United States Environmental Protection Agency
Office of Pesticide Programs

PESTICIDE PRODUCT INFORMATION SYSTEM DATA STANDARD

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Office of Pesticide Programs

Attention: The PPIS XML is currently under consideration.

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1 INTRODUCTION

The Pesticide Product Information System (PPIS) contains information concerning all pesticide products registered in the United States. It includes registrant name and address, chemical ingredients, signal word, product names, distributor brand names, site/pest uses, pesticidal type, formulation code, and registration status.

These Extensible Markup Language (XML) files are being made available to the public to enable interested parties to download all or any part of the pesticide product information, and develop customized queries and reports. Organizations often request that the Office of Pesticide Programs provide copies of these files in slightly different formats, requiring OPP staff to perform time consuming special retrievals. By presenting these files in a standard format, OPP is providing the same information in the same format to all interested parties.

1.1 Filename format

The PPIS format specification (this document) is versioned using a version numbering schema of type XX-XX-XXXX. It is composed of a date format, MM-DD-YYYY. The file name convention of the PPIS format specification is therefore

PPIS-Data-Standard-XX-XX-XXXX.<format suffix>

for example

PPIS-Data-Standard-01-02-2015.pdf

1.2 Management of PPIS

All of PPIS files and documents are available on the OPP website at: http://www2.epa.gov/ingredients-used-pesticide-products/pesticide-product-information-system-ppis

1.3 Contacts

Any entity needing assistance regarding the PPIS should contact the OPP at OPPChemicalSerach@epa.gov. The OPP will then direct questions to responsible for the maintenance or data quality of the PPIS.

2 PPIS SCHEMA DEFINITION

2.1 Overview

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This chapter provides a technical reference for the PPIS XML schema definition, as defined in the PPIS XSD schema file. PPIS XML files will be break down by 'ACTIVE' and 'CANCELLED' to keep the file size low and easier to import into your system.

2.2 Filename Format

The PPIS format specification (this document) is versioned using a version numbering schema of type XX-XX-XXXX. It is composed of a date format, MM-DD-YYYY. The file name convention of the PPIS format specification is therefore

PPIS-SEC3-ACTIVE-XX-XX-XXXX.<format suffix>
PPIS-SEC3-CANCELLED-XX-XX-XXXX.<format suffix>
PPIS-SEC24C-ACTIVE-XX-XX-XXXX.<format suffix>
PPIS-SEC24C-CANCELLED-XX-XX-XXXX.<format suffix>

for example

XML:

Section 3: PPIS-SEC3-ACTIVE-01-02-2015.xml
Section 24(c): PPIS-SEC24C-ACTIVE-01-02-2015.xml

XSD: PPIS-SCHEMA-01-02-2015.xsd

2.3 Boilerplate for element description

This chapter contains the boilerplate for the subsequent documentation of the XSD elements including an explanation of the description template.

Please note that this specification contains only main aspects of the actual XSD definition.

2.3.1 Child Elements

This chapter defines the child elements of the element in focus in the form of a table:

Element Name		
Xpath		
Diagram		
Child Element	Definition	Description

Child Element Table – boilerplate sample: child elements definition:

- The row Xpath contains the Xpath expression of the element in an instance.

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- The cell next to “Diagram” shows a graphics representation of the element and its direct child elements.
- The rows below “Child Element” contains the child elements of the element in focus. The order of child elements in the parent element is of no significance.
- The column “Definition” contains the definition of the element.
- The column “Description” contains the description of the element.

2.4 Elements

2.4.1 EPAPRODUCTIONINFORMATION

The EPAPRODUCTIONINFORMATION element is the root element of the complete XL backbone file.

2.4.1.1 Child Elements

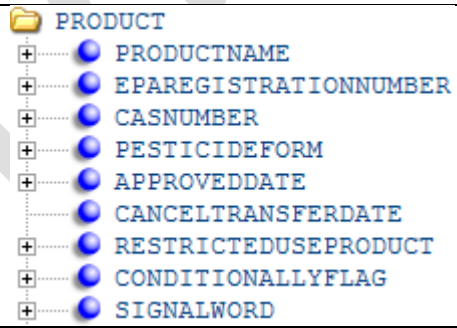
Element Name	EPAPRODUCTIONINFORMATION	
Xpath	EPAPRODUCTIONINFORMATION	
Diagram		
Child Element	Definition	Description
Product		

2.4.2 Product

Contains basic information for each EPA registration number such as the product name, status, approval date, physical form, and signal word.

2.4.2.1 Child Elements

Child elements definition for element **PRODUCT**.

Element Name	Product	
Xpath	EPAPRODUCTIONINFORMATION/PRODUCT	
Diagram		
Child Element	Definition	Description
PRODUCTNAME	xs:string	The pesticide product name as identified to EPA by the registrant or distributor.
EPAREGISTRATIONNUMBER	xs:string	EPA assigned pesticide product registration number.

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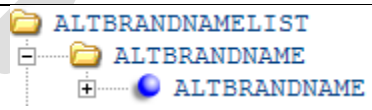
CASNUMBER	xs:string	The Chemical Abstract Service Registry Number associated with each of the EPA designated chemical codes (PC_CODE). A single 'CAS_NR' may have multiple associated 'PC_CODE' and a single 'PC_CODE' may have multiple associated 'CAS_NR'. The 10-digit field should be displayed in the format ZZZZZZ9-99-9.
PESTICIDEFORM	xs:byte	The descriptive name associated with a pesticide product physical form (i.e. granular, dust, liquid).
APPLICATIONDATE	xs:date	The application date associated with a distributor product registration request. The application date is provided in the format YYYY-MM-DD.
APPROVEDDATE	xs:date	The pesticide product registration approval date. The approved date is provided in the format YYYY-MM-DD.
CANCELTRANSFERDATE	xs:date	The cancellation or transfer date of a pesticide product registration. The date is provided in the format YYYY-MM-DD.
RESTRICTEDUSEPRODUCT	xs:string	Identifies if the product is a restricted use product.
CONDITIONALLYFLAG	xs:string	Identifies if the product was conditionally registered under FIFRA 3(c)(7) or unconditionally registered under FIFRA 3(c)(5). The field values are 'T' for true (conditionally registered) and 'F' for false (unconditionally registered).
SIGNALWORD	xs:string	A word (“Caution,” “Warning,” or “Danger”) that indicates the most severe toxicity category assigned to the five acute toxicity studies, or the presence of methanol in concentrations of 4 percent or more.

2.4.3 ALTBRANDNAMELIST

List the alternative brand name associated to its product. This list can be null.

2.4.3.1 Child Element

Child elements definition for element **ALTBRANDNAMELIST**.

Element Name	AltBrandNameList	
Xpath	EPAPRODUCTIONINFORMATION/PRODUCT/ALTBRANDNAMELIST	
Diagram		
Child Element	**Definition**	**Description**
ALTBRANDNAME	xs:string	Alternative brand name of its product.

2.4.4 Company

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Contains name and address information for all companies which have been assigned an EPA company number.

2.4.4.1 Child Elements

Child elements definition for element **COMPANY**.

Element Name	Company	
Xpath	EPAProductionInformation/Product/Company	
Diagram	COMPANY COMPANYNUMBER COMPANYNAME DIVISIONNAME MAILINGSTREET MAILINGCITY MAILINGSTATE MAILINGZIPCODE CONTACT TELEPHONENUMBER ELECTRONICADDRESS	
Child Element	**Definition**	**Description**
EPACOMPANYNUMBER	xs:byte	EPA assigned number for each registrant or distributor.
COMPANYNAME	xs:string	First line of registrant, agent, or distributor name.
DIVISIONNAME	xs:string	Division name
MAILINGSTREET	xs:string	Street address of registrant, agent, or distributor.
MAILINGCITY	xs:string	City address of pesticide registrant, agent, or distributor.
MAILINGSTATE	xs:string	State code of registrant, agent, or distributor.
MAILINGZIPCODE	xs:int	Digit zip code of registrant, agent, or distributor.
CONTACT	xs:string	Company contact person.
TELEPHONENUMBER	xs:string	Company phone number.
ELECTRONICADDRESS	xs:string	E-mail address of first line of registrant, agent, or distributor.

2.4.5 Agent

Contains the registrant's designed agent name and address information.

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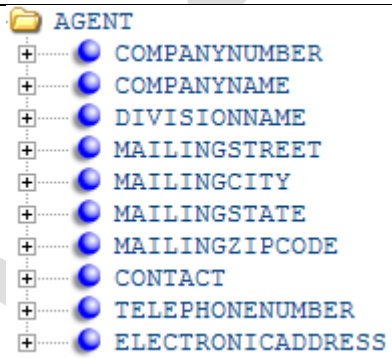
2.4.5.1 Child Elements

Child elements definition for element **AGENT**.

Element Name	Agent	
Xpath	EPAProductionInformation/Product/Agent	
Diagram		
Child Element	**Definition**	**Description**
EPACOMPANYNUMBER	xs:byte	EPA assigned number for each registrant or distributor.
COMPANYNAME	xs:string	First line of registrant, agent, or distributor name.
DIVISIONNAME	xs:string	Division name
MAILINGSTREET	xs:string	Street address of registrant, agent, or distributor.
MAILINGCITY	xs:string	City address of pesticide registrant, agent, or distributor.
MAILINGSTATE	xs:string	State code of registrant, agent, or distributor.
MAILINGZIPCODE	xs:int	5-digit zip code of registrant, agent, or distributor.
CONTACT	xs:string	Company contact person
TELEPHONENUMBER	xs:string	Company phone number.
ELECTRONICADDRESS	xs:string	E-mail address of first line of registrant, agent, or distributor.

2.4.6 DistributorList

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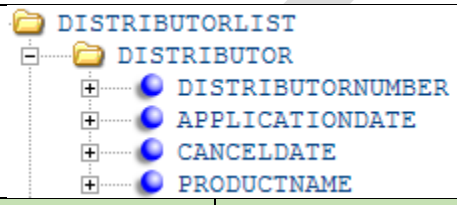
Contains information about companies who market section 3 registrations under a distributor brand name. This list can be null.

2.4.6.1 Child Elements

Child elements definition for element **DISTRIBUTORLIST**.

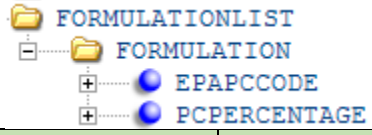
Element Name	DistributorList	
Xpath	EPAProductionInformation/Product/DistributorList	
Diagram		
Child Element	**Definition**	**Description**
DISTRIBUTORNUMBER	xs:string	EPA assigned number for each distributor.
APPLICATIONDATE	xs:date	The application date associated with a distributor product registration request.
CANCELDATE	xs:date	The cancellation date of a pesticide product registration.
PRODUCTNAME	xs:string	Product name of each distributor.

2.4.7 FormulationList

Provide formulation percentage of each active ingredient.

2.4.7.1 Child Elements

Child elements definition for element **FORMULATIONLIST.**

Element Name	FormulationList	
Xpath	EPAProductionInformation/Product/FormulationList	
Diagram		
Child Element	**Definition**	**Description**
EPAPCCode	xs:string	EPA assigned pesticide chemical code also commonly referred to as active ingredient code, Shaughnessy code, and chemical code.

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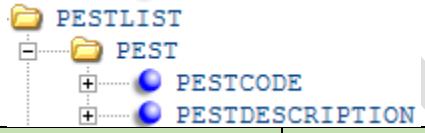
PCPercentage	xs:string	The percentage appearing in the pesticide product formulation.

2.4.8 PestList

Contains information about the pests for which a particular pesticide product is registered.

2.4.8.1 Child Elements

Child elements definition for element **PESTLIST**.

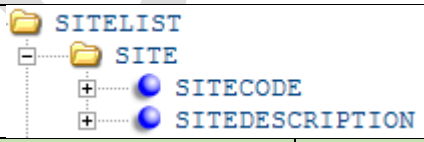
Element Name	PestList	
Xpath	EPAProductionInformation/Product/PESTLIST	
Diagram		
Child Element	Definition	Description
PESTCODE	xs:string	EPA assigned code for each pest associated with a pesticide product.
PESTDESCRIPTION	xs:string	The pest name description associated with each 'PestCode'.

2.4.9 SiteList

Contains the site code and description for each site for which a pesticide product is registered.

2.4.9.1 Child Elements

Child elements definition for element **SITELIST**.

Element Name	SiteList	
Xpath	EPAProductionInformation/Product/SiteList	
Diagram		
Child Element	Definition	Description
SITECODE	xs:ing	EPA assigned code for each site associate with a pesticide product.
SITEDESCRIPTION	xs:string	The site name description associated with each 'SiteCode'.

2.4.10 ProductManagerList

Contact information of Product Manager who manage the product.

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2.4.10.1 Chile Elements

Child elements definition for element PRODUCTMANAGERLIST.

Element Name	ProductManagerList	
Xpath	EPAProductionInformation/Product/SiteList/ProductManagerList	
Diagram	PRODUCTMANAGERLIST PRODUCTMANAGER PRODUCTMANAGERCODE PRODUCTMANAGERNAME PRODUCTMANAGERTELEPHONE PRODUCTMANAGERTEAM PRODUCTMANAGERELECMAIL	
Child Element	Definition	Description
PRODUCTMANAGER CODE	xs:byte	The product manager (PM) code.
PRODUCTMANAGER NAME	xs:string	The product manager (PM) name.
PRODUCTMANAGER TELEPHONE	xs:string	The product manager (PM) telephone number
PRODUCTMANAGER TEAM	xs:string	The assigned code for each product manager (PM).
PRODUCTMANAGER ELECMAIL	xs:string	The product manager (PM) email address.

2.4.11 TransferList

Contains product transfer information with the previous registration number, transfer reason, and transfer date.

2.4.11.1 Child Elements

Child elements definition for element **TRANSFERLIST**.

Element Name	TransferList
Xpath	EPAProductionInformation/Product/TransferList
Diagram	TRANSFERLIST TRANSFER PREVIOUSREGNUMBER TRANSFERDATE

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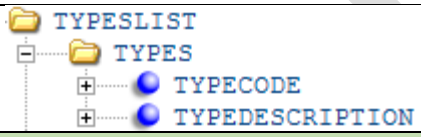
Child Element	Description
PREVIOUSREGNUMBER	EPA assigned pesticide product registration number
TRANSFERDATE	The effective date of a pesticide product registration transfer action.

2.4.12 TypesList

Contains the type code and description indicating product type as insecticide, rodenticide, fungicide, etc.

2.4.12.1 Child Elements

Child elements definition for element **TYPESLIST**.

Element Name	Type
Xpath	EPAProductionInformation/Product/TypesList
Diagram	
Child Element	**Description**
TYPECODE	The type of pesticide product expressed as a code (i.e. insecticide, fungicide, rodenticide, etc…).
TYPEDESCRIPTION	The type of pesticide product description associated with each 'TypeCode'.

3 APPENDIX

3.1 Glossary of Terms

The definitions used in this documents are for the purpose of the PPIS only.

Terms	Definitions
EPA	Environmental Protection Agency
OPP	Office of Pesticide Programs
PPIS	Pesticide Product Information System
Registrant	Company, company representative, or individual who holds the registration for an active product.
Registration	The process to apply, assess and register a pesticide.
XML	Extensible Markup Language
XSD	XML Schema Definition

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3.2 Version History

The following Change History log contains a record of changes made to this document. The last column also contains information whether a new version of this PPIS specification.

Version #	Date	Author	Nature of Change / Affected PPIS components
01.00.00	February 2015	OPP	Initial publication of this document
01.01.00	March 2015	OPP	Updated XML elements and its description
01.02.00	April 2015	OPP	Added 'XSD'
01.03.00	April 2015	OPP	Minor changes in Site Element
01.04.00	May 2015	OPP	Breakdown XML files by 'Active' and 'Cancelled' to reduce the file size

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