11.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.11.3 If content exists, render content.

Subsections

None

13.12 Marketing/Advertising Claims

Text

- This label section must include a comprehensive numbered list of optional language used to market the product or make claims about the effectiveness or characteristics of the product.
- Reference: LRM Chapter 12
- **If this section applies** to the product, enter the appropriate text in this box.
- **If this section does not apply** to the product, leave the text box blank.

Data Element

13.12.11 Seals and Certifications

Data Element Description

Identifies third party seals or certifications displayed on the label. Also, includes any text associated with any seal or certification (e.g., This certification does not imply enhanced safety or efficacy).

Data Element Terminology

DE_Seals_and_Certifications

Data Element Validation

13.12.1.1 Zero to many selections allowed

Validation

None

Rendering

13.12.2 If the section does not contain any content, do not display the Section Title in the SPL View or when rendered.

13.12.3 If content exists, render content.

Subsections

None

13.13 Additional Documentation and Labeling

Text

- This label section is to provide an explanation of any additional documents or labeling which is uploaded as a .pdf document and associated with the registration. If the uploaded documents are part of the product labeling, the content must appear within the structured master label. No new label content can appear in the uploaded associated labeling.
- For example:
 - Product Display Panels:
 - Base Label – the portion of the label affixed to container
 - Booklet Cover – the first page of label booklet which is impermentally affixed to the product
 - Application Manual – label information which accompanies the product but is not affixed to the product.
 - Vial/Unit Packaging Labels – label information which is printed on individual units which are packaged together
 - Supplemental Labels – proposed/accepted supplemental labels which are distributed at the point of sale with the product which provide expanded use patterns or specific instructions for geographic locations/application equipment/pests controlled or other variable

- Reference: LRM Chapter 18
- **If this section applies** to the product, enter the appropriate text in this box and upload documents.
- **If this section does not apply** to the product, leave the text box blank.

Validation

13.13.1 Zero to many documents can be uploaded in this section

13.13.2 Documents must be in .pdf format

Rendering

13.13.3 If content exists, render content.

Subsections

None

Appendix A: Terminology Lists for SmartLabel Pilot Phase 2

This appendix provides terminology lists for certain data elements.

Table 1: DE_Pesticide_Classification

Key UID	Label Term	Definition
3566067	Acaricide	Product intended to destroy or kill members of the arachnid subclass Acari (ticks, mites).
3566068	Algaecide/Algicide	Product intended to destroy or kill algae.
3566069	Algistat	Product intended to prevent algae growth.
3566070	Antibacterial	Product intended to destroy or inactivate bacteria.
3566071	Antifoulant	Product intended to prevent biofouling organism (e.g., algae, barnacles, mollusks, microorganisms) accumulation.
3566072	Aquatic Herbicide	Product intended to destroy or kill aquatic plants.
3566073	Avicide	Product intended to destroy or kill birds.
3566074	Bacteriostat	Product intended to prevent bacteria growth (public health claim).
3566075	Bird Ovicide	Product intended to destroy or kill bird eggs.
3566076	Bird repellent	Product intended to repel birds.
3566077	Chemosterilant	Product intended to prevent animal reproduction, through sterilization.
3566078	Contraceptive	Product intended to prevent animal reproduction, through local or systemic contraception.
3566079	Defoliant	Product intended to destroy or kill plants through defoliation.
3566080	Desiccant	Product intended to destroy or kill plants and/or insects through desiccation.
3566081	Disinfectant	Product intended to destroy or inactivate microorganisms (bacteria, fungi, viruses, etc.) (public health claim subordinate to sterilant claim).
3566082	Fungicide	Product intended to destroy or kill fungi.
3566083	Fungistat	Product intended to prevent fungi growth.
3566084	Herbicide	Product intended to destroy or kill plants.
3566085	Insect attractant	Product intended to destroy or kill insects through attraction to traps.
3566086	Insect growth regulator	Product intended to prevent insect growth or development.
3566087	Insect repellent	Product intended to repel insects.
3566088	Insecticide	Product intended to destroy or kill insects.
3566089	Insecticide synergist	Product intended to destroy or kill insects by enhancing the efficacy of insecticides.
3566090	Mammal attractant	Product intended to destroy or kill mammals through attraction to traps.
3566091	Mammal repellent	Product intended to repel mammals.
3566092	Mating disruptant/Pheromones	Product intended to prevent insect mating.

3566093	Microbicide	Product intended to destroy or kill microorganisms (bacteria, fungi, viruses, etc.).
3566094	Microbiostat	Product intended to prevent microorganism (bacteria, fungi, viruses, etc.) growth.
3566095	Miticide	Product intended to destroy or kill mites.
3566096	Molluscicide	Product intended to destroy or kill mollusks (including snails and slugs).
3566097	Mosquitocide	Product intended to destroy or kill adult mosquitoes.
3566098	Mycobactericide/Tuberculocide	Product intended to destroy or inactivate Mycobacteria strains (public health claim).
3566099	Nematicide	Product intended to destroy or kill nematodes.
3566100	Pediculicide	Product intended to destroy or kill lice.
3566101	Piscicide	Product intended to destroy or kill fish.
3566102	Plant growth regulator	Product intended to regulate plant growth or behavior.
3566103	Predacide	Product intended to destroy or kill predator mammals.
3566104	Preservative	Product intended to prevent microorganism (bacteria, fungi, viruses, etc.) growth in treated articles.
3566105	Rodent attractant	Product intended to destroy or kill rodents through attraction to traps.
3566106	Rodenticide	Product intended to destroy or kill rodents.
3566107	Sanitizer	Product intended to destroy or inactivate microorganisms (bacteria, fungi, viruses, etc.) (public health claim subordinate to disinfection and sterilant claim).
3566108	Slimicide	Product intended to destroy or kill slime-forming microorganisms.
3566109	Sporicide	Product intended to destroy or inactivate spores of spore-forming bacteria (public health claim).
3566110	Sterilant	Product intended to destroy or inactivate microorganism (bacteria, fungi, viruses, etc.) (public health claim).
3566111	Tadpole shrimpicide	Product intended to destroy or kill triops (tadpole shrimp).
3566112	Termiticide	Product intended to destroy or kill termites.
3566113	Virucide	Product intended to destroy or inactivate viruses.

Table 2: DE_Form

Key UID	Label	Definition
3145605	Crystalline	A solid formed by the solidification of a chemical and having a highly regular atomic structure.
3144394	Dust/Powder	A solid composed of a mixture of dry, finely divided active and/or inert ingredient(s).
3145614	Emulsion	A semi-solid composed of at least two immiscible liquids, one of which is dispersed as droplets within the other liquid, and stabilized with one or more emulsifying agents.

3145609	Encapsulation (Dry)	Formulation in which the active ingredients is in the condition of being enclosed.
3145611	Encapsulation (Suspension)	Formulation in which the active ingredients is in the condition of being enclosed and suspended in a liquid.
3145616	Fog	A collection of liquid droplets suspended in the air. Can be the result of hot or cold fogging machines or other fogging apparati. Not to be chosen for Form As Packaged.
3145618	Gas/Vapor	A product in the gaseous state having neither independent shape nor volume and being able to expand indefinitely. When package under pressure, may result in the formation of a liquid
3145615	Gel/Grease/Paste	A semi-solid composed of a solid, three dimensional, cross linked matrix of polymers within a liquid, yielding a jelly-like material unable to flow at steady state.
3144392	Granule	A solid composed of small particles or grains.
3145607	Impregnated Material	A solid material which is impregnated with pesticide to either act within the impregnated material or to be released from the impregnated material at the time of application
3145608	Pellet/Tablet/Rodlet/Briquette	A solid composed of a mixture of that active and/or inert ingredient(s) are pressed or compacted together, usually in the form of a relatively flat and round, square or oval shape.
3145619	Smoke	The result of ignition or combustion of a material. Not to be chosen for Form As Packaged.
3145606	Solidified Agar	A culture medium having a gelatinous base on which is growing the active ingredient (bacterium)
3145612	Solution	A homogeneous liquid composed of one or more chemical substances dissolved in a solvent or mixture of mutually miscible solvents.
3145613	Suspension	Insoluble solid particles composed of active and/or inert ingredient(s) that are dispersed in a liquid. Includes paints.

Table 3: Non-Crop Selections for DE_Use_Site

Key UID	Label	Definition
	Burrows/nests	A burrow is a hole or tunnel excavated into the ground by an animal or insect to create a space suitable for habitation, temporary refuge, or as a byproduct of locomotion. A nest is a structure built by certain animals or insects to hold its eggs, its offspring, or occasionally the animal itself. <i>Such as</i> rodent burrows/nest (such as mouse, mole or rat), large mammal burrows/nests (such as badger), bird burrows/nests, flying insect nests (such as fly or wasp), bee hives, and crawling insect nests/mounds (such as ant or cockroach).
	Animals (non-pet, not for human consumption)	Animals not intended for companionship or consumption. Animals may be kept at facility in which they are confined or bred, or live in nature and are not provided food or shelter by humans. <i>Such as</i> zoo animals, fur or wool bearing animals, laboratory animals, research animals, and wild animals.
	Animals (pets)	Domesticated animals intended for companionship, including as pets, work, for sport. <i>Such as</i> dogs, cats, horses, birds, reptiles, amphibians, monkeys, rabbits, rodents, and fish.
	Humans	Direct applications to people. <i>Such as</i> face and neck/scalp.
	Non-crop vegetation	Vegetation grown for non-food purposes. <i>Such as</i> grass/turf including golf courses, ornamentals such as flowering and non-flowering plants, non-grass ground coverings, shrubs, bushes, vines, and trees (non-food producing).
	Water/Fluids and Systems (Intended for human consumption or food contact)	Water/fluids intended for human consumption, either during or after treatment, and the systems/equipment either in direct contact with said water/fluids or that are reasonably expected to be. <i>Such as</i> food processing water, and human drinking water systems.
	Water/Fluids/Waste Materials and Systems (Not intended for direct human consumption or food contact)	Water/fluids and materials not intended for human consumption, including wastes, and the systems/equipment either in direct contact with said water/fluids and materials or that are reasonably expected to be. <i>Such as</i> lakes/ponds/reservoir water prior to treatment; rivers/streams/creeks; sewer/sewage/waste water systems; estuaries/bays/harbors; irrigation/drainage ditches/canals/chemigation systems; man made water containing structure such as fountains and aquaria; rain/snow/melt/pools/puddles; intermittently flooded areas; animal drinking water; aquaculture areas; ballast tank water; animal waste and manure; industrial/manufacturing/processing fluids/chemicals; industrial/manufacturing/processing water systems; medical/human waste; flowing lotic water areas; non-flowing or slow-flowing lentic water areas; swimming pools and spas.
	Objects/Surfaces	Surfaces of machinery, tools, materials, and items/objects, including hard porous and hard non-porous surfaces. <i>Such as</i> medical/biological material; agricultural/crop/gardening equipment; livestock/animal equipment; food processing equipment; eating establishment equipment; laundry/clothing equipment; manufacturing/industrial equipment; utilities/electrical/telecom/HVAC equipment; recreational equipment; pet/animal equipment; personal hygiene equipment; medical/hospital/health/sanitary equipment, and soil/compost/mulch.

Premises/Areas	A space or area, indoor or outdoor, where treatment is non-specific to a particular object or component and is intended to treat the entire area, such as with a spray/mist/fog, bait stations, or wide area mosquito spray/mist/fog. <i>Such as</i> buildings and their rooms, non-agricultural land occupied by buildings, industrial yards/lots, construction areas, tank farms, mine areas, pasture/rangeland/fallow land, mosquito abatement districts, paved areas including roadways and parking lots, rows, transportation vehicles, recreational areas, animal habitat, nature areas, and pet areas .
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Table 4: DE_Location

Key UID	Label Term	Definition
3565495	Agricultural (Indoor)	An indoor area used for growing crops/ornamentals or raising animals for commercial purposes. This includes agricultural greenhouses and barns.
3565493	Agricultural (Outdoor)	An area used for growing crops/ornamentals, or raising animals for commercial purposes. This includes cultivated areas, nurseries, shadehouses, sod farms, Christmas trees, seedling nurseries and other forestry practices grown to commercial rather than physical maturity, etc.
3565492	Forestry	Forestry is a non-preferred term. For managed trees (such as deciduous, broadleaf, hardwood, etc), use the location Woodland/Nature Area/Animal Habitat (Outdoor). For tree farms (e.g., Christmas trees), use Agricultural (Outdoors).
3565496	Greenhouse (indoor)	Greenhouse is a non-preferred term. Choose one or more of the following: (1) For agricultural greenhouses use Agricultural (indoor), (2) For greenhouses on residential property, such as in a backyard, use Residential (indoor). Building designed for the protection of plants against excessive cold or heat. An enclosed structure (usually made of translucent/transparent glass or plastic on a framing of metal, plastic, or wood) used for the production of plant products. As compared to a Shadehouse/Lathhouse, a Greenhouse has fixed impermeable wall and roof, and is thus considered to be an indoor treatment. Shadehouses and Lathouses are outdoor treatments.
3565485	Medical/Hospital/Veterinary Facility (Indoor)	Indoor premises relating to the treatment/prevention of diseases and injuries.
3565486	Medical/Hospital/Veterinary Facility (Outdoor)	Outdoor premises relating to the treatment/prevention of diseases and injuries.
3565494	Nursery (outdoor)	Nursery is a non-preferred term. Choose one or both of the following (in most cases, both should be chosen): (1) For agricultural nurseries use Agricultural (outdoor), and (2) For nurseries used primarily as a point of sale directly to consumers use Residential/Recreational/Schools/Commercial/Retail (Outdoor). An area where plants are grown (for transplanting, for use as stocks for budding and grafting)

		or are for sale. Treatments to nurseries are considered to be outdoor uses.
3565489	Occupational/Manufacturing/Industrial Area (Indoor)	Indoor premises that people frequent for occupational purposes, such as manufacturing facilities, construction areas, and office buildings excluding primarily agricultural, recreational and residential areas.
3565490	Occupational/Manufacturing/Industrial Area (Outdoor)	Outdoor premises that people frequent for occupational purposes, such as manufacturing facilities, construction areas, docks/marinas, water bodies, and industrial park or office campus excluding primarily agricultural, recreational and residential areas.
3565487	Residential/Recreational/Schools/Commercial/Retail (Indoor)	Indoor premises in developed areas where people live or frequent for non-occupational purposes. Such as schools, universities, municipal/public parks, amusement parks, government buildings, prisons, institutions, malls, and greenhouses on residential property.
3565488	Residential/Recreational/Schools/Commercial/Retail (Outdoor)	Outdoor premises of locations in developed areas where people live or frequent for non-occupational purposes. Such as schools, universities, docks/marinas, water bodies, municipal/public parks, amusement parks, government buildings, prisons, institutions, malls, shadehouses / lathhouses or gardens on residential property.
3565497	Shadehouses / Lathhouses	Shadehouses / Lathhouses is a non-preferred term. Choose one or more of the following: (1) For agricultural shadehouses / lathhouses, use Agricultural (outdoor), (2) For shadehouses / lathhouses on residential property, such as in a backyard, use Residential (outdoor).
3565484	Treated Material	Represents a pesticide treatment made during the manufacture/production of materials, plastics, paints, films, fabrics, wood, etc. (including impregnated materials)
3565491	Woodland/Nature Areas/Animal Habitat (Outdoor)	Generally undeveloped areas, including managed forest stands in long term rotation, not occupied by medical, residential, recreational, commercial, industrial, or agricultural buildings/activities, such as forests, conservation reserve program areas, wildlife refuges, beaches/water bodies, state/national parks, hiking trails, etc. uses.

Table 5: DE_Pest_Stage

Key UID	Label	Definition
3566115	Adult	Such as: Mature/Fully Formed/Vegetative/ includes prions and viruses and any germinated plant.
3566116	Juvenile	Such as: Nymphs, Larvae, Naiads, Pupae, Fish fry. Do not use this selection for plants.
3566117	Egg/Seed/Spore	Such as: bird/reptile/insect eggs, plant seeds, microganism spores (nonvegetative) and protozoan cysts.

Table 6: DE_Pesticide_Action

Key UID	Label	Definition
	Action Against Disease	The product is intended to PREVENT or TREAT a plant disease.
	Action Against Pest	The product is intended to DESTROY, PREVENT or REPEL invertebrate or vertebrate animals, weeds, or microorganism considered pests to humans.
	Plant Regulator	The intended action is to REGULATE a plant but not kill the plant. Regulation can be considered both negative and positive effects on an indivudal plant.

Table 7: DE_Pesticide_Subaction

Key UID	Label	Definition
	Destroy	The intended action of the product is to KILL or DESTROY an individual.
	Prevent	The intended action of the product is to INHIBIT mating, conception, reproduction, development and/or the presence of an individual.
	Repel	The intended action is to REPEL or flush out an individual from a given area.

Table 8: DE_Plant_Disease_Subaction

Key UID	Label	Definition
	Prevention	The intended action is to PREVENT the emergence of a plant disease that has not yet emerged.
	Treatment	The intended action is to TREAT a plant disease that is present.

Table 9: DE_Certifications_and_Seals

Key UID	Label Term	Definition
3145570	Biobased	Certified by the USDA as a "Biobased" product
3145573	Design for Environment (DfE)	Certified by the EPA as part of the Design for the Environment Partnership Program
3145574	Good Housekeeping Seal of Approval	Certified as part of the Good House Keeping's "Consumer Policy"
3145572	National Organic Program (NOP)	Certified as part of the National Organic Program

3144337	National Sanitation Foundation - NSF/ANSI 60	Certified by the National Sanitation Foundation to NSF/ANSI 60 standards
3145571	Organic Materials Review Institute (OMRI)	Certified by the Organic Materials Review Institute
3145569	Water Quality Association - NSF/ANSI 60	Certified by the Water Quality Association to NSF/ANSI 60 standards