

# 856 Advance Ship Notice

Supplier Implementation Guide  
December 2017

# 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](mailto:EDIMail@CVSCaremark.com) or call 401.770.7600.

## 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](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 ○ 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 |
|--------------------------------|--|---|-----------------------------------|
| <b>Confirmed Ship Date</b>     | The date on which the manufacturer has confirmed the item(s) has been shipped to the customer. | DTM (Date/Time) Segment, Data<br>Element 374 with a qualifier of '011' for Shipped Date and the date in Data Element 373. | Shipment Level                    |
| <b>Estimated Delivery Date</b> | The date on which the distributor is expected to receive the item(s) from manufacturer.        | DTM (Date/Time) Segment, Data<br>Element 374 with a qualifier of  | Shipment Level                    |

|   |   |  |                |
|---|---|--|----------------|
|   |   | '017' for Expected Arrival and the date in Data Element 373.   |                |
| <b>Carrier Name</b>   | 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 |
| <b>Shipping Location (Ship From)</b>                                  | 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 |
| <b>Shipping Location (Ship To)</b>                                    | 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 |
| <b>Carrier Tracking Number</b>  | 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 |
| <b>DEA Number / Health Industry Number / D&amp;B® D-U-N-S® Number</b> | 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 <a href="http://www.hibcc.org/hinsystem.htm">http://www.hibcc.org/hinsystem.htm</a> 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 |
| <b>Purchase Order Number</b>  | 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    |

|                        |  |   |            |
|------------------------|--|---|------------|
| <b>NDC Number</b>      | 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 |
| <b>Ship Quantity</b>   | The number of individual pieces shipped to its destination.  | SN1 (Item Detail (Shipment)) Segment, Data Element 382.   | Item Level |
| <b>Lot Number</b>      | 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 |
| <b>Expiration Date</b> | 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):**

| <b>Data Element</b>                  | <b>Business Definition</b>  | <b>Maps to Technical Guideline...</b>   | <b>Hierarchical Level Within the ASN</b> |
|--------------------------------------|---|---|--|
| <b>Shipping Location (Ship From)</b> | 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                           |
| <b>Shipping Location (Ship To)</b>   | 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                           |



|   |   |   |                          |
|---|---|---|--------------------------|
| <b>Purchase Order Number &amp; Original PO Date</b> | 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              |
| <b>Seller's Invoice Number</b>                      | Seller's Invoice Number   | REF as specified  | Order Level              |
| <b>CVS Vendor Number</b>                            | CVS Vendor Number of trading partner  | REF as specified  | Order Level              |
| <b>Case and Pack Identifier information</b>         | Case UPC and vendor identification as appropriate   | LIN as specified  | Pack & Inner Pack Level  |
| <b>Pack &amp; Inner Pack Information</b>            | Pack packaging, weight, volume and other information.   | PO4 as specified  | Pack & Inner Pack Levels |
| <b>Item Identification</b>                          | 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               |
| <b>Quantity Shipped</b>                             | Number of sellable units shipped, shipped to date, and ordered.   | SN1 as specified  | Item Level               |
| <b>Physical Details of Item</b>                     | Item physical details including packaging, weight, and volume   | PO4 as specified  | Item Level               |

**Fill Rate Metrics:**

| <b>Data Element</b>          | <b>Business Definition</b>  | <b>Maps to Technical Guideline...</b>                     | <b>Hierarchical Level Within the ASN</b> |
|------------------------------|---|---|--|
| <b>Purchase Order Number</b> | 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                              |

|   |  |                           |                  |
|---|--|---------------------------|------------------|
| <b>Sellable Units Per Shipping Container (Case)</b> | 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       |
| <b>Pack Breakdown</b>                               | Note that the CVSHealth ASN provides for the detail of the parent/child relationship between pack and inner pack.<br><br>If there are no packs or inner packs, provide the details of the sellable units within the outer container/case.<br><br>If there are inner containers, provide the quantity and pertinent information related to the inner packs. | PO401-14 as specified     | Pack Level       |
| <b>Inner Pack Breakdown</b>                         | Note that the CVSHealth ASN provides for the detail of the parent/child relationship between pack and inner pack.<br><br>Provide the quantity and pertinent information related to sellable units found within the inner packs.  | PO401-14 as specified     | Inner Pack Level |

**Imports:**

| <b>Data Element</b>        | <b>Business Definition</b>   | <b>Maps to Technical Guideline...</b>  | <b>Hierarchical Level Within the ASN</b> |
|----------------------------|--|--|--|
| <b>Free-On-Board (FOB)</b> | 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                      |
|---|---|--|--|
| <b>Hazardous Material Identification &amp; Quantity</b> | 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      |
|-------------------------|---|---------------------------------------|--|
| <b>GS1-128 Label ID</b> | 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 |
|--------------------------------|--|--|-----------------------------------|
| <b>Confirmed Ship Date</b>     | 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                    |
| <b>Estimated Delivery Date</b> | 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                    |

|  |   |   |                |
|--|---|---|----------------|
| <b>Carrier Name</b>                            | 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 |
| <b>Carrier Tracking Number</b>                 | 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 |
| <b>Bill of Lading/Shipment ID</b>              | Vendor Bill of Lading or other shipment identifier.   | BSN 02, Data Element 396  | Shipment Level |
| <b>Carrier Details (Quantity &amp; Weight)</b> | 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 |
| <b>Shipping Location (Ship From)</b>           | 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 |
| <b>Shipping Location (Ship To)</b>             | 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 |
| <b>Carrier Details, Order Level</b>            | Generally the number of pallets related to the order with quantity, weights and volumes.  | TD1 as specified  | Order Level    |
| <b>Pallet Information</b>                      | 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> |
|---------------|-----------------|----------------|--|------------------|----------------|--------------------|---------------------------|
| LOOP ID - HL  |                 |                |  |                  |                |                    | 200000                    |
| M             | 010             | HL             | Hierarchical Level - SHIPMENT LEVEL                              | M                | 1              |                    | c1                        |
| M             | 110             | TD1            | Carrier Details (Quantity and Weight) - SHIPMENT LEVEL           | M                | >1             |                    |                           |
| M             | 120             | TD5            | Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL | M                | >1             |                    |                           |
| M             | 130             | TD3            | Carrier Details (Equipment) - SHIPMENT LEVEL                     | M                | >1             |                    |                           |
| M             | 150             | REF            | Reference Identification - SHIPMENT LEVEL                        | M                | >1             |                    |                           |
| LOOP ID - LH1 |                 |                |  |                  |                |                    | 100                       |
|               | 152             | LH1            | Hazardous Identification Information - SHIPMENT LEVEL            | O                | 1              |                    |                           |
|               | 153             | LH2            | Hazardous Classification Information - SHIPMENT LEVEL            | O                | 4              |                    |                           |
|               | 154             | LH3            | Hazardous Material Shipping Name - SHIPMENT LEVEL                | O                | 12             |                    |                           |
|               | 155             | LFH            | Freeform Hazardous Material Information - SHIPMENT LEVEL         | O                | 20             |                    |                           |
|               | 160             | PER            | Administrative Communications Contact - SHIPMENT LEVEL           | O                | 5              |                    |                           |
| M             | 200             | DTM            | Date/Time Reference - SHIPMENT LEVEL                             | M                | >1             |                    |                           |
| Must Use      | 210             | FOB            | F.O.B. Related Instructions                                      | O                | 1              |                    |                           |
| LOOP ID - N1  |                 |                |  |                  |                |                    | 200                       |
| M             | 220             | N1             | Name - SHIP FROM - SHIPMENT LEVEL                                | M                | 1              |                    |                           |
| M             | 230             | N2             | Additional Name Information - SHIPMENT LEVEL                     | M                | 2              |                    |                           |
| M             | 240             | N3             | Address Information - SHIPMENT LEVEL                             | M                | 2              |                    |                           |
| M             | 250             | N4             | Geographic Location - SHIPMENT LEVEL                             | M                | 1              |                    |                           |
| M             | 260             | REF            | Reference Identification - SHIPMENT LEVEL                        | M                | 12             |                    |                           |
| M             | 270             | PER            | Administrative Communications Contact - SHIPMENT LEVEL           | M                | 3              |                    |                           |
| LOOP ID - N1  |                 |                |  |                  |                |                    | 200                       |
|               | 220             | N1             | Name - SELLER - SHIPMENT LEVEL                                   | O                | 1              |                    |                           |
| M             | 230             | N2             | Additional Name Information - SHIPMENT LEVEL                     | M                | 2              |                    |                           |
| M             | 240             | N3             | Address Information - SHIPMENT LEVEL                             | M                | 2              |                    |                           |

|               |     |     |  |   |     |
|---------------|-----|-----|--|---|-----|
| M             | 250 | N4  | Geographic Location - SHIPMENT LEVEL                   | M | 1   |
| M             | 260 | REF | Reference Identification - SHIPMENT LEVEL              | M | 12  |
| M             | 270 | PER | Administrative Communications Contact - SHIPMENT LEVEL | M | 3   |
| LOOP ID - N1  |     |     |  |   | 200 |
| M             | 220 | N1  | Name - SHIP TO - SHIPMENT LEVEL                        | M | 1   |
| M             | 230 | N2  | Additional Name Information - SHIPMENT LEVEL           | M | 2   |
| M             | 240 | N3  | Address Information - SHIPMENT LEVEL                   | M | 2   |
| M             | 250 | N4  | Geographic Location - SHIPMENT LEVEL                   | M | 1   |
|               | 260 | REF | Reference Identification - SHIPMENT LEVEL              | O | 12  |
| LOOP ID - N1  |     |     |  |   | 200 |
|               | 220 | N1  | Name - BUYER - SHIPMENT LEVEL                          | O | 1   |
| M             | 230 | N2  | Additional Name Information - SHIPMENT LEVEL           | M | 2   |
| M             | 240 | N3  | Address Information - SHIPMENT LEVEL                   | M | 2   |
| M             | 250 | N4  | Geographic Location - SHIPMENT LEVEL                   | M | 1   |
| M             | 260 | REF | Reference Identification - SHIPMENT LEVEL              | M | 12  |
| M             | 335 | YNQ | Yes/No Question - SHIPMENT LEVEL                       | M | >1  |
|               | 335 | YNQ | Yes/No Question - SHIPMENT LEVEL                       | O | >1  |
| M             | 010 | HL  | Hierarchical Level - ORDER LEVEL                       | M | >1  |
| M             | 050 | PRF | Purchase Order Reference - ORDER LEVEL                 | M | >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 |
|               | 152 | LH1 | Hazardous Identification Information - TARE LEVEL      | O | 1   |
|               | 153 | LH2 | Hazardous Classification Information - TARE LEVEL      | O | 4   |
|               | 154 | LH3 | Hazardous Material Shipping Name - TARE LEVEL          | O | 12  |
|               | 155 | LFH | Freeform Hazardous Material Information - TARE LEVEL   | O | 20  |
|               | 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 |
|               | 152 | LH1 | Hazardous Identification Information - PACK LEVEL      | O | 1   |
|               | 153 | LH2 | Hazardous Classification Information - PACK LEVEL      | O | 4   |
|               | 154 | LH3 | Hazardous Material Shipping Name - PACK LEVEL          | O | 12  |
|               | 155 | LFH | Freeform Hazardous Material Information - PACK LEVEL   | O | 20  |

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

### Summary:

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

### Transaction Set Notes

- 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

- 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                 | <b>Transaction Set Identifier Code</b><br>Code uniquely identifying a Transaction Set<br>Refer to 004010 Data Element Dictionary for acceptable code values.                         | M ID 3/3          |
| M | ST02             | 329                 | <b>Transaction Set Control Number</b><br>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

| Ref.        | Data           |             |   |           |
|-------------|----------------|-------------|---|-----------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u>   |           |
| M           | BSN01          | 353         | <b>Transaction Set Purpose Code</b>   | M ID 2/2  |
|             |                |             | Code identifying purpose of transaction set   |           |
|             |                |             | 00 Original   |           |
|             |                |             | Refer to 004010 Data Element Dictionary for acceptable code values.   |           |
| M           | BSN02          | 396         | <b>Shipment Identification</b>  | M AN 2/30 |
|             |                |             | A unique control number assigned by the original shipper to identify a specific shipment  |           |
|             |                |             | Vendor Bill of Lading number or other shipment identifier   |           |
| M           | BSN03          | 373         | <b>Date</b>   | M DT 8/8  |
|             |                |             | Date expressed as CCYYMMDD  |           |
|             |                |             | Document create date  |           |
| M           | BSN04          | 337         | <b>Time</b>   | M TM 4/8  |
|             |                |             | 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) |           |
|             | BSN05          | 1005        | <b>Hierarchical Structure Code</b>  | O ID 4/4  |
|             |                |             | 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.   |           |

**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                 | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure  | M AN 1/12         |
|   | HL02             | 734                 | <b>Hierarchical Parent ID Number</b><br>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                 | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>S Shipment<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 1/2          |
|   | HL04             | 736                 | <b>Hierarchical Child Code</b><br>Code indicating if there are hierarchical child data segments subordinate to the level being described<br>1 Additional Subordinate HL Data Segment in This Hierarchical Structure<br>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:** 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.</u> | <u>Data</u>    | <u>Name</u>  | <u>Attributes</u> |
|---|-------------|----------------|--|-------------------|
|   | <u>Des.</u> | <u>Element</u> |  |                   |
| M | TD101       | 103            | <b>Packaging Code</b><br>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<br>CAS Case<br>CTN Carton<br>PLT Pallet<br>TBN Tote / Bin<br>PLT is applicable to all Non-RX warehouse shipments. The other codes may apply to RX items and Store shipments.<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M AN 3/5          |
| M | TD102       | 80             | <b>Lading Quantity</b><br>Number of units (pieces) of the lading commodity   | M N0 1/7          |
| M | TD106       | 187            | <b>Weight Qualifier</b><br>Code defining the type of weight<br>G Gross Weight<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 1/2          |
| M | TD107       | 81             | <b>Weight</b><br>Numeric value of weight   | M R 1/10          |
| M | TD108       | 355            | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>LB Pound<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 2/2          |
| M | TD109       | 183            | <b>Volume</b><br>Value of volumetric measure   | M R 1/8           |
| M | TD110       | 355            | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>CF Shipment Cube<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 2/2          |

**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time) - SHIPMENT LEVEL  
**Position:** 120  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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 |
|------|--------------|---|------------|
| M    | TD501        | 133 Routing Sequence Code   | M 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.   |            |
| M    | TD502        | 66 Identification Code Qualifier  | M 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.   |            |
| M    | TD503        | 67 Identification Code  | M AN 2/80  |
|      |              | Code identifying a party or other code  |            |
|      |              | Standard Carrier Abbreviation Code (SCAC)   |            |
| M    | TD504        | 91 Transportation Method/Type Code  | M 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.   |            |
| M    | TD505        | 387 Routing   | M 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:** Mandatory  
**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> |
| M           | TD301          | 40 Equipment Description Code   | M 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.   |                   |
| M           | TD303          | 207 Equipment Number  | M 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:** 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:** 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

| Ref.        | Data           | Name  | Attributes        |
|-------------|----------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u>   | <u>Attributes</u> |
| M           | REF01          | 128 Reference Identification Qualifier  | M ID 2/3          |
|             |                | 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           | REF02          | 127 Reference Identification  | M AN 1/30         |
|             |                | 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)   |                   |

**Segment:** **LH1** Hazardous Identification Information - SHIPMENT LEVEL  
**Position:** 152  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:** HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

**Data Element Summary**

|   | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|---|------------------|---------------------|--|-------------------|
| M | LH101            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>05 Lifts<br>CH Container<br>CP Crate<br>GD Gross Barrels<br>PK Package<br>PL Pallet/Unit Load<br>SV Skid<br>SX Shipment<br>TC Truckload<br>TE Tote<br>TP Ten-pack<br>TY Tray<br>UN Unit | M ID 2/2          |
|   |                  |                     | Refer to 004010 Data Element Dictionary for acceptable code values.  |                   |
| M | LH102            | 80                  | <b>Lading Quantity</b><br>Number of units (pieces) of the lading commodity   | M N0 1/7          |
|   | LH103            | 277                 | <b>UN/NA Identification Code</b><br>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          |
|   | LH104            | 200                 | <b>Hazardous Materials Page</b><br>The United Nations page number as required for the international transport of hazardous materials   | O AN 1/6          |
|   | LH106            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>01 Actual Pounds<br>06 Digits (Expresses a value using total number of digits e.g. 6 digits)  | O ID 2/2          |



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.

|              |            |                            |                 |
|--------------|------------|----------------------------|-----------------|
| <b>LH107</b> | <b>380</b> | <b>Quantity</b>            | <b>O R 1/15</b> |
|              |            | Numeric value of quantity  |                 |
| <b>LH108</b> | <b>595</b> | <b>Compartment ID Code</b> | <b>O ID 1/1</b> |

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

**Segment:** **LH2** Hazardous Classification Information - SHIPMENT LEVEL  
**Position:** 153  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

#### Data Element Summary

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

**Segment:** **LH3** Hazardous Material Shipping Name - SHIPMENT LEVEL  
**Position:** 154  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

**Data Element Summary**

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

**Segment:** **LFH** Freeform Hazardous Material Information - SHIPMENT LEVEL  
**Position:** 155  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

### Data Element Summary

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

**Segment:** **PER** Administrative Communications Contact - SHIPMENT LEVEL  
**Position:** 160  
**Loop:** LH1 Optional  
**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:** Must use for Labelled Hazmat Products.

**Data Element Summary**

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

**Segment:** **DTM** Date/Time Reference - SHIPMENT LEVEL  
**Position:** 200  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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**

|   | <b>Ref.</b> | <b>Data</b>    |   | <b>Attributes</b> |
|---|-------------|----------------|---|-------------------|
|   | <b>Des.</b> | <b>Element</b> | <b>Name</b>   |                   |
| M | DTM01       | 374            | <b>Date/Time Qualifier</b>  | 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            | <b>Date</b>   | 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

| Ref.        | Data           | Name   | Attributes       |
|-------------|----------------|--|------------------|
| <u>Des.</u> | <u>Element</u> |  |                  |
| M           | FOB01          | <b>146 Shipment Method of Payment</b>  | <b>M ID 2/2</b>  |
|             |                | Code identifying payment terms for transportation charges                                  |                  |
|             |                | OR Origin (Shipping Point)   |                  |
|             |                | Refer to 004010 Data Element Dictionary for acceptable code values.                        |                  |
|             | FOB02          | <b>309 Location Qualifier</b>  | <b>X ID 1/2</b>  |
|             |                | Code identifying type of location  |                  |
|             |                | PS 5 Digit U.S. ZIP  |                  |
|             |                | PU 6 Digit Canadian Postal Code  |                  |
|             |                | Refer to 004010 Data Element Dictionary for acceptable code values.                        |                  |
|             | FOB03          | <b>352 Description</b>   | <b>O AN 1/80</b> |
|             |                | A free-form description to clarify the related data elements and their content             |                  |
|             |                | Usually a general, free form message regarding FOB status of the shipment.                 |                  |
|             |                | Example: "At Dock"   |                  |
|             | FOB04          | <b>334 Transportation Terms Qualifier Code</b>   | <b>O ID 2/2</b>  |
|             |                | Code identifying the source of the transportation terms                                    |                  |
|             |                | 02 Trade Terms   |                  |
|             |                | Refer to 004010 Data Element Dictionary for acceptable code values.                        |                  |
|             | FOB05          | <b>335 Transportation Terms Code</b>   | <b>X ID 3/3</b>  |
|             |                | 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.                        |                  |



**Segment:** **N1** Name - SHIP FROM - SHIPMENT LEVEL  
**Position:** 220  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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

| Ref.        | Data           |             |   |                   |
|-------------|----------------|-------------|---|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> |   | <u>Attributes</u> |
| M           | N101           | 98          | <b>Entity Identifier Code</b>   | M ID 2/3          |
|             |                |             | 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           | N102           | 93          | <b>Name</b>   | M AN 1/60         |
|             |                |             | Free-form name  |                   |
| M           | N103           | 66          | <b>Identification Code Qualifier</b>  | M 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.                       |                   |
| M           | N104           | 67          | <b>Identification Code</b>  | M AN 2/80         |
|             |                |             | Code identifying a party or other code  |                   |

**Segment:** N2 Additional Name Information - SHIPMENT LEVEL  
**Position:** 230  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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           |             |   | Attributes |
|-------------|----------------|-------------|---|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> |   |            |
| M           | N201           | 93          | Name  | M AN 1/60  |
|             |                |             | Free-form name  |            |
|             |                |             | If RX, DEA Number, If Non-RX GLN if Available         |            |
|             | N202           | 93          | Name  | O AN 1/60  |
|             |                |             | Free-form name  |            |
|             |                |             | GLN If available for RX Products. Not used for Non-RX |            |

**Segment:** N3 Address Information - SHIPMENT LEVEL  
**Position:** 240  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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<br>Address information | M AN 1/55         |
|   | N302        | 166            | Address Information<br>Address information | O AN 1/55         |

**Segment:** **N4** Geographic Location - SHIPMENT LEVEL  
**Position:** 250  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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           |             |  | Attributes |
|-------------|----------------|-------------|--|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> |  |            |
| M           | N401           | 19          | City Name  | M AN 2/30  |
|             |                |             | Free-form text for city name   |            |
| M           | N402           | 156         | State or Province Code   | M ID 2/2   |
|             |                |             | Code (Standard State/Province) as defined by appropriate government agency                                 |            |
| M           | N403           | 116         | Postal Code  | M 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 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number.<br>FW State License Identification Number<br>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<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/3          |
| M | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>NABP or State License ID Number, aligned with qualifier used in REF01.   | M AN 1/30         |
| M | REF03            | 352                 | <b>Description</b><br>A free-form description to clarify the related data elements and their content<br>Standard 2-character abbreviation for the state in which the License Number is applicable.   | M AN 1/80         |

**Segment:** **PER** Administrative Communications Contact - SHIPMENT LEVEL  
**Position:** 270  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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 segemts 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. | Des.  | 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 Cordinator  |            |
|      |       |              | SD Shipping Department   |            |
|      |       |              | Refer to 004010 Data Element Dictionary for acceptable code values.            |            |
| M    | PER02 | 93           | Name   | M AN 1/60  |
|      |       |              | Free-form name   |            |
| M    | PER03 | 365          | Communication Number Qualifier   | M ID 2/2   |
|      |       |              | Code identifying the type of communication number                              |            |
|      |       |              | TE Telephone   |            |
|      |       |              | Refer to 004010 Data Element Dictionary for acceptable code values.            |            |
| M    | PER04 | 364          | Communication Number   | M AN 1/80  |
|      |       |              | Complete communications number including country or area code when applicable  |            |
|      |       |              | A valid telephone number must be provided.                                     |            |
| M    | PER05 | 365          | Communication Number Qualifier   | M ID 2/2   |
|      |       |              | Code identifying the type of communication number                              |            |
|      |       |              | EM Electronic Mail   |            |
|      |       |              | Refer to 004010 Data Element Dictionary for acceptable code values.            |            |
| M    | PER06 | 364          | Communication Number   | M 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 Des. | 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 |            |
|      |           |              | 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.                       |            |
| M    | N102      | 93           | Name  | M AN 1/60  |
|      |           |              | Free-form name  |            |
| M    | N103      | 66           | Identification Code Qualifier   | M 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.                       |            |
| M    | N104      | 67           | Identification Code   | M 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:** Mandatory  
**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<br>Free-form name<br>If RX, DEA Number, If Non-RX GLN if Available         | M AN 1/60         |
| M | N202             | 93                  | Name<br>Free-form name<br>GLN If available for RX Products. Not used for Non-RX | M AN 1/60         |



**Segment:** N3 Address Information - SHIPMENT LEVEL  
**Position:** 240  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Mandatory  
**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<br>Address information | M AN 1/55         |
|   | N302        | 166         | Address Information<br>Address information | O AN 1/55         |

**Segment:** **N4** Geographic Location - SHIPMENT LEVEL  
**Position:** 250  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Mandatory  
**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>  |           |
| M           | N401           | 19          | City Name  | M AN 2/30 |
|             |                |             | Free-form text for city name   |           |
| M           | N402           | 156         | State or Province Code   | M ID 2/2  |
|             |                |             | Code (Standard State/Province) as defined by appropriate government agency                                 |           |
| M           | N403           | 116         | Postal Code  | M 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:** Mandatory  
**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                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number.<br>FW State License Identification Number<br>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<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/3          |
| M | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>NABP or State License ID Number, aligned with qualifier used in REF01.   | M AN 1/30         |
| M | REF03            | 352                 | <b>Description</b><br>A free-form description to clarify the related data elements and their content<br>Standard 2-character abbreviation for the state in which the License Number is applicable.   | M AN 1/80         |

**Segment:** **PER** Administrative Communications Contact - SHIPMENT LEVEL  
**Position:** 270  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Mandatory  
**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**

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

**Segment:** **N1** Name - SHIP TO - SHIPMENT LEVEL  
**Position:** 220  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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

| Ref. | Data Des. | 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<br>ST Ship To<br>Refer to 004010 Data Element Dictionary for acceptable code values.         |            |
| M    | N102      | 93           | Name   | M AN 1/60  |
|      |           |              | Free-form name   |            |
| M    | N103      | 66           | Identification Code Qualifier  | M ID 1/2   |
|      |           |              | Code designating the system/method of code structure used for Identification Code (67)   |            |
|      |           |              | 1 D-U-N-S Number, Dun & Bradstreet<br>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix<br>11 Drug Enforcement Administration (DEA)<br>54 Warehouse Number<br>92 CVS Store Number |            |
|      |           |              | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |

**M**

**N104**

**67**

**Identification Code**

Code identifying a party or other code

**M AN 2/80**

**Segment:** N2 Additional Name Information - SHIPMENT LEVEL  
**Position:** 230  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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           |   |                   |         |
|-------------|----------------|---|-------------------|---------|
| <u>Des.</u> | <u>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   |                   |         |
|             | 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 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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> |
|---|-------------|-------------|--|-------------------|
| M | N301        | 166         | Address Information<br>Address information | M AN 1/55         |
|   | N302        | 166         | Address Information<br>Address information | O AN 1/55         |



**Segment:** **N4** Geographic Location - SHIPMENT LEVEL  
**Position:** 250  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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           |             |  | Attributes |
|-------------|----------------|-------------|--|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> |  |            |
| M           | N401           | 19          | City Name  | M AN 2/30  |
|             |                |             | Free-form text for city name   |            |
| M           | N402           | 156         | State or Province Code   | M ID 2/2   |
|             |                |             | Code (Standard State/Province) as defined by appropriate government agency                                 |            |
| M           | N403           | 116         | Postal Code  | M 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 Mandatory  
**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                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number.<br>FW State License Identification Number<br>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<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/3          |
|   | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>NABP or State License ID Number, aligned with qualifier used in REF01.   | X AN 1/30         |
|   | REF03            | 352                 | <b>Description</b><br>A free-form description to clarify the related data elements and their content<br>Standard 2-character abbreviation for the state in which the License Number is applicable.   | X AN 1/80         |
|   | REF04            | C040                | <b>Reference Identifier</b><br>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier   | O                 |
| M | C04001           | 128                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 2/3          |
| M | C04002           | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier   | M AN 1/30         |
|   | C04003           | 128                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | X ID 2/3          |

|               |            |   |                  |
|---------------|------------|---|------------------|
| <b>C04004</b> | <b>127</b> | <b>Reference Identification</b>   | <b>X AN 1/30</b> |
|               |            | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |                  |
| <b>C04005</b> | <b>128</b> | <b>Reference Identification Qualifier</b>   | <b>X ID 2/3</b>  |
|               |            | Code qualifying the Reference Identification  |                  |
|               |            | Refer to 004010 Data Element Dictionary for acceptable code values.   |                  |
| <b>C04006</b> | <b>127</b> | <b>Reference Identification</b>   | <b>X AN 1/30</b> |
|               |            | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier |                  |

**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.

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 Des. | 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<br>BY Buying Party<br>Buyer N1-N2-N3-N4-REF  |            |
|      |           |         | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | N102      | 93      | Name   | M AN 1/60  |
|      |           |         | Free-form name   |            |
| M    | N103      | 66      | Identification Code Qualifier  | M ID 1/2   |
|      |           |         | Code designating the system/method of code structure used for Identification Code (67)   |            |
|      |           |         | 1 D-U-N-S Number, Dun & Bradstreet<br>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix<br>11 Drug Enforcement Administration (DEA)<br>54 Warehouse Code<br>92 CVS Store Number |            |
|      |           |         | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | N104      | 67      | Identification Code  | M 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:** Mandatory  
**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<br>Free-form name  | M AN 1/60         |
|   |                  |                     | UCC/EAN Location Code<br>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. |                   |
|   | N202             | 93                  | Name<br>Free-form name  | O AN 1/60         |

**Segment:** N3 Address Information - SHIPMENT LEVEL  
**Position:** 240  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** Example: N3\*One CVS Drive\*Logistics Department~

**Data Element Summary**

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

**Segment:** **N4 Geographic Location - SHIPMENT LEVEL**  
**Position:** 250  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Mandatory  
**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             | <b>City Name</b><br>Free-form text for city name  | O AN 2/30         |
| N402        | 156            | <b>State or Province Code</b><br>Code (Standard State/Province) as defined by appropriate government agency                           | O ID 2/2          |
| N403        | 116            | <b>Postal Code</b><br>Code defining international postal zone code excluding punctuation and blanks (zip code for United States)      | O ID 3/15         |
| N404        | 26             | <b>Country Code</b><br>Code identifying the country   | O ID 2/3          |
| N405        | 309            | <b>Location Qualifier</b><br>Code identifying type of location<br>Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 1/2          |
| N406        | 310            | <b>Location Identifier</b><br>Code which identifies a specific location   | O AN 1/30         |

**Segment:** **REF** Reference Identification - SHIPMENT LEVEL  
**Position:** 260  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Mandatory  
**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                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>D3 National Association of Boards of Pharmacy Number Supplier's NABP provided VAWD (Verified Accredited Wholesale Distributors™) Number.<br>FW State License Identification Number<br>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<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/3          |
| M | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>NABP or State License ID Number, aligned with qualifier used in REF01.   | M AN 1/30         |
|   | REF03            | 352                 | <b>Description</b><br>A free-form description to clarify the related data elements and their content<br>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:** Mandatory

**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:** 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

Example1, DSCSA:  
YNQ\*CX\*Y\*\*\*Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G).\*\*\*99\*TS~

Example1, non- DSCSA:  
YNQ\*CX\*N~

#### Data Element Summary

| Ref. Des. | Data Element | Name   | Attributes |
|-----------|--------------|--|------------|
| M         | YNQ01        | 1321 Condition Indicator   | M 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 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         | YNQ05        | 933 Free-Form Message Text   | M AN 1/264 |
|           |              | Free-form message text   |            |
|           |              | Seller has complied with each applicable subsection of FDCA Sec. 581(27)(A)–(G). |            |
|           | YNQ06        | 933 Free-Form Message Text   | O AN 1/264 |
|           |              | Free-form message text   |            |
|           | YNQ07        | 933 Free-Form Message Text   | O AN 1/264 |
|           |              | Free-form message text   |            |
| M         | YNQ08        | 1270 Code List Qualifier Code  | M ID 1/3   |

|   |       |      |   |
|---|-------|------|---|
|   |       |      | Code identifying a specific industry code list                      |
|   |       |      | 99 Purpose Code   |
|   |       |      | Refer to 004010 Data Element Dictionary for acceptable code values. |
| M | YNQ09 | 1271 | <b>Industry Code</b> M 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  
**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:** Must use if Product is a Direct Purchase  
 The YNQ02 should have a value of 'Y' which indicates that DSCSA applies.  
 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. | Ref. Des. | Data Element | Name   | Attributes |
|------|-----------|--------------|--|------------|
| M    | YNQ01     | 1321         | Condition Indicator<br>Code indicating a condition<br>CX Certification Status<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 2/2   |
| M    | YNQ02     | 1073         | Yes/No Condition or Response Code<br>Code indicating a Yes or No condition or response<br>Y Yes<br>YNQ05 includes Direct Purchase Statement<br>Refer to 004010 Data Element Dictionary for acceptable code values.           | M ID 1/1   |
| M    | YNQ05     | 933          | Free-Form Message Text<br>Free-form message text<br>As indicated below, product was purchased directly from the manufacturer, manufacturer's exclusive distributor or repackager who purchased directly from a manufacturer. | M AN 1/264 |
| M    | YNQ08     | 1270         | Code List Qualifier Code<br>Code identifying a specific industry code list<br>99 Purpose Code<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 1/3   |
| M    | YNQ09     | 1271         | Industry Code<br>Code indicating a code from a specific industry code list   | M AN 1/30  |

DPS Direct Purchase Statement

**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.  |            |
| M    | HL04         | Hierarchical Child Code  | M 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:** Mandatory  
**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           |  |                   |         |
|-------------|----------------|--|-------------------|---------|
| <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  |                   |         |
| M           | PRF02          | 328 Release Number   | M                 | 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                 | <b>Packaging Code</b><br>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<br>CAS Case<br>CTN Carton<br>PLT Pallet<br>TBN Tote / Bin<br>PLT is applicable to all Non-RX warehouse shipments. The other codes may apply to RX items and Store shipments.<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M AN 3/5          |
| M | TD102            | 80                  | <b>Lading Quantity</b><br>Number of units (pieces) of the lading commodity   | M N0 1/7          |
| M | TD106            | 187                 | <b>Weight Qualifier</b><br>Code defining the type of weight<br>G Gross Weight<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 1/2          |
| M | TD107            | 81                  | <b>Weight</b><br>Numeric value of weight   | M R 1/10          |
| M | TD108            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>LB Pound<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 2/2          |
| M | TD109            | 183                 | <b>Unit or Basis for Measurement Code</b><br>Value of volumetric measure   | M R 1/8           |
| M | TD110            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>CF Shipment Cube<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M 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                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>IV Seller's Invoice Number<br>VN Vendor Number<br>Refer to 004010 Data Element Dictionary for acceptable code values.                 | M ID 2/3          |
| M | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Seller's Invoice Number or Vendor Number as aligned to the REF01 | M AN 1/30         |
| M | REF03            | 352                 | <b>Description</b><br>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         | <b>Hierarchical ID Number</b>  | M AN 1/12  |
|      |              | A unique number assigned by the sender to identify a particular data segment in a hierarchical structure                   |            |
|      | HL02         | <b>Hierarchical Parent ID Number</b>   | O AN 1/12  |
|      |              | Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to |            |
| M    | HL03         | <b>Hierarchical Level Code</b>   | M ID 1/2   |
|      |              | 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    | HL04         | <b>Hierarchical Child Code</b>   | M 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:** **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<br>Code qualifying the Reference Identification<br>SE Serial Number<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/3          |
| M | REF02            | 127                 | Description<br>A free-form description to clarify the related data elements and their content<br>Serial Number in GS1 EPC format.   | M AN 1/30         |

**Segment:** **LH1** Hazardous Identification Information - TARE LEVEL  
**Position:** 152  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:** HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

#### Data Element Summary

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

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

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

**Segment:** **LH2** Hazardous Classification Information -TARE LEVEL  
**Position:** 153  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

#### Data Element Summary

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

**Data Element Summary**

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

**Segment:** **LFH** Freeform Hazardous Material Information - TARE LEVEL  
**Position:** 155  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

### Data Element Summary

|   | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|---|-------------|----------------|---|-------------------|
|   | <u>Des.</u> | <u>Element</u> |   |                   |
| M | LFH01       | 808            | <b>Hazardous Material Shipment Information Qualifier</b>  | 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            | <b>Hazardous Material Shipment Information</b>  | M AN 1/25         |
|   |             |                | Specific information required by law for hazardous material shipments   |                   |
|   | LFH03       | 809            | <b>Hazardous Material Shipment Information</b>  | O AN 1/25         |
|   |             |                | Specific information required by law for hazardous material shipments   |                   |
|   | LFH04       | 1023           | <b>Hazard Zone Code</b>   | 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  
**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:** Must use for Labelled Hazmat Products. 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<br>HM Hazardous Material Contact<br>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<br>TE Telephone<br>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<br>A valid telephone number must be provided.  |            |
|      | PER05        | 365 Communication Number Qualifier   | X ID 2/2   |
|      |              | Code identifying the type of communication number<br>EM Electronic Mail<br>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<br>A valid email address must be provided.   |            |

|                        |  |
|------------------------|--|
| <b>Segment:</b>        | <b>MAN</b> Marks and Numbers - TARE LEVEL  |
| <b>Position:</b>       | 190  |
| <b>Loop:</b>           | HL Mandatory   |
| <b>Level:</b>          | Detail   |
| <b>Usage:</b>          | Mandatory  |
| <b>Max Use:</b>        | >1   |
| <b>Purpose:</b>        | To indicate identifying marks and numbers for shipping containers  |
| <b>Syntax Notes:</b>   | <ol style="list-style-type: none"> <li>1 If either MAN04 or MAN05 is present, then the other is required.</li> <li>2 If MAN06 is present, then MAN05 is required.</li> </ol>   |
| <b>Semantic Notes:</b> | <ol style="list-style-type: none"> <li>1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.</li> <li>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.</li> <li>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.</li> </ol>  |
| <b>Comments:</b>       | <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> </ol> |
| <b>Notes:</b>          | <p>Semantic Notes:<br/> 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.</u> | <u>Data</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   |                   |
|             |             |                | (See <a href="http://cvssuppliers.com">www.cvssuppliers.com</a> regarding formatting information, <a href="http://cvssuppliers.com/sites/default/files/CVS%20GS1-128%20Label%20Requirements_0.pdf">http://cvssuppliers.com/sites/default/files/CVS%20GS1-128%20Label%20Requirements_0.pdf</a> ) |                   |
|             |             |                | 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            | <b>Pallet Type Code</b><br>Code indicating the type of pallet<br>6 Wood<br>Refer to 004010 Data Element Dictionary for acceptable code values.  | M ID 1/2          |
| M | PAL02       | 884            | <b>Pallet Tiers</b><br>The number of layers per pallet  | M N0 1/3          |
| M | PAL03       | 885            | <b>Pallet Blocks</b><br>The number of pieces (cartons) per layer on the pallet  | M N0 1/3          |
| M | PAL05       | 395            | <b>Unit Weight</b><br>Numeric value of weight per unit<br>Numeric value of weight of pallet.  | M R 1/8           |
| M | PAL06       | 355            | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>LB Pounds<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/2          |
| M | PAL07       | 82             | <b>Length</b><br>Largest horizontal dimension of an object measured when the object is in the upright position  | M R 1/8           |
| M | PAL08       | 189            | <b>Width</b><br>Shorter measurement of the two horizontal dimensions measured with the object in the upright position   | M R 1/8           |

|   |       |     |  |          |
|---|-------|-----|--|----------|
| M | PAL09 | 65  | <b>Height</b><br>Vertical dimension of an object measured when the object is in the upright position   | M R 1/8  |
| M | PAL10 | 355 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>IN Inches<br>FT Foot<br>MR Meter<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/2 |
| M | PAL15 | 399 | <b>Pallet Exchange Code</b><br>Code specifying pallet exchange instructions<br>1 No Exchange/No Return<br>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         | <b>Hierarchical ID Number</b>  | M AN 1/12  |
|      |              | A unique number assigned by the sender to identify a particular data segment in a hierarchical structure                   |            |
|      | HL02         | <b>Hierarchical Parent ID Number</b>   | O AN 1/12  |
|      |              | Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to |            |
| M    | HL03         | <b>Hierarchical Level Code</b>   | M ID 1/2   |
|      |              | Code defining the characteristic of a level in a hierarchical structure  |            |
|      |              | P Pack   |            |
|      |              | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | HL04         | <b>Hierarchical Child Code</b>   | M 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 - 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>Data</u>  | <u>Attributes</u> |
|---|-------------|--|-------------------|
|   | <u>Des.</u> | <u>Element</u> <u>Name</u>   |                   |
| M | LIN01       | <b>350</b> <b>Assigned Identification</b>  | <b>M AN 1/20</b>  |
|   |             | Alphanumeric characters assigned for differentiation within a transaction set  |                   |
| M | LIN02       | <b>235</b> <b>Product/Service ID Qualifier</b>   | <b>M ID 2/2</b>   |
|   |             | 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       | <b>234</b> <b>Product/Service ID</b>   | <b>M AN 1/48</b>  |
|   |             | Identifying number for a product or service  |                   |
|   |             | UPC/EAN case or container code as appropriate, aligned with LIN 02   |                   |
|   | LIN04       | <b>235</b> <b>Product/Service ID Qualifier</b>   | <b>X ID 2/2</b>   |
|   |             | 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.                         |                  |
| <b>LIN05</b> | <b>234</b> | <b>Product/Service ID</b>   | <b>X AN 1/48</b> |
|              |            | Identifying number for a product or service   |                  |
|              |            | UPC or NDC number as appropriate, aligned with LIN 02                                       |                  |
| <b>LIN06</b> | <b>235</b> | <b>Product/Service ID Qualifier</b>   | <b>X ID 2/2</b>  |
|              |            | 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.                         |                  |
| <b>LIN07</b> | <b>234</b> | <b>Product/Service ID</b>   | <b>X AN 1/48</b> |
|              |            | Identifying number for a product or service   |                  |
|              |            | Vendor Catalog Number   |                  |

|                        |   |
|------------------------|---|
| <b>Segment:</b>        | <b>PO4</b> Item Physical Details - PACK LEVEL   |
| <b>Position:</b>       | 060   |
| <b>Loop:</b>           | HL Mandatory  |
| <b>Level:</b>          | Detail  |
| <b>Usage:</b>          | Mandatory   |
| <b>Max Use:</b>        | 1   |
| <b>Purpose:</b>        | To specify the physical qualities, packaging, weights, and dimensions relating to the item  |
| <b>Syntax Notes:</b>   | <ol style="list-style-type: none"> <li>1 If either PO402 or PO403 is present, then the other is required.</li> <li>2 If PO405 is present, then PO406 is required.</li> <li>3 If either PO406 or PO407 is present, then the other is required.</li> <li>4 If either PO408 or PO409 is present, then the other is required.</li> <li>5 If PO410 is present, then PO413 is required.</li> <li>6 If PO411 is present, then PO413 is required.</li> <li>7 If PO412 is present, then PO413 is required.</li> <li>8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required.</li> <li>9 If PO417 is present, then PO416 is required.</li> <li>10 If PO418 is present, then PO404 is required.</li> </ol>  |
| <b>Semantic Notes:</b> | <ol style="list-style-type: none"> <li>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.</li> <li>2 PO416 is the package identifier or the beginning package identifier in a range of identifiers.</li> <li>3 PO417 is the ending package identifier in a range of identifiers.</li> <li>4 PO418 is the number of packages in this layer.</li> </ol>   |
| <b>Comments:</b>       | <ol style="list-style-type: none"> <li>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".</li> <li>2 PO413 defines the unit of measure for PO410, PO411, and PO412.</li> </ol>  |
| <b>Notes:</b>          | <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>Example: PO4*12*4*CA**G*468*07*321*CC*20*10*3*IN*24*06*11***48~</p> |

#### Data Element Summary

| <u>Ref.</u> | <u>Data</u>          | <u>Name</u>   | <u>Attributes</u> |
|-------------|----------------------|---|-------------------|
| M           | <u>Des.</u><br>PO401 | <u>Element</u><br>356<br><u>Pack</u>  | 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 | <b>Size</b><br>Size of supplier units in pack   | M R 1/8  |
| M | PO403 | 355 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>AM Ampoule<br>BO Bottle<br>BX Box<br>CA Case<br>CT Carton<br>DS Display<br>DZ Dozen<br>EA Each<br>GS Gross<br>OZ Ounce - Av<br>PC Piece<br>PK Package<br>SP Shelf Package<br>SZ Syringe<br>UN Unit<br>Use UN for pill counts or for partials.<br>VI Vial<br>Use any appropriate code from data element 355, as agreed by the trading partners. | M ID 2/2 |
| M | PO405 | 187 | <b>Weight Qualifier</b><br>Code defining the type of weight<br>G Gross Weight   | M ID 1/2 |
| M | PO406 | 384 | <b>Gross Weight per Pack</b><br>Numeric value of gross weight per pack  | M R 1/9  |
| M | PO407 | 355 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>01 Actual Pounds   | M ID 2/2 |
| M | PO408 | 385 | <b>Gross Volume per Pack</b><br>Numeric value of gross volume per pack  | M R 1/9  |
| M | PO409 | 355 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>CC Cubic Centimeter<br>CF Cubic Feet<br>CI Cubic Inches<br>CR Cubic Meter<br>CY Cubic Yard<br>Refer to 004010 Data Element Dictionary for acceptable code values.  | M ID 2/2 |

|   |       |      |   |          |
|---|-------|------|---|----------|
| M | PO410 | 82   | <b>Length</b><br>Largest horizontal dimension of an object measured when the object is in the upright position  | M R 1/8  |
| M | PO411 | 189  | <b>Width</b><br>Shorter measurement of the two horizontal dimensions measured with the object in the upright position   | M R 1/8  |
| M | PO412 | 65   | <b>Height</b><br>Vertical dimension of an object measured when the object is in the upright position  | M R 1/8  |
| M | PO413 | 355  | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>CM Centimeter<br>IN Inch<br>MM Millimeter<br>Refer to 004010 Data Element Dictionary for acceptable code values.   | M ID 2/2 |
| M | PO414 | 810  | <b>Inner Pack</b><br>The number of eaches per inner container   | M N0 1/6 |
| M | PO418 | 1470 | <b>Number</b><br>A generic number<br>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. | 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<br>Code qualifying the Reference Identification<br>SE Serial Number   | M ID 2/3          |
| M | REF02            | 127                 | Reference Identification<br>Refer to 004010 Data Element Dictionary for acceptable code values.<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Serial Number in GS1 EPC format. | M AN 1/30         |

**Segment:** **LH1** Hazardous Identification Information - PACK LEVEL  
**Position:** 152  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:** 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.

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

|              |             |   |                 |
|--------------|-------------|---|-----------------|
| <b>LH110</b> | <b>254</b>  | <b>Packing Group Code</b>   | <b>O ID 1/3</b> |
|              |             | Code indicating degree of danger in terms of Roman number I, II or III                  |                 |
| <b>LH111</b> | <b>1375</b> | <b>Interim Hazardous Material Regulatory Number</b>                                     | <b>O AN 1/5</b> |
|              |             | Identifies the current regulatory version number used for hazardous materials shipments |                 |

**Segment:** **LH2** Hazardous Classification Information - PACK LEVEL  
**Position:** 153  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

#### Data Element Summary

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

**Segment:** **LH3** Hazardous Material Shipping Name - PACK LEVEL  
**Position:** 154  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

**Data Element Summary**

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



**Segment:** **LFH** Freeform Hazardous Material Information - PACK LEVEL  
**Position:** 155  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

### Data Element Summary

|   | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|---|-------------|----------------|---|-------------------|
|   | <u>Des.</u> | <u>Element</u> |   |                   |
| M | LFH01       | 808            | <b>Hazardous Material Shipment Information Qualifier</b>  | 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            | <b>Hazardous Material Shipment Information</b>  | M AN 1/25         |
|   |             |                | Specific information required by law for hazardous material shipments   |                   |
|   | LFH03       | 809            | <b>Hazardous Material Shipment Information</b>  | O AN 1/25         |
|   |             |                | Specific information required by law for hazardous material shipments   |                   |
|   | LFH04       | 1023           | <b>Hazard Zone Code</b>   | 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  
**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:**

Must use for Labelled Hazmat Products. 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<br>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<br>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<br>A valid telephone number must be provided. |            |
|      | PER05        | 365 Communication Number Qualifier  | X ID 2/2   |
|      |              | Code identifying the type of communication number<br>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<br>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:**

- 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\*00123456789098765432~

#### Data Element Summary

| Ref.        | Data           |             |   |
|-------------|----------------|-------------|---|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u>   |
| M           | MAN01          | 88          | <b>Marks and Numbers Qualifier</b><br>Code specifying the application or source of Marks and Numbers (87)<br>GM SSCC-18 and Application Identifier<br>Refer to 004010 Data Element Dictionary for acceptable code values. |
| M           | MAN02          | 87          | <b>Marks and Numbers</b><br>Marks and numbers used to identify a shipment or parts of a shipment<br>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  
**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

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         |            |
|      |              | 208 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         | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure                          | M AN 1/12  |
|      | HL02         | <b>Hierarchical Parent ID Number</b><br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O AN 1/12  |
| M    | HL03         | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure  | M ID 1/2   |
|      |              | Q Subpack  |            |
|      |              | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | HL04         | <b>Hierarchical Child Code</b><br>Code indicating if there are hierarchical child data segments subordinate to the level being described                           | M ID 1/1   |
|      |              | 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  
**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   |            |
|      | 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.  |            |
|      | 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                                       |                  |
| <b>LIN06</b> | <b>235</b> | <b>Product/Service ID Qualifier</b>   | <b>X ID 2/2</b>  |
|              |            | 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.                         |                  |
| <b>LIN07</b> | <b>234</b> | <b>Product/Service ID</b>   | <b>X AN 1/48</b> |
|              |            | 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

**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

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

**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<br>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<br>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  
**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:** Example: DTM\*208\*20170225~

**Data Element Summary**

| Ref.        | Data           |             |   |          |
|-------------|----------------|-------------|---|----------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u>   |          |
| M           | DTM01          | 374         | <b>Date/Time Qualifier</b>  | M ID 3/3 |
|             |                |             | Code specifying type of date or time, or both date and time         |          |
|             |                |             | 208 Lot Number Expiration   |          |
|             |                |             | Refer to 004010 Data Element Dictionary for acceptable code values. |          |
|             | DTM02          | 373         | <b>Date</b>   | 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   | 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  |            |
|      |              | I Item   |            |
|      |              | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | HL04         | Hierarchical Child Code  | M ID 1/1   |
|      |              | Code indicating if there are hierarchical child data segments subordinate to the level being described                     |            |
|      |              | 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  
**Level:** Detail  
**Usage:** Optional  
**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:** HazMat information and placarding/labelling must be provided in accordance to regulation, CVSHealth direction, and best practice.

#### Data Element Summary

|   | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|---|------------------|---------------------|--|-------------------|
| M | LH101            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>05 Lifts<br>CH Container<br>CP Crate<br>GD Gross Barrels<br>PK Package<br>PL Pallet/Unit Load<br>SV Skid<br>SX Shipment<br>TC Truckload<br>TE Tote<br>TP Ten-pack<br>TY Tray<br>UN Unit | M ID 2/2          |
|   |                  |                     | Refer to 004010 Data Element Dictionary for acceptable code values.  |                   |
| M | LH102            | 80                  | <b>Lading Quantity</b><br>Number of units (pieces) of the lading commodity   | M N0 1/7          |
|   | LH103            | 277                 | <b>UN/NA Identification Code</b><br>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          |
|   | LH104            | 200                 | <b>Hazardous Materials Page</b><br>The United Nations page number as required for the international transport of hazardous materials   | O AN 1/6          |
|   | LH106            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>01 Actual Pounds<br>04 Small Spray  | O ID 2/2          |

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.

|              |            |                            |                 |
|--------------|------------|----------------------------|-----------------|
| <b>LH107</b> | <b>380</b> | <b>Quantity</b>            | <b>O R 1/15</b> |
|              |            | Numeric value of quantity  |                 |
| <b>LH108</b> | <b>595</b> | <b>Compartment ID Code</b> | <b>O ID 1/1</b> |



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

**Segment:** **LH2** Hazardous Classification Information - ITEM LEVEL  
**Position:** 153  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

#### Data Element Summary

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

**Segment:** **LH3** Hazardous Material Shipping Name - ITEM LEVEL  
**Position:** 154  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

**Data Element Summary**

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

**Segment:** **LFH** Freeform Hazardous Material Information - ITEM LEVEL  
**Position:** 155  
**Loop:** LH1 Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

### Data Element Summary

| Ref. | Data Element | Name  | Attributes |
|------|--------------|---|------------|
| M    | LFH01        | <b>808 Hazardous Material Shipment Information Qualifier</b>  | 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   |            |
| M    | LFH02        | <b>809 Hazardous Material Shipment Information</b>  | M AN 1/25  |
|      |              | Specific information required by law for hazardous material shipments   |            |
|      | LFH03        | <b>809 Hazardous Material Shipment Information</b>  | O AN 1/25  |
|      |              | Specific information required by law for hazardous material shipments   |            |
|      | LFH04        | <b>1023 Hazard Zone Code</b>  | 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  
**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:** Must use for Labelled Hazmat Products. 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<br>HM Hazardous Material Contact<br>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<br>TE Telephone<br>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<br>A valid telephone number must be provided.  |            |
|      | PER05        | 365 Communication Number Qualifier   | X ID 2/2   |
|      |              | Code identifying the type of communication number<br>EM Electronic Mail<br>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<br>A valid email address must be provided.   |            |

|                        |   |
|------------------------|---|
| <b>Segment:</b>        | <b>LIN</b> Item Identification - ITEM LEVEL   |
| <b>Position:</b>       | 020   |
| <b>Loop:</b>           | HL Mandatory  |
| <b>Level:</b>          | Detail  |
| <b>Usage:</b>          | Mandatory   |
| <b>Max Use:</b>        | 1   |
| <b>Purpose:</b>        | To specify basic item identification data   |
| <b>Syntax Notes:</b>   | <ol style="list-style-type: none"> <li>1 If either LIN04 or LIN05 is present, then the other is required.</li> <li>2 If either LIN06 or LIN07 is present, then the other is required.</li> <li>3 If either LIN08 or LIN09 is present, then the other is required.</li> <li>4 If either LIN10 or LIN11 is present, then the other is required.</li> <li>5 If either LIN12 or LIN13 is present, then the other is required.</li> <li>6 If either LIN14 or LIN15 is present, then the other is required.</li> <li>7 If either LIN16 or LIN17 is present, then the other is required.</li> <li>8 If either LIN18 or LIN19 is present, then the other is required.</li> <li>9 If either LIN20 or LIN21 is present, then the other is required.</li> <li>10 If either LIN22 or LIN23 is present, then the other is required.</li> <li>11 If either LIN24 or LIN25 is present, then the other is required.</li> <li>12 If either LIN26 or LIN27 is present, then the other is required.</li> <li>13 If either LIN28 or LIN29 is present, then the other is required.</li> <li>14 If either LIN30 or LIN31 is present, then the other is required.</li> </ol> |
| <b>Semantic Notes:</b> | 1 LIN01 is the line item identification   |
| <b>Comments:</b>       | <ol style="list-style-type: none"> <li>1 See the Data Dictionary for a complete list of IDs.</li> <li>2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.<br/>For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>   |
| <b>Notes:</b>          | Example: LIN**UI*11234512345*PI*109876*VN*123456*VC*PC6789456~  |

#### Data Element Summary

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

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

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

|   |       |     |  |
|---|-------|-----|--|
|   |       |     | Quantity ordered   |
|   |       |     | Quantity Ordered on Original CVS Health PO   |
| M | SN106 | 355 | <b>Unit or Basis for Measurement Code</b> <span style="float: right;">M ID 2/2</span>                          |
|   |       |     | 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:** Mandatory

**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:** PO4\*12\*4\*CA\*DESHP\*CA\*468\*IN\*468\*CC\*20\*10\*3\*IN\*24\*06\*11~

#### Data Element Summary

| Ref.        | Data           |  | Attributes |
|-------------|----------------|--|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</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      |            |
|             |                | Eachs = Actual Sellable Units  |            |
| 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<br>OZ Ounce - Av<br>PC Piece<br>PK Package<br>SP Shelf Package<br>SZ Syringe<br>UN Unit<br>Use UN for pill counts or for partials.<br>VI Vial<br>Use any appropriate code from data element 355, as agreed by the trading partners.<br>Refer to 004010 Data Element Dictionary for acceptable code values. |                 |
|   | <b>PO405</b> | <b>187</b> | <b>Weight Qualifier</b>   | <b>O ID 1/2</b> |
|   |              |            | Code defining the type of weight  |                 |
|   |              |            | G Gross Weight  |                 |
|   |              |            | Refer to 004010 Data Element Dictionary for acceptable code values.   |                 |
| M | <b>PO406</b> | <b>384</b> | <b>Gross Weight per Pack</b>  | <b>M R 1/9</b>  |
|   |              |            | Numeric value of gross weight per pack  |                 |
| M | <b>PO407</b> | <b>355</b> | <b>Unit or Basis for Measurement Code</b>   | <b>M ID 2/2</b> |
|   |              |            | 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.   |                 |
| M | <b>PO408</b> | <b>385</b> | <b>Gross Volume per Pack</b>  | <b>M R 1/9</b>  |
|   |              |            | Numeric value of gross volume per pack  |                 |
| M | <b>PO409</b> | <b>355</b> | <b>Unit or Basis for Measurement Code</b>   | <b>M ID 2/2</b> |
|   |              |            | 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.   |                 |
| M | <b>PO410</b> | <b>82</b>  | <b>Length</b>   | <b>M R 1/8</b>  |
|   |              |            | Largest horizontal dimension of an object measured when the object is in the upright position   |                 |
| M | <b>PO411</b> | <b>189</b> | <b>Width</b>  | <b>M R 1/8</b>  |
|   |              |            | Shorter measurement of the two horizontal dimensions measured with the object in the upright position   |                 |
| M | <b>PO412</b> | <b>65</b>  | <b>Height</b>   | <b>M R 1/8</b>  |
|   |              |            | Vertical dimension of an object measured when the object is in the upright position   |                 |
| M | <b>PO413</b> | <b>355</b> | <b>Unit or Basis for Measurement Code</b>   | <b>M ID 2/2</b> |
|   |              |            | 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.   |                 |
| M | <b>PO414</b> | <b>810</b> | <b>Inner Pack</b>   | <b>M N0 1/6</b> |

The number of eaches per inner container

**Segment:** **PID** Product/Item Description - ITEM LEVEL

**Position:** 070

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**Max Use:** 200

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:**

- 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:**

- 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:**

- 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.   |                   |
| M           | PID05          | 352 Description   | M 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:** 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:**

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

**Segment:** **DTM** Date/Time Reference - ITEM LEVEL  
**Position:** 200  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** Example: DTM\*208\*20170225~

**Data Element Summary**

| Ref.        | Data           |             |  | Attributes |
|-------------|----------------|-------------|--|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</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.<br>Refer to 004010 Data Element Dictionary for acceptable code values. |            |
|             | 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  
**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. | Des. | 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<br>Exclusive Distributor  |            |
|      |      |              | MF Manufacturer of Goods<br>Original manufacturer  |            |
|      |      |              | SU Supplier/Manufacturer<br>Use for Supplier or Distributor for Indirect Shipments   |            |
|      |      |              | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | N102 | 93           | Name   | M AN 1/60  |
|      |      |              | Free-form name   |            |
|      |      |              | This is the legal company name.  |            |
| M    | N103 | 66           | Identification Code Qualifier  | M ID 1/2   |
|      |      |              | Code designating the system/method of code structure used for Identification   |            |
|      |      |              | 1 D-U-N-S Number, Dun & Bradstreet<br>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix<br>11 Drug Enforcement Administration (DEA) |            |
|      |      |              | Refer to 004010 Data Element Dictionary for acceptable code values.  |            |
| M    | N104 | 67           | Identification Code  | M 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  
**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           |             |   | Attributes |
|-------------|----------------|-------------|---|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> |   |            |
| M           | N201           | 93          | Name  | M AN 1/60  |
|             |                |             | Free-form name  |            |
|             |                |             | If RX, DEA Number, If Non-RX GLN if Available         |            |
|             | N202           | 93          | Name  | O AN 1/60  |
|             |                |             | Free-form name  |            |
|             |                |             | GLN If available for RX Products. Not used for Non-RX |            |

**Segment:** N3 Address Information - ITEM LEVEL  
**Position:** 240  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**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**

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

**Segment:** **N4 Geographic Location - ITEM LEVEL**  
**Position:** 250  
**Loop:** HL Mandatory  
**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:** The following N1 loops are used for conveying Transaction History (TH) for DSCSA.  
 Example: N4\*WOONSOCKET\*RI\*02895~

#### Data Element Summary

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

**Segment:** **REF** Reference Identification - ITEM LEVEL  
**Position:** 260  
**Loop:** HL Mandatory  
**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:** 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                 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>KK Delivery Reference<br>Refer to 004010 Data Element Dictionary for acceptable code values. | M ID 2/3          |
|   | REF02            | 127                 | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Delivery Reference Date | X AN 1/30         |
|   | REF03            | 352                 | <b>Description</b><br>A free-form description to clarify the related data elements and their content<br>Advance Ship Notice Reference Number  | X AN 1/80         |

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

**Position:** 335

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Mandatory

**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

|   | <u>Ref.</u> | <u>Data</u>   | <u>Attributes</u> |
|---|-------------|---|-------------------|
|   | <u>Des.</u> | <u>Element</u> <u>Name</u>  |                   |
| M | YNQ01       | 1321 <b>Condition Indicator</b>   | M ID 2/2          |
|   |             | Code indicating a condition   |                   |
|   |             | CX Certification Status   |                   |
|   |             | Refer to 004010 Data Element Dictionary for acceptable code values.   |                   |
| M | YNQ02       | 1073 <b>Yes/No Condition or Response Code</b>   | 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.   |                   |
| M | YNQ08       | 1270 <b>Code List Qualifier Code</b>  | M ID 1/3          |
|   |             | Code identifying a specific industry code list  |                   |
|   |             | 99 Purpose Code   |                   |
|   |             | Refer to 004010 Data Element Dictionary for acceptable code values.   |                   |
| M | YNQ09       | 1271 <b>Industry Code</b>   | M 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         | <b>Number of Line Items</b>   | M N0 1/6   |
|             |                |             | Total number of line items in the transaction set   |            |
|             | CTT02          | 347         | <b>Hash Total</b>   | 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          | <b>Weight</b>   | X R 1/10   |
|             |                |             | Numeric value of weight   |            |
|             | CTT04          | 355         | <b>Unit or Basis for Measurement Code</b>   | 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         | <b>Volume</b>   | X R 1/8    |
|             |                |             | Value of volumetric measure   |            |
|             | CTT06          | 355         | <b>Unit or Basis for Measurement Code</b>   | 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         | <b>Description</b>  | 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             | <b>Number of Included Segments</b>  | M N0 1/10         |
|   |             |                | Total number of segments included in a transaction set including ST and SE segments   |                   |
| M | SE02        | 329            | <b>Transaction Set Control Number</b>   | 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 |                   |