

856 Advance Ship Notice

Supplier Implementation Guide

Version 1.1

January 2018

856 Ship Notice/Manifest

INTRODUCTION

In 2017, CVSHealth embarked upon an initiative to receive an EDI Advance Ship Notice/856 from each supplier with whom warehouse and direct store delivery (DSD) orders are placed. CVS has always received ASNs from suppliers, but they are not currently standardized across the partner community. In an effort to normalize the information, we have published this new ASN standard that will support multiple palletization formats (e.g. SOTI and STOI) and enhanced data payload to help us better track our shipments into our warehouse facilities and stores.

Pertinent business departments within CVSHealth were consulted in the ASN development process including Inventory Management, Logistics, Imports, Hazardous Materials and others. The goal of the resulting technical specification is to provide CVSHealth with not only advance notification of shipments, but comprehensive visibility of product information related to each shipment and metric opportunities to gauge the overall efficiency of the supply chain process. The specification is applicable to warehouse or store deliveries for both front store and pharmacy products.

The mandatory/must use fields noted will help support several programs including but not limited to:

- STOI Palletization
- Imports
- Hazardous Materials Reporting
- Fill Rate Tracking
- Transportation Freight Analytics
- Certified Product Check-In
- UCC/GS1-128 labelling
- Compliance of the Drug Supply Chain Security Act (DSCSA) of 2013

This technical specification may be modified at times due to mandates from the Food & Drug Administration (FDA) or other regulators and to ensure ongoing applicability of the data for business purposes. Any changes will be communicated in advance via an EDI Text Message/864 as per the existing, standard CVSHealth process.

Any technical questions may be referred to the CVSHealth EDI team. Email is preferred at EDIMail@CVSCaremark.com or call 401.770.7600.

Version Release Notes

- **Version 1.1, January 2018**
Technical specification updated as a result of insight from initial partner community engagement, including:
 - FOB 01 and 02 elements corrected (Shipment Level)
 - N2 Segment corrected (Shipment Level)
 - PLT Packaging Code removed from TD1 as inappropriate at that level (Order Level)
 - Expansion of standard Mandatory, Optional, and Optional Must Use designations throughout the document for increased clarity.
- **Version 1.0, December 2017**
First version of the newly designed ASN specification released.

STOI Palletization

Over the years, preferred ASN specifications at CVSHealth have migrated from SOTI (Shipment Order Tare Item) to STOI (Shipment Tare Order Item) formats. Pack and Inner Pack levels of information should be provided in either format as specified, if applicable. STOI presents potential efficiency gains over SOTI, particularly in the transportation layer, through allowing multiple purchase orders to be palletized together. The SOTI format remains the most common found throughout the industry however, and many of our suppliers communicated to us that their business systems are incapable of generating STOI palletization and ASNs at this time.

Packaging is another important discussion point related to palletization and is often a confusing aspect of ASNs. This is due to naming conventions varying from company to company based upon their individual systems and processes. Then, these differ from naming conventions used by global EDI standards such as ANSI X12. For instance, a box on a pallet is often called a shipping container, an “outer”, a carton, a Master Case or, at CVSHealth, simply a case. Meanwhile, our business associates generally call the smaller boxes of sellable items within the case an “inner pack” but per ANSI X12 it’s referenced as a “pack”. To EDI a true “inner pack” would be an “inner inner pack” to our business colleagues. All very confusing, so CVS EDI is placing an illustrated guide at the end of this specification to demystify the topic and clarify our needs and expectations.

Imports

It became evident early in the discovery phase of the enhancement efforts that existing ASN standards did not include Freight-On-Board (FOB) or other useful information related to imported products. These have been included in the new specification.

Hazardous Materials Reporting

Similarly, no hazardous materials or special handling information was traditionally provided for applicable items. This information will greatly assist in the safe handling of product within our facilities upon shipment receipt as well as enhance our business records and regulatory compliance.

Fill Rate Tracking

Fill rate and purchase order fulfillment metrics are an important benchmark of the health of the supply chain relationship between CVSHealth and our vendor community. Accurate ASN information will help provide end-to-end visibility and assist both parties in highlighting areas of success and identifying potential opportunities for improvement.

Transportation Freight Analytics

The existing ASN specifications were greatly enhanced to provide more information regarding the transportation of shipments into our distribution centers and stores. This information will provide better logistical clarity of product movement and identify efficiency opportunities within the transportation layer.

Certified Product Check-In

CVSHealth is currently exploring new efficiencies in receiving shipments, particularly into our distribution facilities. A certification process has been established through which our suppliers may qualify for the Certified Product Check-In program. This will allow a supplier's shipment to be scanned upon receipt using provided GS1-128 labels to speed the product from the dock to the rack.

Compliant Bar Codes & Labels (GS1-128, FDA/HDA, CVSHealth Standards)

The unique identifiers applied to each pallet and case should conform to the GS1- 128, FDA/HDA, and CVSHealth bar code guidelines, and should be included within the ASN. The label should align with the information provided on the corresponding ASN. Properly completed bar codes and labels are mandatory for DSCSA and special programs such as Certified Product Check-In.

CVS Label Guide:

http://cvssuppliers.com/sites/default/files/CVS%20GS1-128%20Label%20Requirements_0.pdf

Serialization & EPCIS

In addition to ASN serialization and labelling, CVSHealth is currently investigating applicability of EPCIS solutions for pharmacy products regulated by DSCSA. The partner community will be notified if EPCIS interfacing becomes available and any related impact to the ASN.

DSCSA Compliance

The EDI segments and elements related to pharmacy track-and-trace meet the federal DSCSA requirements of the 856 Ship Notice/Manifest electronic data interchange (EDI) transaction set developed by the Healthcare Distribution Alliance (HDA), formerly Health Distribution Management Association (HDMA), and customized by CVSHealth. HDA members provide business and technology expertise to develop voluntary healthcare industry implementation guidelines for use of EDI and other technology standards.

This version is intended to support compliance with the Drug Supply Chain Security Act of 2013, Title II of the Drug Quality and Security Act. [Public Law 113-54] This document provides a streamlined format for the exchange of Transaction Information (TI), Transaction History (TH) and a possible Transaction Statement (TS).

This publication outlines the voluntary industry conventions and implementation guidelines for the ASC X12 approved 856 "Advance Ship Notice" (ASN) EDI standard used by manufacturers, repackagers, distributors, exclusive distributors and any other parties to send required information to their trading partners to document the movement of prescription drugs through the healthcare supply chain. This ASN can facilitate downstream product and shipping data collection which may then be used to create a possible Transaction Statement trading partners agree upon.

Defined Scope of Use

Please note DSCSA guidelines are based on evolving requirements and, as such, may change as the Food and Drug Administration (FDA) issues guidance and regulation implementing the DSCSA. It is the responsibility of the users of the ASN to ensure the information contained in the ASN message is accurate and complete based on current regulatory and business requirements. This ASN is a framework message and allows trading partners the flexibility to determine which specific codes, identifiers, content, etc. are most appropriate for their business needs.

Changes made to the guideline to facilitate DSCSA compliance:

Shipment Level:

- In the N1 loop, N2, N3 and N4 are included in the guideline because it is mandatory to indicate the address of buyer and seller for DSCSA compliance.
- The YNQ segment is used to indicate DSCSA compliance.

Item Level:

- An N1 loop, including N2, N3 and N4, is added for Transaction History required information, such as Original Manufacturer or Exclusive Distributor.

Note: Although lot number is not required in all DSCSA scenarios, it can be included in the LIN segment as trading partners may find it a helpful way to exchange information.

Hierarchical Summary of Segments & Elements to Facilitate DSCSA Compliance

The below represents HDA's interpretation of the EDI segments that correlate with the information required for trading partners to pass Transaction Information (TI), Transaction History (TH) and the Transaction Statement (TS) under the Drug Supply Chain Security Act (DSCSA)

Shipment Level:

Four N1 loops are required to distinguish logistical movement from ownership transfer:

- 1) Ship From
- 2) Seller
- 3) Ship To
- 4) Buyer

- In each N1 loop, N2, N3 and N4 are included in the guideline because it is mandatory to indicate the address of buyer and seller for DSCSA compliance
- One YNQ segment is used to communicate the **Transaction Statement (TS)**

A compliant shipment level YNQ will show:

- YNQ02 = 'Y'
- YNQ05 must contain the Transaction Statement. HDA recommends the following text in YNQ05 as the Transaction Statement:
"Seller has complied with each applicable subsection of FDCA Sec. 581(27) (A)–(G)."
- YNQ08 = '99'
- YNQ09 = 'TS'

A second YNQ segment may be used as a pointer for downstream segments to indicate that a **direct purchase statement (DPS)** or the receipt of a direct purchase statement applies to a product at item level. A DPS at the shipment level is effectively a flag to look for the item level YNQ.

Use of the shipment level DPS YNQ will show:

- YNQ02 = 'Y'
- YNQ05 must contain a direct purchase statement o YNQ08 = '99'
- YNQ09= 'DPS'
- HDA recommends the following text in YNQ05 as the Direct Purchase Statement:

“As indicated below, product was purchased directly from the manufacturer, manufacturer’s exclusive distributor or repackager who purchased directly from a manufacturer.”

Item Level:

- An N1 loop, including N3 and N4, is added for **Transaction History (TH)** required information, such as Original Manufacturer or Exclusive Distributor.
- A YNQ segment for the item level allows the sender to indicate: ○ For items where product was purchased directly:
 - YNQ02 = ‘Y’
 - YNQ08 = ‘99’
 - YNQ09 = ‘DIR’

For transactions that require an indication that a direct purchase statement has been received:

Confirm pertinent to us

- YNQ02 = ‘Y’
- YNQ08 = ‘99’
- YNQ09 = ‘RDPS’

Transaction Information (TI) includes:

- Name of the product (Item-level PID segment – PID05)
- Strength and dosage form (Item-level PID segment – PID05)
- NDC (Item-level LIN segment – Pair qualifier with ID – multiple choices)
- Container size (Item-level PID segment – PID05)
- Number of containers (Item-level SN1 segment – SN102)
- Lot number (Item-level LIN segment - Pair qualifier with ID – multiple choices)
- Transaction date (BSN Segment – BSN03)
- Shipment Date (Shipment-level DTM)*
- Name and address of the seller (Shipment-level “Seller” N1 loop, segments N1, N2, N3, N4)
- Name and address of the purchaser (Shipment-level “Buyer” N1 loop, segments N1, N2, N3, N4)

**Needed if shipment date is more than 24 hours after date of the transaction*

CVSHealth Required Fields

This section provides the EDI standard and technical documentation for the universal (pharmacy and front store) standards. To simplify the process for you, and to facilitate discussion with your business counterparts, below are fields that CVSHealth requires in the 856 transaction. You will need to refer to both this section and the next for complete technical guidelines, but this summary will allow you to focus on exactly what’s needed for a successful 856.

Regulated Rx, DSCSA-Compliant:

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
Confirmed Ship Date	The date on which the manufacturer has confirmed the item(s) has been shipped to the customer.	DTM (Date/Time) Segment, Data Element 374 with a qualifier of '011' for Shipped Date and the date in Data Element 373.	Shipment Level
Estimated Delivery Date	The date on which the distributor is expected to receive the item(s) from manufacturer.	DTM (Date/Time) Segment, Data Element 374 with a qualifier of '017' for Expected Arrival and the date in Data Element 373.	Shipment Level
Carrier Name	The name of the transportation company who will deliver the product from origination to destination or the originating carrier's identity.	TD5 (Carrier Details) Segment, Data Element 387.	Shipment Level
Shipping Location (Ship From)	The address or ID # of the location from where the product is being shipped (Shipping point).	N101 (Name – Ship From) Segment, Data Element 098 with a qualifier of SF for Ship From.	Shipment Level
Shipping Location (Ship To)	The address or ID # of the location to where the product is being shipped.	N101 (Name – Ship From) Segment, Data Element 098 with a qualifier of ST for Ship To.	Shipment Level
Carrier Tracking Number	The number automatically assigned to every shipment to identify and trace it as it travels to its destination.	REF Segment, Data Element 128 contains the qualifier of "CN" for Carrier's Reference Number (PRO/Invoice) and Data Element 127 should contain the carrier tracking number	Shipment Level

DEA Number / Health Industry Number / D&B® D-U-N-S® Number	The DEA number indicates a health care provider's authority to write prescriptions for controlled substances. The Health Industry Number (HIN) is a unique ID for identifying all trading partners. Go to http://www.hibcc.org to obtain your HIN. A D&B® D-U-N-S® Number is a unique nine-digit sequence recognized as the universal standard for identifying businesses worldwide.	N1 (Name – Ship From) Segment, Data Element 098 with a qualifier of "SF" should have Data Element 066 with a qualifier of '1', '9', '11' or '21' and Data element 067 should contain the supplier unique identifier.	Shipment Level
Purchase Order Number	The CVSHealth Purchase Order Number; Written authorization for a supplier to ship products at a specified price, which becomes a legally binding contract once the supplier accepts it.	PRF (Purchase Order Reference) Segment, Data Element 324.	Order Level
NDC Number	The NDC Number associated with each individual item that is used to place orders. DSCSA requires NDC for all non-exempt items.	LIN (Line Identification) Segment, Data Element 234.	Item Level
Ship Quantity	The number of individual pieces shipped to its destination.	SN1 (Item Detail (Shipment)) Segment, Data Element 382.	Item Level
Lot Number	The number assigned to a particular batch of product.	LIN (Line Identification) Segment, Data Element 235 with a qualifier of 'LT' for Lot Number and in Data Element 234 the Lot number.	Item Level
Expiration Date	The date after which the product is not recommended for use.	DTM (Date/Time) Segment, Data Element 374 with a qualifier of '036' for Expiration date	Item Level

Non-RX, Warehouse and/or Store Delivery (General Fields):

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
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Shipping Location (Ship From)	The address or ID # of the location from where the product is being shipped (Shipping point).	N101 (Name – Ship From) Segment, Data Element 098 with a qualifier of SF for Ship From.	Shipment Level
Shipping Location (Ship To)	The address or ID # of the location to where the product is being shipped.	N101 (Name – Ship From) Segment, Data Element 098 with a qualifier of ST for Ship To. Be sure to include either the CVS Warehouse or the Store Number in the N103, Data Element 66.	Shipment Level
Purchase Order Number & Original PO Date	The CVSHealth Purchase Order Number; Written authorization for a supplier to ship products at a specified price, which becomes a legally binding contract once the supplier accepts it.	PRF (Purchase Order Reference) Segment, Data Element 324 and PO Date in Data Element 373.	Order Level
Seller's Invoice Number	Seller's Invoice Number	REF as specified	Order Level
CVS Vendor Number	CVS Vendor Number of trading partner	REF as specified	Order Level
Case and Pack Identifier information	Case UPC and vendor identification as appropriate	LIN as specified	Pack & Inner Pack Level
Pack & Inner Pack Information	Pack packaging, weight, volume and other information.	PO4 as specified	Pack & Inner Pack Levels
Item Identification	Item identification including UPC, CVSHealth Item Number, Vendor's Item Number and/or Catalog Number, and Lot Number as appropriate.	LIN as specified	Item Level
Quantity Shipped	Number of sellable units shipped, shipped to date, and ordered.	SN1 as specified	Item Level
Physical Details of Item	Item physical details including packaging, weight, and volume	PO4 as specified	Item Level

Fill Rate Metrics:

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
Purchase Order Number	The CVSHealth Purchase Order Number; Written authorization for a supplier to ship products at a specified price, which becomes a legally binding contract once the supplier accepts it.	PRF (Purchase Order Reference) Segment, Data Element 324.	Order Level
Sellable Units Per Shipping Container (Case)	Number of sellable Eaches/ Units in the outer Case/ Shipping Container, regardless of Packs or Inner Packs (Case Total).	PO418, Data Element 1470.	Pack Level
Pack Breakdown	<p>Note that the CVSHealth ASN provides for the detail of the parent/child relationship between pack and inner pack.</p> <p>If there are no packs or inner packs, provide the details of the sellable units within the outer container/case.</p> <p>If there are inner containers, provide the quantity and pertinent information related to the inner packs.</p>	PO401-14 as specified	Pack Level
Inner Pack Breakdown	<p>Note that the CVSHealth ASN provides for the detail of the parent/child relationship between pack and inner pack.</p> <p>Provide the quantity and pertinent information related to sellable units found within the inner packs.</p>	PO401-14 as specified	Inner Pack Level

Imports:

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
Free-On-Board (FOB)	The date on which the manufacturer has confirmed the item(s) has been shipped to the customer.	DTM (Date/Time) Segment, Data Element 374 with a qualifier of '011' for Shipped Date and the date in Data Element 373.	Shipment Level

Hazardous Materials Reporting:

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
Hazardous Material Identification & Quantity	The identification, packaging, and quantity of hazardous materials with regulatory numbers and contact information.	LH1, LH2, LH3, LFH and PER as specified.	Shipment, Tare, Pack and/or Item Levels as appropriate

Bar Codes & Labels:

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
GS1-128 Label ID	GS1 SSCC-18 and Application Identifier that matches the GS1-128 shipping label.	MAN01 and 02, Data Elements 88 and 87	Tare, Pack, Inner Pack and Item Levels

Transportation Freight :

Data Element	Business Definition	Maps to Technical Guideline...	Hierarchical Level Within the ASN
Confirmed Ship Date	The date on which the manufacturer has confirmed the item(s) has been shipped to the customer.	DTM (Date/Time) Segment, Data Element 374 with a qualifier of '011' for Shipped Date and the date in Data Element 373.	Shipment Level

Estimated Delivery Date	The date on which the distributor is expected to receive the item(s) from manufacturer.	DTM (Date/Time) Segment, Data Element 374 with a qualifier of '017' for Expected Arrival and the date in Data Element 373.	Shipment Level
Carrier Name	The name of the transportation company who will deliver the product from origination to destination or the originating carrier's identity.	TD5 (Carrier Details) Segment, Data Element 387.	Shipment Level
Carrier Tracking Number	The number automatically assigned to every shipment to identify and trace it as it travels to its destination.	REF Segment, Data Element 128 contains the qualifier of "CN" for Carrier's Reference Number (PRO/Invoice) and Data Element 127 should contain the carrier tracking number	Shipment Level
Bill of Lading/Shipment ID	Vendor Bill of Lading or other shipment identifier.	BSN 02, Data Element 396	Shipment Level
Carrier Details (Quantity & Weight)	Provide pertinent carrier information including packaging code, lading quantity, weight and volume, refrigeration requirements, and shipping dates.	TD1, TD5, TD3, REF, and DTM as specified.	Shipment Level
Shipping Location (Ship From)	The address or ID # of the location from where the product is being shipped (Shipping point).	N101 (Name – Ship From) Segment, Data Element 098 with a qualifier of SF for Ship From.	Shipment Level
Shipping Location (Ship To)	The address or ID # of the location to where the product is being shipped.	N101 (Name – Ship From) Segment, Data Element 098 with a qualifier of ST for Ship To.	Shipment Level
Carrier Details, Order Level	Generally the number of pallets related to the order with quantity, weights and volumes.	TD1 as specified	Order Level
Pallet Information	Pallet type, weight, and volumes	PAL as specified	Tare Level

CVSHealth ASN EDI Standard:

856 Ship Notice/Manifest

Functional Group ID=**SH**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
						200000	
M	010	HL	Hierarchical Level - SHIPMENT LEVEL	M	1		c1
Must Use	110	TD1	Carrier Details (Quantity and Weight) - SHIPMENT LEVEL	O	>1		
Must Use	120	TD5	Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL	O	>1		
Must Use	130	TD3	Carrier Details (Equipment) - SHIPMENT LEVEL	O	>1		
Must Use	150	REF	Reference Identification - SHIPMENT LEVEL	O	>1		
						100	
Must Use	152	LH1	Hazardous Identification Information - SHIPMENT LEVEL	O	1		
Must Use	153	LH2	Hazardous Classification Information - SHIPMENT LEVEL	O	4		
Must Use	154	LH3	Hazardous Material Shipping Name - SHIPMENT LEVEL	O	12		
Must Use	155	LFH	Freeform Hazardous Material Information - SHIPMENT LEVEL	O	20		
Must Use	160	PER	Administrative Communications Contact - SHIPMENT LEVEL	O	5		
Must Use	200	DTM	Date/Time Reference - SHIPMENT LEVEL	O	>1		
Must Use	210	FOB	F.O.B. Related Instructions	O	1		
						200	
Must Use	220	N1	Name - SHIP FROM - SHIPMENT LEVEL	O	1		
Must Use	230	N2	Additional Name Information - SHIPMENT LEVEL	O	2		
Must Use	240	N3	Address Information - SHIPMENT LEVEL	O	2		
Must Use	250	N4	Geographic Location - SHIPMENT LEVEL	O	1		
Must Use	260	REF	Reference Identification - SHIPMENT LEVEL	O	12		
Must Use	270	PER	Administrative Communications Contact - SHIPMENT LEVEL	O	3		

		LOOP ID - N1			200
	220	N1	Name - SELLER - SHIPMENT LEVEL	O	1
	230	N2	Additional Name Information - SHIPMENT LEVEL	O	2
	240	N3	Address Information - SHIPMENT LEVEL	O	2
	250	N4	Geographic Location - SHIPMENT LEVEL	O	1
	260	REF	Reference Identification - SHIPMENT LEVEL	O	12
	270	PER	Administrative Communications Contact - SHIPMENT LEVEL	O	3
		LOOP ID - N1			200
Must Use	220	N1	Name - SHIP TO - SHIPMENT LEVEL	O	1
Must Use	230	N2	Additional Name Information - SHIPMENT LEVEL	O	2
Must Use	240	N3	Address Information - SHIPMENT LEVEL	O	2
Must Use	250	N4	Geographic Location - SHIPMENT LEVEL	O	1
Must Use	260	REF	Reference Identification - SHIPMENT LEVEL	O	12
		LOOP ID - N1			200
	220	N1	Name - BUYER - SHIPMENT LEVEL	O	1
	230	N2	Additional Name Information - SHIPMENT LEVEL	O	2
	240	N3	Address Information - SHIPMENT LEVEL	O	2
	250	N4	Geographic Location - SHIPMENT LEVEL	O	1
	260	REF	Reference Identification - SHIPMENT LEVEL	O	12
Must Use	335	YNQ	Yes/No Question - SHIPMENT LEVEL	O	>1
Must Use	335	YNQ	Yes/No Question - SHIPMENT LEVEL	O	>1
M	010	HL	Hierarchical Level - ORDER LEVEL	M	>1
Must Use	050	PRF	Purchase Order Reference - ORDER LEVEL	O	>1
M	110	TD1	Carrier Details (Quantity and Weight) - ORDER LEVEL	M	>1
M	150	REF	Reference Identification - ORDER LEVEL	M	>1
M	010	HL	Hierarchical Level - TARE LEVEL	M	>1
M	150	REF	Reference Identification - TARE LEVEL	M	>1
		LOOP ID - LH1			100
Must Use	152	LH1	Hazardous Identification Information - TARE LEVEL	O	1
Must Use	153	LH2	Hazardous Classification Information -TARE LEVEL	O	4
Must Use	154	LH3	Hazardous Material Shipping Name -TARE LEVEL	O	12
Must Use	155	LFH	Freeform Hazardous Material Information - TARE LEVEL	O	20
Must Use	160	PER	Administrative Communications Contact - TARE LEVEL	O	5
M	190	MAN	Marks and Numbers - TARE LEVEL	M	>1
M	215	PAL	Pallet Information - TARE LEVEL	M	1
M	010	HL	Hierarchical Level - PACK LEVEL	M	1
M	020	LIN	Item Identification - PACK LEVEL	M	1
M	060	PO4	Item Physical Details - PACK LEVEL	M	1
M	150	REF	Reference Identification - PACK LEVEL	M	>1
		LOOP ID - LH1			100

Must Use	152	LH1	Hazardous Identification Information - PACK LEVEL	O	1
Must Use	153	LH2	Hazardous Classification Information - PACK LEVEL	O	4
Must Use	154	LH3	Hazardous Material Shipping Name - PACK LEVEL	O	12
Must Use	155	LFH	Freeform Hazardous Material Information - PACK LEVEL	O	20
	160	PER	Administrative Communications Contact - PACK LEVEL	O	5
M	190	MAN	Marks and Numbers - PACK LEVEL	M	>1
Must Use	200	DTM	Date/Time Reference - PACK LEVEL	O	10
M	010	HL	Hierarchical Level - INNER PACK LEVEL	M	1
Must Use	020	LIN	Item Identification - INNER PACK LEVEL	O	1
Must Use	060	PO4	Item Physical Details - INNER PACK LEVEL	O	1
M	150	REF	Reference Identification - INNER PACK LEVEL	M	>1
	190	MAN	Marks and Numbers - INNER PACK LEVEL	O	>1
Must Use	200	DTM	Date/Time Reference - INNER PACK LEVEL	O	10
M	010	HL	Hierarchical Level - ITEM LEVEL	M	1
LOOP ID - LH1					100
Must Use	152	LH1	Hazardous Identification Information - ITEM LEVEL	O	1
Must Use	153	LH2	Hazardous Classification Information - ITEM LEVEL	O	4
Must Use	154	LH3	Hazardous Material Shipping Name - ITEM LEVEL	O	12
Must Use	155	LFH	Freeform Hazardous Material Information - ITEM LEVEL	O	20
Must Use	160	PER	Administrative Communications Contact - ITEM LEVEL	O	5
Must Use	020	LIN	Item Identification - ITEM LEVEL	O	1
Must Use	030	SN1	Item Detail (Shipment) - ITEM LEVEL	O	1
Must Use	060	PO4	Item Physical Details - ITEM LEVEL	O	1
Must Use	070	PID	Product/Item Description - ITEM LEVEL	O	200
Must Use	150	REF	Reference Identification - ITEM LEVEL	O	>1
Must Use	200	DTM	Date/Time Reference - ITEM LEVEL	O	10
Must Use	220	N1	Name - ITEM LEVEL	O	1
Must Use	230	N2	Additional Name Information - ITEM LEVEL	O	2
Must Use	240	N3	Address Information - ITEM LEVEL	O	2
Must Use	250	N4	Geographic Location - ITEM LEVEL	O	1
Must Use	260	REF	Reference Identification - ITEM LEVEL	O	12
Must Use	335	YNQ	Yes/No Question - ITEM LEVEL	O	>1

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	010	CTT	Transaction Totals	O	1		n1
M	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **BSN** Beginning Segment for Ship Notice
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
 2 BSN04 is the time the shipment transaction set is created.
 3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment Vendor Bill of Lading number or other shipment identifier	M AN 2/30
M	BSN03	373	Date Date expressed as CCYYMMDD Document create date	M DT 8/8
M	BSN04	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M TM 4/8
Must Use	BSN05	1005	Hierarchical Structure Code Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set Code Name 0001 Shipment, Order, Packaging, Item 0004 Shipment, Order, Item Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 4/4

Segment: **HL** Hierarchical Level - SHIPMENT LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2
	HL04	736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described 1 Additional Subordinate HL Data Segment in This Hierarchical Structure Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **TD1** Carrier Details (Quantity and Weight) - SHIPMENT LEVEL
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments:

Notes: TD1*CTN*101****G*2555.113*LB~

Data Element Summary

	Ref.	Data	Name	Attributes
	Des.	Element		
Must Use	TD101	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required CAS Case CTN Carton PLT Pallet TBN Tote / Bin PLT is applicable to all Non-RX warehouse shipments. The other codes may apply to RX items and Store shipments. Refer to 004010 Data Element Dictionary for acceptable code values.	O AN 3/5
Must Use	TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	X N0 1/7
Must Use	TD106	187	Weight Qualifier Code defining the type of weight G Gross Weight Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
Must Use	TD107	81	Weight Numeric value of weight	X R 1/10
Must Use	TD108	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
Must Use	TD109	183	Volume Value of volumetric measure	X R 1/8
Must Use	TD110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CF Shipment Cube Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.
- 4 If TD510 is present, then TD511 is required.
- 5 If TD513 is present, then TD512 is required.
- 6 If TD514 is present, then TD513 is required.
- 7 If TD515 is present, then TD512 is required.

Semantic Notes:

- 1 TD515 is the country where the service is to be performed.

Comments:

- 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Notes: TD5*B*2*RBTW*M*Old Dominion Frieght Line~

Data Element Summary

Ref.	Data Element	Name	Attributes
Must Use	TD501	133 Routing Sequence Code	O ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement	
		B Origin Carrier (Any)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	TD502	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		2 Standard Carrier Alpha Code (SCAC)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	TD503	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		Standard Carrier Abbreviation Code (SCAC)	
Must Use	TD504	91 Transportation Method/Type Code	X ID 1/2
		Code specifying the method or type of transportation for the shipment	
		A Air	
		AE Air Express	
		M Motor (Common Carrier)	
		R Rail	
		S Ocean	
		SR Supplier Truck	
		U Private Parcel Sevice	
		X Intermodal (Piggyback)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	TD505	387 Routing	X AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	

Carrier's Identity

Segment: **TD3** Carrier Details (Equipment) - SHIPMENT LEVEL
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:

- 1 Only one of TD301 or TD310 may be present.
- 2 If TD302 is present, then TD303 is required.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:

Comments:

Notes: TD3*TL**1234567890~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	TD301	40 Equipment Description Code	X ID 2/2
		Code identifying type of equipment used for shipment	
		CN Container	
		CZ Refridgerated Container	
		RT Controlled Temp Trailer (Reefer)	
		TL Trailer (not otherwise specified)	
		VE Vessel, Ocean	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	TD303	207 Equipment Number	X AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
		Trailer Number / Air Bill Number	

Segment: **REF** Reference Identification - SHIPMENT LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes:

A total of three REF segments may be used within this loop, as defined below. A Carrier Reference Number (PRO/Invoice) and Bill of Lading Number are mandatory. An additional tracking number may also be provided optionally.

Example:

```
REF*CN*14783516~
REF*BM*78954132~
REF*2I*1238796~
```

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CN Carrier's Reference Number (PRO/Invoice) BM Bill of Lading Number 2I Tracking Number (Optional) Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Carrier's Reference Number, if REF01 = CN Bill of Lading Number, if REF01 = BM Tracking Number, if REF01 = 2I (Optional)	X AN 1/30

Segment: **LH1** Hazardous Identification Information - SHIPMENT LEVEL
Position: 152
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: This segment is Optional, Must Use for hazardous materials. HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

Data Element Summary

Ref.	Data	Element	Name	Attributes
M	LH101	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken 05 Lifts CH Container CP Crate GD Gross Barrels PK Package PL Pallet/Unit Load SV Skid SX Shipment TC Truckload TE Tote TP Ten-pack TY Tray UN Unit	M ID 2/2
M	LH102	80	Lading Quantity Number of units (pieces) of the lading commodity	M N0 1/7
Must Use	LH103	277	UN/NA Identification Code Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	O ID 6/6
Must Use	LH106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken 01 Actual Pounds 06 Digits (Expresses a value using total number of digits e.g. 6 digits) 1N Count	O ID 2/2

22 Deciliter per Gram (Represents viscosity Cuene intrinsic viscosity and limit intrinsic viscosity)
 23 Grams per Cubic Centimeter (Represents product density)
 24 Theoretical Pounds
 25 Grams per Square Centimeter (Represents product basis weight)
 26 Actual Tons
 C5 Cost
 DB Dry Pounds
 DF Dram
 EA Each
 GA Gallon
 GC Grams per 100 Grams
 GD Gross Barrels
 GE Pounds per Gallon
 GH Half Gallon
 GI Imperial Gallons
 GN Gross Gallons
 GR Gram
 GS Gross
 KD Kilograms Decimal
 KG Kilogram
 KI Kilograms/Millimeter Width
 KK 100 Kilograms
 KL Kilograms/Meter
 KX Milliliters per Kilogram
 LB Pound
 LP Liquid Pounds
 MB Millimeter-Nominal
 MC Microgram
 ME Milligram
 MH Microns (Micrometers: 1/1,000,000 meter)
 MI Metric
 MK Milligrams Per Square Inch
 ML Milliliter
 MM Millimeter
 MW Metric Ton Kilograms
 PM Pounds-Percentage
 PN Pounds Net
 UN Unit
 US Dosage Form
 UT Inhalation
 UU Lozenge
 UV Percent Topical Only (A measure of medication intended only for external use)
 UW Milliequivalent
 UX Dram (Minim)
 VP Percent Volume

Refer to 004010 Data Element Dictionary for acceptable code values.

Must Use	LH107	380	Quantity	O R 1/15
			Numeric value of quantity	
Must Use	LH108	595	Compartment ID Code	O ID 1/1
			Code identifying the compartment in a compartmentalized tank car	

Must Use	LH109	665	Residue Indicator Code	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values. Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded	
Must Use	LH110	254	Packing Group Code	O ID 1/3
			Refer to 004010 Data Element Dictionary for acceptable code values. Code indicating degree of danger in terms of Roman number I, II or III	
Must Use	LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5
			Identifies the current regulatory version number used for hazardous materials shipments	

Segment: **LH2** Hazardous Classification Information - SHIPMENT LEVEL
Position: 153
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes:

- 1 If either LH206 or LH207 is present, then the other is required.
- 2 If either LH208 or LH209 is present, then the other is required.
- 3 If either LH210 or LH211 is present, then the other is required.

Semantic Notes:

- 1 LH206 and LH207 indicate the flashpoint temperature.
- 2 LH208 and LH209 indicate the control temperature.
- 3 LH210 and LH211 indicate the emergency temperature.

Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O ID 1/30
Must Use	LH202	983	Hazardous Class Qualifier Code qualifying hazardous class P Primary S Secondary	O ID 1/1
Must Use	LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O ID 14/40
Must Use	LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O ID 4/25
Must Use	LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance RQ Reportable Quantity	O ID 2/2

Segment: **LH3** Hazardous Material Shipping Name - SHIPMENT LEVEL
Position: 154
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	LH301	224 Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
Must Use	LH302	984 Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
		I International Shipping Name	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	LH303	985 N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	
		NOS N.O.S. Regulatory Requirements Apply	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LFH** Freeform Hazardous Material Information - SHIPMENT LEVEL
Position: 155
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments
Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.
Semantic Notes: 1 LFH06 indicates activity of the radioactive material.
 2 LFH07 indicates transport index of the radioactive material.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	LFH01	808	Hazardous Material Shipment Information Qualifier	M ID 3/3
			Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
			ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
			CAO Cargo Airlift Only	
			DWW Dangerous When Wet Declaration	
			EMS Emergency Schedule (EMS) Page Number	
			HZC Hazardous Substance Constituents	
			INH Inhalation Hazard	
			LQY Limited Quantity Declaration	
			MFA Medical First Aid Guide (MFAG) Page Number	
			MPI Marine Pollutant	
			PIH Poison - Inhalation Hazard Declaration	
			POI Poison Declaration	
			RAM Radioactive Material Data	
			TEC Technical or Chemical Group Name	
			TNM Trade Name	
			WST Waste Declaration	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LFH02	809	Hazardous Material Shipment Information	M AN 1/25
			Specific information required by law for hazardous material shipments	
Must Use	LFH03	809	Hazardous Material Shipment Information	O AN 1/25
			Specific information required by law for hazardous material shipments	
Must Use	LFH04	1023	Hazard Zone Code	O ID 1/1
			Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone	
			A Hazard Zone A	
			B Hazard Zone B	
			C Hazard Zone C	
			D Hazard Zone D	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PER** Administrative Communications Contact - SHIPMENT LEVEL
Position: 160
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 5
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Must use for Labelled Hazmat Products.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named HM Hazardous Material Contact	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PER02	93	Name	O AN 1/60
			Free-form name	
Must Use	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number TE Telephone	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable A valid telephone number must be provided.	
Must Use	PER05	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number EM Electronic Mail	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PER06	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable A valid email address must be provided.	

Segment: **DTM** Date/Time Reference - SHIPMENT LEVEL
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: The Date Shipped and Current Scheduled Delivery Date should be provided in two reoccurring DTM segments.

Example:
 DTM*011*20170130~
 DTM*067*20170202~

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			011 Date Shipped	
			067 Current Scheduled Delivery Date	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	DTM02	373	Date	M DT 8/8
			Date expressed as CCYYMMDD	

Segment: **FOB** F.O.B. Related Instructions
Position: 210
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify transportation instructions relating to shipment
Syntax Notes:

- 1 If FOB03 is present, then FOB02 is required.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

Semantic Notes:

- 1 FOB01 indicates which party will pay the carrier.
- 2 FOB02 is the code specifying transportation responsibility location.
- 3 FOB06 is the code specifying the title passage location.
- 4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Comments:

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges CC Collect PP Prepaid (By Seller) PU Pickup by CVSHealth Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
Must Use	FOB02	309	Location Qualifier Code identifying type of location OR Origin (Shipping Point) PS 5-Digit US Zip Code PU 6-Digit Canadian Postal Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
Must Use	FOB03	352	Description A free-form description to clarify the related data elements and their content A general, free form message regarding FOB status of the shipment. Example: "At Dock"	O AN 1/80
Must Use	FOB04	334	Transportation Terms Qualifier Code Code identifying the source of the transportation terms 02 Trade Terms Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Must Use	FOB05	335	Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility FOB Free on Board Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 3/3

Segment: **N1** Name - SHIP FROM - SHIPMENT LEVEL
Position: 220
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes: The Ship From location information should be the DEA number for Rx products. For Nox RX, DUNS Nuber (or DUNS +4) should be used.

 Example:
 N1*SF*BRICKS & MORTAR CO*9*0309999234569~
 N1*SF*COGEN PHARMA*11*ZZ3897564~

 Ship From N1-N2-N3-N4-REF-PER-PER-PER

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SF Ship From Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
Must Use	N102	93	Name Free-form name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 11 Drug Enforcement Administration (DEA) Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
Must Use	N104	67	Identification Code Code identifying a party or other code	X AN 2/80

Segment: N2 Additional Name Information - SHIPMENT LEVEL
Position: 230
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name If RX, DEA Number, If Non-RX GLN if Available	M AN 1/60
Must Use	N202	93	Name Free-form name GLN If available for RX Products. Not used for Non-RX	O AN 1/60

Segment: N3 Address Information - SHIPMENT LEVEL
Position: 240
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*219 MAIN ST*BACK DOOR~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N301	166	Address Information Address information	M AN 1/55
Must Use	N302	166	Address Information Address information	O AN 1/55

Segment: **N4** Geographic Location - SHIPMENT LEVEL
Position: 250
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*CHICAGO*IL*60614~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	N401	19	City Name Free-form text for city name	O AN 2/30
Must Use	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
Must Use	N404	26	Country Code Code identifying the country	O ID 2/3

Segment: **REF** Reference Identification - SHIPMENT LEVEL
Position: 260
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Must Use for regulated Rx/DSCSA orders.
 Example: REF*FW*IL2468001*IL~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number. FW State License Identification Number A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NABP or State License ID Number, aligned with qualifier used in REF01.	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Standard 2-character abbreviation for the state in which the License Number is applicable.	X AN 1/80

Segment: **PER** Administrative Communications Contact - SHIPMENT LEVEL
Position: 270
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Contact information is Required for Shipping, EDI and a general Business contact. 3 recurring PER segments required.

Example:

```

PER*CN*JOE JONES*TE*18003217654*EM*JJONES@SUPPLIER.COM~
PER*EA*JOE JONES*TE*18003217654*EM*JJONES@SUPPLIER.COM~
PER*SD*JOE JONES*TE*18003217654*EM*JJONES@SUPPLIER.COM~
  
```

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		CN General Contact	
		EA EDI Coordinator	
		SD Shipping Department	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PER02	93 Name	O AN 1/60
		Free-form name	
Must Use	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		TE Telephone	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
		A valid telephone number must be provided.	
Must Use	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		EM Electronic Mail	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PER06	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
		A valid email address must be provided.	

Segment: **N1** Name - SELLER - SHIPMENT LEVEL
Position: 220
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes: Must use for DSCSA / RX Products.
 For other applications should use if Seller is different then Ship From.

 The Ship From location information should be the DEA number for Rx products. For Nox RX, DUNS Nuber (or DUNS +4) should be used.

 Example:
 N1*SF*BRICKS & MORTAR CO*9*0309999234569~
 N1*SF*COGEN PHARMA*11*ZZ3897564~

 Seller N1-N2-N3-N4-REF-PER

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		SE Selling Party Used only when the owner is different than the ship from entity.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	
		11 Drug Enforcement Administration (DEA)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	

Segment: N2 Additional Name Information - SHIPMENT LEVEL
Position: 230
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data Des.	Element	Name	Attributes
				M AN 1/60
M	N201	93	Name Free-form name If RX, DEA Number, If Non-RX GLN if Available	M AN 1/60
	N202	93	Name Free-form name GLN If available for RX Products. Not used for Non-RX	O AN 1/60

Segment: N3 Address Information - SHIPMENT LEVEL
Position: 240
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*300 SuzyQ Drive*SIDE DOOR~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4** Geographic Location - SHIPMENT LEVEL
Position: 250
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*CHICAGO*IL*60614~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
N404	26	Country Code	O ID 2/3
		Code identifying the country	

Segment: **REF** Reference Identification - SHIPMENT LEVEL
Position: 260
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Must Use for regulated Rx/DSCSA orders.
 Example: REF*FW*IL2468001*IL~

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number. FW State License Identification Number A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NABP or State License ID Number, aligned with qualifier used in REF01.	X AN 1/30
REF03	352	Description A free-form description to clarify the related data elements and their content Standard 2-character abbreviation for the state in which the License Number is applicable.	X AN 1/80

Segment: **PER** Administrative Communications Contact - SHIPMENT LEVEL
Position: 270
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

General contact information.

Example:

PER*CN*JANUARY JONES*TE*18003217654*EM*JJONES@SUPPLIER.COM~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named CN General Contact	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER02	93 Name	O AN 1/60
		Free-form name	
	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number TE Telephone	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid telephone number must be provided.	
	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number EM Electronic Mail	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER06	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid email address must be provided.	

Segment: **N1** Name - SHIP TO - SHIPMENT LEVEL
Position: 220
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.

Notes: CVS Ship To locations may include warehouse or store information depending on the nature of order fulfillment. The DEA number should be used for Rx warehouse shipments and the CVS Warehouse code for non-RX. Non-Rx store deliveries should include the CVS store number while Rx deliveries should include both the store number (N1) and related DEA number (N2).

The GS1-US Global Location Number (GLN) will also be available for use for both warehouse and store locations in the future. CVS EDI will notify the partner community when those codes are available for use. GLN to be populated in the following N2 segment.

Examples:
 Warehouse, RX: N1*ST*CVS*11*RC0314891~
 Warehouse, non-RX: N1*ST*CVS*54*I202~
 Store, RX & non-RX: N1*ST*CVS 5729*92*05729~
 Ship From N1-N2-N3-N4-REF

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual ST Ship To Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
Must Use	N102	93	Name Free-form name	X AN 1/60
Must Use	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 11 Drug Enforcement Administration (DEA) 54 Warehouse Number 92 CVS Store Number Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2

Must Use	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	

Segment: N2 Additional Name Information - SHIPMENT LEVEL
Position: 230
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: If Rx Store ASN, provide the DEA number associated with the store number.

Example: N2*AR3063283~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name	M AN 1/60
			Free-form name	
			DEA Number if RX Product	
			GLN If Non-RX	
Must Use	N202	93	Name	O AN 1/60
			Free-form name	
			GLN If RX Product and GLN is available in addition to DEA number. Not used if Non-RX Product.	

Segment: N3 Address Information - SHIPMENT LEVEL
Position: 240
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*100 CVS Center Dr ~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
Must Use	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location - SHIPMENT LEVEL**
Position: 250
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*WOONSOCKET*RI*02895~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Must Use	N401	19	City Name Free-form text for city name	O AN 2/30
Must Use	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
Must Use	N404	26	Country Code Code identifying the country	O ID 2/3

Segment: **REF** Reference Identification - SHIPMENT LEVEL
Position: 260
Loop: N1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Must Use for regulated Rx/DSCSA orders.
 Example: REF*FW*IL2468001*IL~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number. FW State License Identification Number A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NABP or State License ID Number, aligned with qualifier used in REF01.	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Standard 2-character abbreviation for the state in which the License Number is applicable.	X AN 1/80

Segment: **N1** Name - BUYER - SHIPMENT LEVEL
Position: 220
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes: Must use for DSCSA / RX Products. For other applications, should use if Buyer is different then Ship To.

CVS Ship To locations may include warehouse or store information depending on the nature of order fulfillment. The DEA number should be used for Rx warehouse shipments and the CVS Warehouse code for non-RX. Non-Rx store deliveries should include the CVS store number while Rx deliveries should include both the store number (N1) and related DEA number (N2).

The GS1-US Global Location Number (GLN) will also be available for use for both warehouse and store locations in the future. CVS EDI will notify the partner community when those codes are available for use. GLN to be populated in the following N2 segment.

Examples:
Warehouse, RX: N1*ST*CVS*11*RC0314891~
Warehouse, non-RX: N1*ST*CVS*54*I202~
Store, RX & non-RX: N1*ST*CVS 5729*92*05729~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		BY Buying Party	
		Buyer N1-N2-N3-N4-REF	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	N102	93 Name	X AN 1/60
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		1 D-U-N-S Number, Dun & Bradstreet	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix	

11 Drug Enforcement Administration (DEA)
54 Warehouse Code
92 CVS Store Number

Refer to 004010 Data Element Dictionary for acceptable code values.

N104 **67** **Identification Code** **X AN 2/80**
Code identifying a party or other code

Segment: N2 Additional Name Information - SHIPMENT LEVEL
Position: 230
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

If Rx Store ASN, provide the DEA number associated with the store number.
 Example: N2*AR3063283~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93 Name Free-form name UCC/EAN Location Code Used for GS1-US Global Location Number (GLN). Standard 13-digit GLNs are used in business to business transactions. The UL qualifier does not support the serialized GLN unless the serial number is truncated from the serialized GLN to result in the standard 13-digit GLN.	M AN 1/60
	N202	93 Name Free-form name	O AN 1/60

Segment: N3 Address Information - SHIPMENT LEVEL
Position: 240
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*100 CVS Center Dr ~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	N301	166	Address Information Address information	M AN 1/55
	N302	166	Address Information Address information	O AN 1/55

Segment: **N4** Geographic Location - SHIPMENT LEVEL
Position: 250
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*WOONSOCKET*RI*02895~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name	O AN 2/30
		Free-form text for city name	
N402	156	State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
N403	116	Postal Code	O ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	
N404	26	Country Code	O ID 2/3
		Code identifying the country	
N405	309	Location Qualifier	X ID 1/2
		Code identifying type of location	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
N406	310	Location Identifier	O AN 1/30
		Code which identifies a specific location	

Segment: **REF** Reference Identification - SHIPMENT LEVEL
Position: 260
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Must Use for regulated Rx/DSCSA orders.
 Example: REF*FW*IL2468001*IL~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number. FW State License Identification Number A unique number assigned to each provider of service; this number is assigned by state governments and is the provider's legal identification number in the state that is assigned Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier NABP or State License ID Number, aligned with qualifier used in REF01.	X AN 1/30
	REF03	352	Description A free-form description to clarify the related data elements and their content Standard 2-character abbreviation for the state in which the License Number is applicable.	X AN 1/80

Segment:	YNQ Yes/No Question - SHIPMENT LEVEL
Position:	335
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	>1
Purpose:	To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition
Syntax Notes:	<ol style="list-style-type: none"> 1 Only one of YNQ01 YNQ09 or YNQ10 may be present. 2 If either YNQ03 or YNQ04 is present, then the other is required. 3 If YNQ09 is present, then YNQ08 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied. 2 YNQ10 contains a free-form question when codified questions are not available.
Comments:	
Notes:	<p>This field is Optional, Must Use for Rx items. The YNQ02 should have a value of 'Y' if DSCSA applies and for shipments with only exempt products, the YNQ02 should have a value of 'N', which indicates that DSCSA does not apply. This allows CVS compliance validation code to ignore the DSCSA criteria for the exempt shipments</p> <p>Example1, DSCSA: YNQ*CX*Y***Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).***99*TS~</p> <p>Example1, non- DSCSA: YNQ*CX*N~</p>

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	YNQ01	1321	Condition Indicator Code indicating a condition CX Certification Status Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
M	YNQ02	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response Y Yes "Y" indicates that the transaction is DSCSA compliant. N No "N" indicates that the transaction is DSCSA exempt. Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1
Must Use	YNQ05	933	Free-Form Message Text Free-form message text Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).	O AN 1/264
Must Use	YNQ06	933	Free-Form Message Text Free-form message text	O AN 1/264
Must Use	YNQ07	933	Free-Form Message Text Free-form message text	O AN 1/264
Must Use	YNQ08	1270	Code List Qualifier Code	X ID 1/3

		Code identifying a specific industry code list
		99 Purpose Code
		Refer to 004010 Data Element Dictionary for acceptable code values.
YNQ09	1271	Industry Code X AN 1/30
		Code indicating a code from a specific industry code list
		TS Transaction Statement

Segment: **YNQ** Yes/No Question - SHIPMENT LEVEL
Position: 335
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:

- 1 Only one of YNQ01 YNQ09 or YNQ10 may be present.
- 2 If either YNQ03 or YNQ04 is present, then the other is required.
- 3 If YNQ09 is present, then YNQ08 is required.

Semantic Notes:

- 1 YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
- 2 YNQ10 contains a free-form question when codified questions are not available.

Comments:

Notes: This field is Optional, Must Use for Rx items. Must use if Product is a Direct Purchase and YNQ02 should have a value of 'Y' which indicates that DSCSA applies as applicable.

Example:

YNQ**Y***As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer.***99*DPS~

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	YNQ01	1321	Condition Indicator Code indicating a condition CX Certification Status Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
M	YNQ02	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response Y Yes YNQ05 includes Direct Purchase Statement Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1
	YNQ05	933	Free-Form Message Text Free-form message text As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer.	O AN 1/264
Must Use	YNQ08	1270	Code List Qualifier Code Code identifying a specific industry code list 99 Purpose Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/3
Must Use	YNQ09	1271	Industry Code Code indicating a code from a specific industry code list DPS Direct Purchase Statement	X AN 1/30

Segment: **HL** Hierarchical Level - ORDER LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*2**O*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		O Order	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	HL04	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PRF** Purchase Order Reference - ORDER LEVEL
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: 1 PRF04 is the date assigned by the purchaser to purchase order.
Comments:
Notes:

Semantic Notes:
 1. PRF04 is the date assigned by the purchaser to purchase order.
 Example: PRF*1234567***20140130~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324 Purchase Order Number	M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser	
		CVSHealth Purchase Order Number	
	PRF02	328 Release Number	O AN 1/30
		Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	
M	PRF04	373 Date	M DT 8/8
		Date expressed as CCYYMMDD	
		Original Purchase Order Date	

Segment: **TD1** Carrier Details (Quantity and Weight) - ORDER LEVEL
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes:

Comments:

Notes: TD1*CTN*101****G*2555.113*LB~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	TD101	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required CAS Case CTN Carton (Used for Displays Only) TBN Tote / Bin PLT is applicable to all Non-RX warehouse shipments. The other codes may apply to RX items and Store shipments. Refer to 004010 Data Element Dictionary for acceptable code values.	M AN 3/5
M	TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	M N0 1/7
Must Use	TD106	187	Weight Qualifier Code defining the type of weight G Gross Weight Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/2
Must Use	TD107	81	Weight Numeric value of weight	O R 1/10
Must Use	TD108	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
Must Use	TD109	183	Unit or Basis for Measurement Code Value of volumetric measure	O R 1/8
Must Use	TD110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CF Shipment Cube Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: **REF** Reference Identification - ORDER LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Two REF segments related to the Order Level are required. The first provides the CVS Vendor Number and the second the Vendors Invoice Number related to the ASN.

Examples:
 CVS Vendor Number, REF*VN*99999
 Vendors Invoice Number, REF*IV*IN123456~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification IV Seller's Invoice Number VN Vendor Number Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Seller's Invoice Number or Vendor Number as aligned to the REF01	M AN 1/30
M	REF03	352	Description A free-form description to clarify the related data elements and their content	M AN 1/80

Segment: **HL** Hierarchical Level - TARE LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*3*2*T*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure T Shipping Tare Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described 1 Additional Subordinate HL Data Segment in This Hierarchical Structure Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **REF** Reference Identification - TARE LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Must use for RX

Notes: Use this REF only for serialization, using GS1 EPC.

Example: REF*SE**urn:epc:id:sscc:0309440.00000.00045~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SE Serial Number Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
M	REF02	127	Description A free-form description to clarify the related data elements and their content Serial Number in GS1 EPC format.	M AN 1/30

Segment: **LH1** Hazardous Identification Information - TARE LEVEL
Position: 152
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: This segment is Optional, Must Use for hazardous materials. HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	LH101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CH Container	
		CP Crate	
		GD Gross Barrels	
		PK Package	
		PL Pallet/Unit Load	
		SV Skid	
		TE Tote	
		TP Ten-pack	
		TY Tray	
		UN Unit	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LH102	80 Lading Quantity	M N0 1/7
		Number of units (pieces) of the lading commodity	
	LH103	277 UN/NA Identification Code	O ID 6/6
		Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
	LH104	200 Hazardous Materials Page	O AN 1/6
		The United Nations page number as required for the international transport of hazardous materials	
	LH106	355 Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		01 Actual Pounds	
		04 Small Spray	
		06 Digits (Expresses a value using total number of digits e.g. 6 digits)	
		1N Count	

22 Deciliter per Gram (Represents viscosity Cuene intrinsic viscosity and limit intrinsic viscosity)
 23 Grams per Cubic Centimeter (Represents product density)
 24 Theoretical Pounds
 25 Grams per Square Centimeter (Represents product basis weight)
 26 Actual Tons
 C5 Cost
 DB Dry Pounds
 DF Dram
 EA Each
 GA Gallon
 GC Grams per 100 Grams
 GD Gross Barrels
 GE Pounds per Gallon
 GH Half Gallon
 GI Imperial Gallons
 GN Gross Gallons
 GR Gram
 GS Gross
 KD Kilograms Decimal
 KG Kilogram
 KI Kilograms/Millimeter Width
 KK 100 Kilograms
 KL Kilograms/Meter
 KX Milliliters per Kilogram
 LB Pound
 LP Liquid Pounds
 MB Millimeter-Nominal
 MC Microgram
 ME Milligram
 MH Microns (Micrometers: 1/1,000,000 meter)
 MI Metric
 MK Milligrams Per Square Inch
 ML Milliliter
 MM Millimeter
 MW Metric Ton Kilograms
 PM Pounds-Percentage
 PN Pounds Net
 UN Unit
 US Dosage Form
 UT Inhalation
 UU Lozenge
 UV Percent Topical Only (A measure of medication intended only for external use)
 UW Milliequivalent
 UX Dram (Minim)
 VP Percent Volume

Refer to 004010 Data Element Dictionary for acceptable code values.

LH107	380	Quantity	O R 1/15
		Numeric value of quantity	
LH108	595	Compartment ID Code	O ID 1/1
		Code identifying the compartment in a compartmentalized tank car	

LH109	665	Residue Indicator Code	O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values. Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded	
LH110	254	Packing Group Code	O ID 1/3
		Refer to 004010 Data Element Dictionary for acceptable code values. Code indicating degree of danger in terms of Roman number I, II or III	
LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5
		Identifies the current regulatory version number used for hazardous materials shipments	

Segment: **LH2** Hazardous Classification Information -TARE LEVEL
Position: 153
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes:

- 1 If either LH206 or LH207 is present, then the other is required.
- 2 If either LH208 or LH209 is present, then the other is required.
- 3 If either LH210 or LH211 is present, then the other is required.

Semantic Notes:

- 1 LH206 and LH207 indicate the flashpoint temperature.
- 2 LH208 and LH209 indicate the control temperature.
- 3 LH210 and LH211 indicate the emergency temperature.

Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O ID 1/30
LH202	983	Hazardous Class Qualifier Code qualifying hazardous class Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O ID 14/40
LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O ID 4/25
LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance RQ Reportable Quantity Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: **LH3** Hazardous Material Shipping Name -TARE LEVEL
Position: 154
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH301	224	Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
LH302	984	Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
		I International Shipping Name	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LH303	985	N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	
		NOS N.O.S. Regulatory Requirements Apply	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LFH** Freeform Hazardous Material Information - TARE LEVEL
Position: 155
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments
Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.
Semantic Notes: 1 LFH06 indicates activity of the radioactive material.
 2 LFH07 indicates transport index of the radioactive material.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	LFH01	808	Hazardous Material Shipment Information Qualifier	M ID 3/3
			Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
			ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
			CAO Cargo Airlift Only	
			DWW Dangerous When Wet Declaration	
			EMS Emergency Schedule (EMS) Page Number	
			HZC Hazardous Substance Constituents	
			INH Inhalation Hazard	
			LQY Limited Quantity Declaration	
			MFA Medical First Aid Guide (MFAG) Page Number	
			MPI Marine Pollutant	
			PIH Poison - Inhalation Hazard Declaration	
			POI Poison Declaration	
			RAM Radioactive Material Data	
			TEC Technical or Chemical Group Name	
			TNM Trade Name	
			WST Waste Declaration	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LFH02	809	Hazardous Material Shipment Information	M AN 1/25
			Specific information required by law for hazardous material shipments	
	LFH03	809	Hazardous Material Shipment Information	O AN 1/25
			Specific information required by law for hazardous material shipments	
	LFH04	1023	Hazard Zone Code	O ID 1/1
			Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone	
			A Hazard Zone A	
			B Hazard Zone B	
			C Hazard Zone C	
			D Hazard Zone D	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PER** Administrative Communications Contact - TARE LEVEL
Position: 160
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 5
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

This segment is Optional, Must Use for hazardous materials. Provide HazMat contact information if different than that provided at Shipment level.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named HM Hazardous Material Contact Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER02	93 Name	O AN 1/60
		Free-form name	
	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number TE Telephone Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid telephone number must be provided.	
	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number EM Electronic Mail Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER06	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid email address must be provided.	

Segment:	MAN Marks and Numbers - TARE LEVEL
Position:	190
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>Semantic Notes: MAN segment should only contain numbers used for logistical purposes [to track containers].</p> <p>Example: MAN*GM*03094400000000045~</p>

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88	Marks and Numbers Qualifier	M ID 1/2
			Code specifying the application or source of Marks and Numbers (87)	
			GM SSCC-18 and Application Identifier	
			(See www.cvssuppliers.com regarding formatting information, http://cvssuppliers.com/sites/default/files/CVS%20GS1-128%20Label%20Requirements_0.pdf)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	MAN02	87	Marks and Numbers	M AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
			Must match SSCC-18 number that is sent on shipping label	

Segment: **PAL** Pallet Information - TARE LEVEL
Position: 215
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

- Syntax Notes:**
- 1 If either PAL05 or PAL06 is present, then the other is required.
 - 2 If PAL07 is present, then PAL10 is required.
 - 3 If PAL08 is present, then PAL10 is required.
 - 4 If PAL09 is present, then PAL10 is required.
 - 5 If PAL10 is present, then at least one of PAL07 PAL08 or PAL09 is required.
 - 6 If either PAL11 or PAL12 is present, then the other is required.
 - 7 If either PAL13 or PAL14 is present, then the other is required.

- Semantic Notes:**
- 1 PAL04 (Pack) is the number of pieces on the pallet.
 - 2 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
 - 3 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
 - 4 PAL09 (Height) is the height of the pallet and load.
 - 5 PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Comments:

Notes: PAL*6*4*42*136*****6*FT*824.268*LB*21.973*LB*5~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	PAL01	883	Pallet Type Code Code indicating the type of pallet 6 Wood Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/2
M	PAL02	884	Pallet Tiers The number of layers per pallet	M N0 1/3
M	PAL03	885	Pallet Blocks The number of pieces (cartons) per layer on the pallet	M N0 1/3
M	PAL05	395	Unit Weight Numeric value of weight per unit Numeric value of weight of pallet.	M R 1/8
M	PAL06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pounds Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	PAL07	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	M R 1/8
M	PAL08	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	M R 1/8

M	PAL09	65	Height Vertical dimension of an object measured when the object is in the upright position	M R 1/8
M	PAL10	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken IN Inches FT Foot MR Meter Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	PAL15	399	Pallet Exchange Code Code specifying pallet exchange instructions 1 No Exchange/No Return Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 1/1

Segment: **HL** Hierarchical Level - PACK LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*4*3*P*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure P Pack	M ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described 1 Additional Subordinate HL Data Segment in This Hierarchical Structure Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **LIN** Item Identification - PACK LEVEL
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification
Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Notes: Only Applicable for Single (homogeneous) SKU Full Case Cartons

Example:
 LIN*UA*121234512345*ND*556677895*VC*4456633213~
 LIN*UA*121234512345*UI*11234512345*VC*AC25978~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
M	LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product / Service ID (234) UA U.P.C./EAN Case Code (2-5-5) or UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN) Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
M	LIN03	234	Product/Service ID Identifying number for a product or service UPC/EAN case or container code as appropriate, aligned with LIN 02	M AN 1/48
Must Use	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/ Service ID (234)	X ID 2/2

			ND National Drug Code (NDC) if Rx	
			UI U.P.C. Consumer Package Code (1-5-5) if non-Rx	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	LIN05	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			UPC or NDC number as appropriate, aligned with LIN 02	
Must Use	LIN06	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			VC Vendor's (Seller's) Catalog Number	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	LIN07	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			Vendor Catalog Number	

Segment:	PO4 Item Physical Details - PACK LEVEL
Position:	060
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:	<ol style="list-style-type: none"> 1 If either PO402 or PO403 is present, then the other is required. 2 If PO405 is present, then PO406 is required. 3 If either PO406 or PO407 is present, then the other is required. 4 If either PO408 or PO409 is present, then the other is required. 5 If PO410 is present, then PO413 is required. 6 If PO411 is present, then PO413 is required. 7 If PO412 is present, then PO413 is required. 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required. 9 If PO417 is present, then PO416 is required. 10 If PO418 is present, then PO404 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package. 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers. 3 PO417 is the ending package identifier in a range of identifiers. 4 PO418 is the number of packages in this layer.
Comments:	<ol style="list-style-type: none"> 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ". 2 PO413 defines the unit of measure for PO410, PO411, and PO412.
Notes:	<p>At CVSHealth we're interested in both the total number of sellable units within a shipping container, and how they're being shipped to us. The PO4 is generally used in two ways, either as a summary or detail segment.</p> <p>If only PO401 is used, the value denotes the total number of sellable units in the carton. Product specifics are then derived via Item Level segments.</p> <p>If PO401-PO414 elements are used, these provide the number of inner containers (packs) within the shipping carton. PO414 would be the total number of sellable units within the pack, or total number of inner packs if present. In this scenario, we would also like a simple summary of the total number of eaches within the outer shipping case, regardless of the number of packs or inner packs, and have mapped this in the PO418 element at the Pack Level.</p> <p>Examples: PO4*8*32*OZ**G*12*01*3*CF*20*10*10*IN*****8~ PO4*4*4*PK**G*468*01*321*CC*20*10*3*IN*24****96~</p>

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>	<u>Pack</u>	
M	PO401	356	Pack	M N0 1/6
				The number of inner containers, or number of eaches if there are no inner

			containers, per outer container	
			The number of sellable units/eachs in the Shipping Container if no Packs (inner containers). If there are Packs, then this would be the number of eaches in the Pack, or number of Inner Packs.	
M	PO402	357	Size	M R 1/8
			Size of supplier units in pack	
M	PO403	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			AM Ampoule	
			BO Bottle	
			BX Box	
			CA Case	
			CT Carton	
			DS Display	
			DZ Dozen	
			EA Each	
			GS Gross	
			OZ Ounce - Av	
			PC Piece	
			PK Package	
			SP Shelf Package	
			SZ Syringe	
			UN Unit	
			Use UN for pill counts or for partials.	
			VI Vial	
			Use any appropriate code from data element 355, as agreed by the trading partners.	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	PO405	187	Weight Qualifier	M ID 1/2
			Code defining the type of weight	
			G Gross Weight	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	PO406	384	Gross Weight per Pack	M R 1/9
			Numeric value of gross weight per pack	
M	PO407	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			01 Actual Pounds	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	PO408	385	Gross Volume per Pack	M R 1/9
			Numeric value of gross volume per pack	
M	PO409	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			CC Cubic Centimeter	
			CF Cubic Feet	
			CI Cubic Inches	
			CR Cubic Meter	
			CY Cubic Yard	

M	PO410	82	<p>Refer to 004010 Data Element Dictionary for acceptable code values.</p> <p>Length</p> <p>Largest horizontal dimension of an object measured when the object is in the upright position</p>	M R 1/8
M	PO411	189	<p>Width</p> <p>Shorter measurement of the two horizontal dimensions measured with the object in the upright position</p>	M R 1/8
M	PO412	65	<p>Height</p> <p>Vertical dimension of an object measured when the object is in the upright position</p>	M R 1/8
M	PO413	355	<p>Unit or Basis for Measurement Code</p> <p>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</p> <p>CM Centimeter IN Inch MM Millimeter</p> <p>Refer to 004010 Data Element Dictionary for acceptable code values.</p>	M ID 2/2
M	PO414	810	<p>Inner Pack</p> <p>The number of eaches per inner container</p>	M N0 1/6
M	PO418	1470	<p>Number</p> <p>A generic number</p> <p>Number of sellable Eachs/Units in the outer Case/Shipping Container, regardless of Packs or Inner Packs (Case Total). Example: If a Case has 4 packs, each with 3 inner packs of 10 sellable units, this value of this element would be 120.</p>	M N0 1/9

Segment: **REF** Reference Identification - PACK LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Must Use for DSCSA RX

Notes: Use REF only for serialization, using GS1 EPC.
 Example: REF*01**urn:epc:id:sgtin:0309440.049101.5265~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SE Serial Number	M ID 2/3
M	REF02	127	Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Serial Number in GS1 EPC format.	M AN 1/30

Segment: **LH1** Hazardous Identification Information - PACK LEVEL
Position: 152
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: This segment is Optional, Must Use for hazardous materials. HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	LH101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CH Container	
		CP Crate	
		GD Gross Barrels	
		PK Package	
		TE Tote	
		TP Ten-pack	
		TY Tray	
		UN Unit	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LH102	80 Lading Quantity	M N0 1/7
		Number of units (pieces) of the lading commodity	
	LH103	277 UN/NA Identification Code	O ID 6/6
		Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
	LH104	200 Hazardous Materials Page	O AN 1/6
		The United Nations page number as required for the international transport of hazardous materials	
	LH106	355 Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		01 Actual Pounds	
		04 Small Spray	
		06 Digits (Expresses a value using total number of digits e.g. 6 digits)	
		1N Count	
		22 Deciliter per Gram (Represents viscosity Cuene intrinsic viscosity and limit intrinsic viscosity)	

- 23 Grams per Cubic Centimeter (Represents product density)
- 24 Theoretical Pounds
- 25 Grams per Square Centimeter (Represents product basis weight)
- 26 Actual Tons
- C5 Cost
- DB Dry Pounds
- DF Dram
- EA Each
- GA Gallon
- GC Grams per 100 Grams
- GD Gross Barrels
- GE Pounds per Gallon
- GH Half Gallon
- GI Imperial Gallons
- GN Gross Gallons
- GR Gram
- GS Gross
- KD Kilograms Decimal
- KG Kilogram
- KI Kilograms/Millimeter Width
- KK 100 Kilograms
- KL Kilograms/Meter
- KX Milliliters per Kilogram
- LB Pound
- LP Liquid Pounds
- MB Millimeter-Nominal
- MC Microgram
- ME Milligram
- MH Microns (Micrometers: 1/1,000,000 meter)
- MI Metric
- MK Milligrams Per Square Inch
- ML Milliliter
- MM Millimeter
- MW Metric Ton Kilograms
- PM Pounds-Percentage
- PN Pounds Net
- UN Unit
- US Dosage Form
- UT Inhalation
- UU Lozenge
- UV Percent Topical Only (A measure of medication intended only for external use)
- UW Milliequivalent
- UX Dram (Minim)
- VP Percent Volume

Refer to 004010 Data Element Dictionary for acceptable code values.

LH107	380	Quantity	O R 1/15
		Numeric value of quantity	
LH108	595	Compartment ID Code	O ID 1/1
		Code identifying the compartment in a compartmentalized tank car	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LH109	665	Residue Indicator Code	O ID 1/1

Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded
Refer to 004010 Data Element Dictionary for acceptable code values.

LH110 **254** **Packing Group Code** **O ID 1/3**

Code indicating degree of danger in terms of Roman number I, II or III

LH111 **1375** **Interim Hazardous Material Regulatory Number** **O AN 1/5**

Identifies the current regulatory version number used for hazardous materials shipments

Segment: **LH2** Hazardous Classification Information - PACK LEVEL
Position: 153
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes:

- 1 If either LH206 or LH207 is present, then the other is required.
- 2 If either LH208 or LH209 is present, then the other is required.
- 3 If either LH210 or LH211 is present, then the other is required.

Semantic Notes:

- 1 LH206 and LH207 indicate the flashpoint temperature.
- 2 LH208 and LH209 indicate the control temperature.
- 3 LH210 and LH211 indicate the emergency temperature.

Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O ID 1/30
LH202	983	Hazardous Class Qualifier Code qualifying hazardous class P Primary S Secondary	O ID 1/1
LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O ID 14/40
LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O ID 4/25
LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance RQ Reportable Quantity	O ID 2/2

Segment: **LH3** Hazardous Material Shipping Name - PACK LEVEL
Position: 154
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LH301	224	Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
LH302	984	Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
		I International Shipping Name	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LH303	985	N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	
		NOS N.O.S. Regulatory Requirements Apply	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LFH** Freeform Hazardous Material Information - PACK LEVEL
Position: 155
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments
Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.
Semantic Notes: 1 LFH06 indicates activity of the radioactive material.
 2 LFH07 indicates transport index of the radioactive material.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	LFH01	808	Hazardous Material Shipment Information Qualifier	M ID 3/3
			Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
			ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
			CAO Cargo Airlift Only	
			DWW Dangerous When Wet Declaration	
			EMS Emergency Schedule (EMS) Page Number	
			HZC Hazardous Substance Constituents	
			INH Inhalation Hazard	
			LQY Limited Quantity Declaration	
			MFA Medical First Aid Guide (MFAG) Page Number	
			MPI Marine Pollutant	
			PIH Poison - Inhalation Hazard Declaration	
			POI Poison Declaration	
			RAM Radioactive Material Data	
			TEC Technical or Chemical Group Name	
			TNM Trade Name	
			WST Waste Declaration	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LFH02	809	Hazardous Material Shipment Information	M AN 1/25
			Specific information required by law for hazardous material shipments	
	LFH03	809	Hazardous Material Shipment Information	O AN 1/25
			Specific information required by law for hazardous material shipments	
	LFH04	1023	Hazard Zone Code	O ID 1/1
			Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone	
			A Hazard Zone A	
			B Hazard Zone B	
			C Hazard Zone C	
			D Hazard Zone D	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **PER** Administrative Communications Contact - PACK LEVEL
Position: 160
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

This segment is Optional, Must Use for hazardous materials. Provide HazMat contact information if different than that provided at Shipment or Tare level.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named HM Hazardous Material Contact Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER02	93 Name	O AN 1/60
		Free-form name	
	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number TE Telephone Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid telephone number must be provided.	
	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number EM Electronic Mail Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER06	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid email address must be provided.	

Segment:	MAN Marks and Numbers - PACK LEVEL
Position:	190
Loop:	HL Mandatory
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container. 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range. 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	Example: MAN*GM*00123456789098765432~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
M	MAN01	88 Marks and Numbers Qualifier	M ID 1/2
		Code specifying the application or source of Marks and Numbers (87)	
		GM SSCC-18 and Application Identifier	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	MAN02	87 Marks and Numbers	M AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	
		Must match SSCC-18 number that is sent on shipping label	

Segment: **DTM** Date/Time Reference - PACK LEVEL
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: Must use for DSCSA Compliance, may be used for non-Rx products if appropriate.

Notes: Only Applicable for Single (homogeneous) SKU Full Case Cartons

Example: DTM*208*20140225~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	DTM01	Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		036 Expiration	
		208 Lot Number Expiration	
		HDMA/DSCSA ASNs should use '208' qualifier for Lot Number Expiration. Refer to 004010 Data Element Dictionary for acceptable code values.	
	DTM02	Date	X DT 8/8
		Date expressed as CCYYMMDD	

Segment: **HL** Hierarchical Level - INNER PACK LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
 - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
 - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
 - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*4*3*Q*1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
	HL02	Hierarchical Parent ID Number	O AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		Q Subpack	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	HL04	Hierarchical Child Code	O ID 1/1
		Code indicating if there are hierarchical child data segments subordinate to the level being described	
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LIN** Item Identification - INNER PACK LEVEL
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification
Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Notes: Only Applicable for Single (homogeneous) SKU Full Case Cartons
 Example: LIN*UA*N12345*ND*556677895*0555333322*VC*4456633213~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	LIN02	235 Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product / Service ID (234)	
		UA U.P.C./EAN Case Code (2-5-5) or UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LIN03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service	
		UPC/EAN case or container code as appropriate, aligned with LIN 02	
Must Use	LIN04	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product / Service ID (234)	
		ND National Drug Code (NDC) if Rx UI U.P.C. Consumer Package Code (1-5-5) if non-Rx	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	LIN05	234 Product/Service ID	X AN 1/48

			Identifying number for a product or service
			UPC or NDC number as appropriate, aligned with LIN 02
Must Use	LIN06	235	Product/Service ID Qualifier X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)
			VC Vendor's (Seller's) Catalog Number
			Refer to 004010 Data Element Dictionary for acceptable code values.
Must Use	LIN07	234	Product/Service ID X AN 1/48
			Identifying number for a product or service
			Vendor Catalog Number

Segment: **PO4** Item Physical Details - INNER PACK LEVEL

Position: 060

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax Notes:

- 1 If either PO402 or PO403 is present, then the other is required.
- 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- 9 If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

Semantic Notes:

- 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3 PO417 is the ending package identifier in a range of identifiers.
- 4 PO418 is the number of packages in this layer.

Comments:

- 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: If Inner Packs are present, the PO401-PO414 elements are used. PO414 would be the total number of sellable units within the pack.

Example: PO4*4*10*AM*****6*CC*****~

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
PO401	356	Pack	O N0 1/6
		The number of inner containers, or number of eaches if there are no inner containers, per outer container	
PO402	357	Size	X R 1/8
		Size of supplier units in pack	
PO403	355	Unit or Basis for Measurement Code	X ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		AM Ampoule	
		BO Bottle	
		BX Box	
		CA Case	
		CT Carton	
		DS Display	

DZ Dozen
 EA Each
 GS Gross
 OZ Ounce - Av
 PC Piece
 PK Package
 SP Shelf Package
 SZ Syringe
 UN Unit

Use UN for pill counts or for partials.

VI Vial

Use any appropriate code from data element 355, as agreed by the trading partners.

Refer to 004010 Data Element Dictionary for acceptable code values.

PO404 103 Packaging Code X AN 3/5

Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required

Refer to 004010 Data Element Dictionary for acceptable code values.

PO405 187 Weight Qualifier O ID 1/2

Code defining the type of weight

Refer to 004010 Data Element Dictionary for acceptable code values.

PO406 384 Gross Weight per Pack X R 1/9

Numeric value of gross weight per pack

PO407 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Refer to 004010 Data Element Dictionary for acceptable code values.

PO408 385 Gross Volume per Pack X R 1/9

Numeric value of gross volume per pack

PO409 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CC Cubic Centimeter

CF Cubic Feet

CI Cubic Inches

CR Cubic Meter

CY Cubic Yard

Refer to 004010 Data Element Dictionary for acceptable code values.

PO410 82 Length X R 1/8

Largest horizontal dimension of an object measured when the object is in the upright position

PO411 189 Width X R 1/8

Shorter measurement of the two horizontal dimensions measured with the object in the upright position

PO412 65 Height X R 1/8

Vertical dimension of an object measured when the object is in the upright position

PO413 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CM Centimeter
IN Inch
MM Millimeter

Refer to 004010 Data Element Dictionary for acceptable code values.

PO414 **810** **Inner Pack** **O N0 1/6**
The number of eaches per inner container

Segment: **REF** Reference Identification - INNER PACK LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Notes: Use REF only for serialization, using GS1 EPC.
 Example: REF*01**urn:epc:id:sgtin:0309440.049101.5265~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SE Serial Number	M ID 2/3
M	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Serial Number in GS1 EPC format.	M AN 1/30

Segment: **MAN** Marks and Numbers - INNER PACK LEVEL
Position: 190
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:

- 1 If either MAN04 or MAN05 is present, then the other is required.
- 2 If MAN06 is present, then MAN05 is required.

Semantic Notes:

- 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
- 2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
- 3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments:

- 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
- 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Notes: Example: MAN*GM*00333444555666777883~

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88 Marks and Numbers Qualifier	M ID 1/2
		Code specifying the application or source of Marks and Numbers (87)	
		GM SSCC-18 and Application Identifier	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	MAN02	87 Marks and Numbers	M AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	
		Must match SSCC-18 number that is sent on shipping label	

Segment: **DTM** Date/Time Reference - INNER PACK LEVEL
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Must use for DSCSA Compliance, may be used for non-Rx products if appropriate.

Example: DTM*208*20170225~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		036 Expiration	
		208 Lot Number Expiration	
		HDMA/DSCSA ASNs should use '208' qualifier for Lot Number Expiration. Refer to 004010 Data Element Dictionary for acceptable code values.	
	DTM02	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		Date expressed as CCYYMMDD	

Segment: **HL** Hierarchical Level - ITEM LEVEL
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*5*4*I*0~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
		0 No Subordinate HL Segment in This Hierarchical Structure. Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LH1** Hazardous Identification Information - ITEM LEVEL
Position: 152
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: This segment is Optional, Must Use for hazardous materials. HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	LH101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		05 Lifts	
		CH Container	
		CP Crate	
		GD Gross Barrels	
		PK Package	
		PL Pallet/Unit Load	
		SV Skid	
		SX Shipment	
		TC Truckload	
		TE Tote	
		TP Ten-pack	
		TY Tray	
		UN Unit	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LH102	80 Lading Quantity	M N0 1/7
		Number of units (pieces) of the lading commodity	
	LH103	277 UN/NA Identification Code	O ID 6/6
		Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	
	LH104	200 Hazardous Materials Page	O AN 1/6
		The United Nations page number as required for the international transport of hazardous materials	
	LH106	355 Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		01 Actual Pounds	

04 Small Spray
 06 Digits (Expresses a value using total number of digits e.g. 6 digits)
 1N Count
 22 Deciliter per Gram (Represents viscosity Cuene intrinsic viscosity and limit intrinsic viscosity)
 23 Grams per Cubic Centimeter (Represents product density)
 24 Theoretical Pounds
 25 Grams per Square Centimeter (Represents product basis weight)
 26 Actual Tons
 C5 Cost
 DB Dry Pounds
 DF Dram
 EA Each
 GA Gallon
 GC Grams per 100 Grams
 GD Gross Barrels
 GE Pounds per Gallon
 GH Half Gallon
 GI Imperial Gallons
 GN Gross Gallons
 GR Gram
 GS Gross
 KD Kilograms Decimal
 KG Kilogram
 KI Kilograms/Millimeter Width
 KK 100 Kilograms
 KL Kilograms/Meter
 KX Milliliters per Kilogram
 LB Pound
 LP Liquid Pounds
 MB Millimeter-Nominal
 MC Microgram
 ME Milligram
 MH Microns (Micrometers: 1/1,000,000 meter)
 MI Metric
 MK Milligrams Per Square Inch
 ML Milliliter
 MM Millimeter
 MW Metric Ton Kilograms
 PM Pounds-Percentage
 PN Pounds Net
 UN Unit
 US Dosage Form
 UT Inhalation
 UU Lozenge
 UV Percent Topical Only (A measure of medication intended only for external use)
 UW Milliequivalent
 UX Dram (Minim)
 VP Percent Volume

Refer to 004010 Data Element Dictionary for acceptable code values.

LH107

380

Quantity

O R 1/15

Numeric value of quantity

LH108	595	Compartment ID Code	O ID 1/1
		Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values.	
LH109	665	Residue Indicator Code	O ID 1/1
		Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded Refer to 004010 Data Element Dictionary for acceptable code values.	
LH110	254	Packing Group Code	O ID 1/3
		Code indicating degree of danger in terms of Roman number I, II or III	
LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5
		Identifies the current regulatory version number used for hazardous materials shipments	

Segment: **LH2** Hazardous Classification Information - ITEM LEVEL
Position: 153
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes:

- 1 If either LH206 or LH207 is present, then the other is required.
- 2 If either LH208 or LH209 is present, then the other is required.
- 3 If either LH210 or LH211 is present, then the other is required.

Semantic Notes:

- 1 LH206 and LH207 indicate the flashpoint temperature.
- 2 LH208 and LH209 indicate the control temperature.
- 3 LH210 and LH211 indicate the emergency temperature.

Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref. <u>Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
LH201	215	Hazardous Classification The hazardous classification corresponding to the shipping name of the hazardous commodity	O ID 1/30
LH202	983	Hazardous Class Qualifier Code qualifying hazardous class P Primary S Secondary	O ID 1/1
LH203	218	Hazardous Placard Notation The placard notation corresponding to the hazard class of the hazardous commodity	O ID 14/40
LH204	222	Hazardous Endorsement The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O ID 4/25
LH205	759	Reportable Quantity Code Code to identify presence of hazardous substance RQ Reportable Quantity	O ID 2/2

Segment: **LH3** Hazardous Material Shipping Name - ITEM LEVEL
Position: 154
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
LH301	224	Hazardous Material Shipping Name	X AN 1/25
		The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	
LH302	984	Hazardous Material Shipping Name Qualifier	X ID 1/1
		Qualifier indicating the source (regulatory) of the proper shipping name	
		D Domestic (United States) Shipping Name	
		I International Shipping Name	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LH303	985	N.O.S. Indicator Code	O ID 3/3
		Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified	
		NOS N.O.S. Regulatory Requirements Apply	
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LFH** Freeform Hazardous Material Information - ITEM LEVEL
Position: 155
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments
Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.
Semantic Notes: 1 LFH06 indicates activity of the radioactive material.
 2 LFH07 indicates transport index of the radioactive material.
Comments:
Notes: This segment is Optional, Must Use for hazardous materials.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	LFH01	808	Hazardous Material Shipment Information Qualifier	M ID 3/3
			Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
			ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	
			CAO Cargo Airlift Only	
			DWW Dangerous When Wet Declaration	
			EMS Emergency Schedule (EMS) Page Number	
			HZC Hazardous Substance Constituents	
			INH Inhalation Hazard	
			LQY Limited Quantity Declaration	
			MFA Medical First Aid Guide (MFAG) Page Number	
			MPI Marine Pollutant	
			PIH Poison - Inhalation Hazard Declaration	
			POI Poison Declaration	
			RAM Radioactive Material Data	
			TEC Technical or Chemical Group Name	
			TNM Trade Name	
			WST Waste Declaration	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LFH02	809	Hazardous Material Shipment Information	M AN 1/25
			Specific information required by law for hazardous material shipments	
	LFH03	809	Hazardous Material Shipment Information	O AN 1/25
			Specific information required by law for hazardous material shipments	
	LFH04	1023	Hazard Zone Code	O ID 1/1
			Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone	
			A Hazard Zone A	
			B Hazard Zone B	
			C Hazard Zone C	
			D Hazard Zone D	

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **PER** Administrative Communications Contact - ITEM LEVEL
Position: 160
Loop: LH1 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 5
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

This segment is Optional, Must Use for hazardous materials. Provide HazMat contact information if different than that provided at Shipment, Tare, or Pack level.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	PER01	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named HM Hazardous Material Contact	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER02	93 Name	O AN 1/60
		Free-form name	
	PER03	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number TE Telephone	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER04	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid telephone number must be provided.	
	PER05	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number EM Electronic Mail	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	PER06	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable A valid email address must be provided.	

Segment: **LIN** Item Identification - ITEM LEVEL
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: 1 LIN01 is the line item identification
Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.
For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: Example: LIN**UI*11234512345*PI*109876*VN*123456*VC*PC6789456~

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
Must Use	LIN01	350 Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number	
M	LIN02	235 Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product / Service ID (234) UI UPC, if non-RX item ND NDC, if RX item	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	LIN03	234 Product/Service ID	M AN 1/48
		Identifying number for a product or service UPC Code (1-5-5) if non-RX item or NDC if RX, align with qualifier in LIN 01.	
Must Use	LIN04	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/ Service ID (234) PI Purchaser's (CVS Health) Item Number	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	LIN05	234 Product/Service ID	X AN 1/48
		Identifying number for a product or service	

Must Use	LIN06	235	CVS Health Item Number	
			Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
Must Use	LIN07	234	VN Vendor (Seller's) Item Number	
			Product/Service ID	X AN 1/48
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	LIN08	235	Vendor's Item Number	
			Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			VC Vendor (Seller's) Catalog Number, if different than Vendor Item Number. If provided, must align with any 832/Product Catalog EDI documents sent to CVS Health.	
Must Use	LIN09	234	Refer to 004010 Data Element Dictionary for acceptable code values.	
			Product/Service ID	X AN 1/48
			Identifying number for a product or service	
Must Use	LIN10	235	Vendor's Catalog Number, if different than Vendor Item Number. Must align with any 832/Product Catalog EDI documents sent to CVS Health.	
			Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
Must Use	LIN11	234	LT Lot Number (Particularly Rx)	
			Product/Service ID	X AN 1/48
			Refer to 004010 Data Element Dictionary for acceptable code values.	
			Identifying number for a product or service	
			Lot Number (Particularly for Rx)	

Segment: SN1 Item Detail (Shipment) - ITEM LEVEL
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
Comments: 1 SN103 defines the unit of measurement for both SN102 and SN104.
Notes: Example: SN1**50*UN~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set ASN Line Number or Original PO Line Number, as referenced in LIN01	M AN 1/20
M	SN102	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set This value should equate to the actual sellable item/unit.	M R 1/10
M	SN103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken AM Ampoule BO Bottle BX Box CA Case CT Carton DS Display DZ Dozen EA Each GS Gross OZ Ounce - Avt PC Piece PK Package SP Shelf Package SZ Syringe UN Unit Use UN for pill counts or for partials. VI Vial Use any appropriate code from data element 355, as agreed by the trading partners Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
Must Use	SN104	646	Quantity Shipped to Date Number of units shipped to date For Partial Orders.	O R 1/15
Must Use	SN105	330	Quantity Ordered	X R 1/15

			Quantity ordered
			Quantity Ordered on Original CVS Health PO
Must Use	SN106	355	Unit or Basis for Measurement Code X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
			AM Ampoule
			BO Bottle
			BX Box
			CA Case
			CT Carton
			DS Display
			DZ Dozen
			EA Each
			GS Gross
			OZ Ounce - Av
			PC Piece
			PK Package
			SP Shelf Package
			SZ Syringe
			UN Unit
			Use UN for pill counts or for partials.
			VI Vial
			Use any appropriate code from data element 355, as agreed by the trading partners
			Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **PO4** Item Physical Details - ITEM LEVEL

Position: 060

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax Notes:

- 1 If either PO402 or PO403 is present, then the other is required.
- 2 If PO405 is present, then PO406 is required.
- 3 If either PO406 or PO407 is present, then the other is required.
- 4 If either PO408 or PO409 is present, then the other is required.
- 5 If PO410 is present, then PO413 is required.
- 6 If PO411 is present, then PO413 is required.
- 7 If PO412 is present, then PO413 is required.
- 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.
- 9 If PO417 is present, then PO416 is required.
- 10 If PO418 is present, then PO404 is required.

Semantic Notes:

- 1 PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3 PO417 is the ending package identifier in a range of identifiers.
- 4 PO418 is the number of packages in this layer.

Comments:

- 1 PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
- 2 PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: Examples:
 PO4*8*8*EA**G*1.86*OZ*2*CI*4*1.5*1*IN~
 PO4*12*12*AM**G*5*OZ*25*CC*12*12*22*MM~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PO401	356	Pack	O N0 1/6
			The number of inner containers, or number of eaches if there are no inner containers, per outer container Eachs = Actual Sellable Units	
Must Use	PO402	357	Size	X R 1/8
			Size of supplier units in pack	
Must Use	PO403	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken AM Ampoule BO Bottle BX Box CA Case CT Carton DS Display	

DZ Dozen
 EA Each
 GS Gross
 OZ Ounce - Av
 PC Piece
 PK Package
 SP Shelf Package
 SZ Syringe
 UN Unit

Use UN for pill counts or for partials.

VI Vial
 Use any appropriate code from data element 355, as agreed by the trading partners.

Refer to 004010 Data Element Dictionary for acceptable code values.

PO405 187 Weight Qualifier O ID 1/2

Code defining the type of weight

G Gross Weight

Refer to 004010 Data Element Dictionary for acceptable code values.

Must Use PO406 384 Gross Weight per Pack X R 1/9

Numeric value of gross weight per pack

Must Use PO407 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

LB Pound

OZ Ounce

Refer to 004010 Data Element Dictionary for acceptable code values.

Must Use PO408 385 Gross Volume per Pack X R 1/9

Numeric value of gross volume per pack

Must Use PO409 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CC Cubic Centimeter

CF Cubic Feet

CI Cubic Inches

Refer to 004010 Data Element Dictionary for acceptable code values.

Must Use PO410 82 Length X R 1/8

Largest horizontal dimension of an object measured when the object is in the upright position

Must Use PO411 189 Width X R 1/8

Shorter measurement of the two horizontal dimensions measured with the object in the upright position

Must Use PO412 65 Height X R 1/8

Vertical dimension of an object measured when the object is in the upright position

Must Use PO413 355 Unit or Basis for Measurement Code X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CM Centimeter

IN Inch

MM Millimeter

Must Use **PO414** **810** **Inner Pack** **O N0 1/6**

Refer to 004010 Data Element Dictionary for acceptable code values.
The number of eaches per inner container

Segment:	PID Product/Item Description - ITEM LEVEL
Position:	070
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional (Must Use)
Max Use:	200
Purpose:	To describe a product or process in coded or free-form format
Syntax Notes:	<ol style="list-style-type: none"> 1 If PID04 is present, then PID03 is required. 2 At least one of PID04 or PID05 is required. 3 If PID07 is present, then PID03 is required. 4 If PID08 is present, then PID04 is required. 5 If PID09 is present, then PID05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 1 Use PID03 to indicate the organization that publishes the code list being referred to. 2 PID04 should be used for industry-specific product description codes. 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate. 4 PID09 is used to identify the language being used in PID05.
Comments:	<ol style="list-style-type: none"> 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used. 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment. 3 PID07 specifies the individual code list of the agency specified in PID03.
Notes:	Example: PID*F****IBUPROFEN TABLETS 300 MG 70~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	PID05	352 Description	X AN 1/80
		A free-form description to clarify the related data elements and their content	
		The description should contain prescription (Rx) drug product information, such as product name, strength, dosage form, and container size.	

Segment: **REF** Reference Identification - ITEM LEVEL
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes:

Mandatory for DSCSA

Notes: Use REF only for serialization, using GS1 EPC.

Example: REF*SE**urn:epc:id:sgtin:0010300333.987654.3212~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			SE Serial Number	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			Serial Number in GS1 EPC format.	

Segment: **DTM** Date/Time Reference - ITEM LEVEL
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Must use for DSCSA Compliance, may be used for non-Rx products if appropriate.

Example: DTM*208*20170225~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
			036 Expiration	
			208 Lot Number Expiration	
			HDMA/DSCSA ASNs should use '208' qualifier for Lot Number Expiration. Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	

Segment: **N1** Name - ITEM LEVEL
Position: 220
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

- 1 At least one of N102 or N103 is required.
- 2 If either N103 or N104 is present, then the other is required.

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes: Mandatory for DSCSA
 The following N1 loops are used for conveying Transaction History (TH) for DSCSA.
 Example: N1*MF*BRICK PHARMACEUTICALS*11*12345678901~
 N1*DS*VaxServe*11*048731447~
 N1*SU*PLAYTEX*11*152045399~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		DS Distributor Exclusive Distributor MF Manufacturer of Goods Original manufacturer SU Supplier/Manufacturer Use for Supplier or Distributor for Indirect Shipments	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	N102	93 Name	X AN 1/60
		Free-form name	
		This is the legal company name.	
Must Use	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification	
		1 D-U-N-S Number, Dun & Bradstreet 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix 11 Drug Enforcement Administration (DEA)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	

Segment: N2 Additional Name Information - ITEM LEVEL
Position: 230
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name If RX, DEA Number, If Non-RX GLN if Available	M AN 1/60
Must Use	N202	93	Name Free-form name GLN If available for RX Products. Not used for Non-RX	O AN 1/60

Segment: N3 Address Information - ITEM LEVEL
Position: 240
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Notes: Notes: The following N1 loops are used for conveying Transaction History (TH) for DSCSA.

Example: N3*100 CVS Center Dr ~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information	M AN 1/55
Must Use	N302	166	Address Information Address information	O AN 1/55

Segment: **N4 Geographic Location - ITEM LEVEL**
Position: 250
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: The following N1 loops are used for conveying Transaction History (TH) for DSCSA.
 Example: N4*WOONSOCKET*RI*02895~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	N401	19	City Name Free-form text for city name	O AN 2/30
Must Use	N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
Must Use	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
Must Use	N404	26	Country Code Code identifying the country	O ID 2/3

Segment: **REF** Reference Identification - ITEM LEVEL
Position: 260
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 12
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 REF04 contains data relating to the value cited in REF02.

Comments:
Notes: Mandatory for DSCSA
 The following N1 loops are used for conveying Transaction History (TH) for DSCSA.
 Example: REF*KK*20140128*1832050~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification KK Delivery Reference Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
Must Use	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Delivery Reference Date	X AN 1/30
Must Use	REF03	352	Description A free-form description to clarify the related data elements and their content Advance Ship Notice Reference Number	X AN 1/80

Segment: **YNQ** Yes/No Question - ITEM LEVEL

Position: 335

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

Syntax Notes:

- 1 Only one of YNQ01 YNQ09 or YNQ10 may be present.
- 2 If either YNQ03 or YNQ04 is present, then the other is required.
- 3 If YNQ09 is present, then YNQ08 is required.

Semantic Notes:

- 1 YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
- 2 YNQ10 contains a free-form question when codified questions are not available.

Comments:

Notes: Notes: The purpose of the YNQ segment at the Item Level is to indicate that the Direct Purchase Statement established at the Shipment Level applies or that a Direct Purchase Statement was received. .

Example: YNQ**Y*****99*DIR~
 The YNQ02 should have a value of 'Y' which indicates that DSCSA applies.
 YNQ**Y***As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer.**99*DPS~

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
YNQ01	1321	Condition Indicator	X ID 2/2
		Code indicating a condition	
		CX Certification Status	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
M	YNQ02	1073 Yes/No Condition or Response Code	M ID 1/1
		Code indicating a Yes or No condition or response	
		Y Yes	
		"Y" indicates that the direct purchase statement applies or that a direct purchase statement has been received.	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	YNQ08	1270 Code List Qualifier Code	X ID 1/3
		Code identifying a specific industry code list	
		99 Purpose Code	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
Must Use	YNQ09	1271 Industry Code	X AN 1/30
		Code indicating a code from a specific industry code list	
		DIR Product Purchased Directly	
		RDPS Received Direct Purchase Statement	

Segment: **CTT** Transaction Totals
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	
	CTT02	347	Hash Total	O R 1/10
			Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.	
			Example:	
			-.0018 First occurrence of value being hashed.	
			.18 Second occurrence of value being hashed.	
			1.8 Third occurrence of value being hashed.	
			18.01 Fourth occurrence of value being hashed.	

			1855 Hash total prior to truncation.	
			855 Hash total after truncation to three-digit field.	
	CTT03	81	Weight	X R 1/10
			Numeric value of weight	
	CTT04	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	CTT05	183	Volume	X R 1/8
			Value of volumetric measure	
	CTT06	355	Unit or Basis for Measurement Code	X ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	CTT07	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	