# 856 Ship Notice/Manifest

# Functional Group ID= $\mathbf{SH}$

### **Introduction:**

This Implementation Guide contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

# **Heading:**

	Pos. No.	Seg. <u>ID</u>	<u>Name</u>	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	0100	ST	Transaction Set Header	M	1		
M	0200	BSN	Beginning Segment for Ship Notice	M	1		

#### **Detail:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	Name LOOP ID – HL (SHIPMENT DETAILS)	Req. <u>Des.</u>	<u>Max.Use</u>	Loop Repeat 200000	Notes and Comments
M	0100	HL	Hierarchical Level	M	1		c1
Must Use	1100	TD1	Carrier Details (Quantity and Weight)	О	20		
Must Use	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	О	12		
			LOOP ID - TD3			12	
Must Use	1300	TD3	Carrier Details (Equipment)	O	1		
Must Use	1500	REF	Reference Identification	О	>1		
Must Use	2000	DTM	Date/Time Reference	O	10		
Must Use	2100	FOB	F.O.B. Related Instructions	O	1		
			LOOP ID - N1			200	
Must Use	2200	N1	Name	О	1		
	2400	N3	Address Information	O	2		
Must Use	2500	N4	Geographic Location	O	1		
			LOOP ID – HL (ORDER DETAILS)			200000	
M	0100	HL	Hierarchical Level	M	1		
Must Use	0500	PRF	Purchase Order Reference	O	1		
Must Use	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
Must Use	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
	1500	REF	Reference Identification	O	>1		
			LOOP ID – HL (TARE DETAILS) - Optional			200000	
M	0100	HL	Hierarchical Level	M	1		
Must Use	1900	MAN	Marks and Numbers	О	>1		

			LOOP ID – HL (ITEM DETAILS)			200000
M	0100	HL	Hierarchical Level	M	1	
Must Use	0200	LIN	Item Identification	O	1	
Must Use	0300	SN1	Item Detail (Shipment)	O	1	
Must Use	0600	PO4	Item Physical Details	O	1	
			LOOP ID – HL (PACK DETAILS)			200000
M	0100	HL	LOOP ID – HL (PACK DETAILS) Hierarchical Level	M	1	200000
M	0100 0600	HL PO4	,	M O	1	200000
M Must Use			Hierarchical Level		1 1 >1	200000

# **Summary:**

	Pos.	Seg.		Req.		Loop	Notes and
	No.	<u>ID</u>	<u>Name</u>	Des.	Max.Use	Repeat	Comments
Must Use	0100	CTT	Transaction Totals	O	1	_	n1
M	0200	SE	Transaction Set Trailer	M	1		

# **Transaction Set Notes**

- **1.** Each Transaction Set Shipment ID (BSN-02) must be unique. Shipments must also be from one Ship-from location to one Ship-to location.
- 2. Do not include Purchas Orders for different locations within the same shipment.
- 3. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

### **Transaction Set Comments**

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

Toys 'R Us - 856 Standard Pack ASN

Segment: ST Transaction Set Header

Position: 0100

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: Comments:

Must Use	Ref. <u>Des.</u> ST-01	Data Element 143		n Set Identifier Code ely identifying a Transaction Set	Att M	<u>ribu</u> 1	<u>tes</u> ID 3/3
			856	Ship Notice/Manifest			
Must Use	ST-02	329	Identifying	n Set Control Number control number that must be unique within the tra group assigned by the originator for a transaction		1 on set	AN 4/9

Segment: BSN Beginning Segment for Ship Notice

Position: 0200

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Semantic Notes:** 1 BSN-03 is the date the shipment transaction set is created.

2 BSN-04 is the time the shipment transaction set is created.

**Comments:** 

				Data Element Summary			
	Ref.	Data					
	Des.	Element	Name		Att	ribu	tes
Must Use	BSN-01	353	Transactio	on Set Purpose Code	M	1	ID 2/2
1.1450 050	2011 01			ifying purpose of transaction set		_	_,_
			00	Original			
Must Use	<b>BSN-02</b>	396	<b>Shipment</b>	Identification	M	1	AN 2/30
			A unique c	ontrol number assigned by the original shipper t	o identify	a sr	ecific
			shipment	8 9 8 11			
Must Use	BSN-03	373	Date		M	1	DT 8/8
Must Osc	<b>D</b> 511-05	373		good of CCVVMMDD where CC represents the		_	
				ssed as CCYYMMDD where CC represents the	mst two	aign	.8 01
			the calenda	ir year		_	
Must Use	<b>BSN-04</b>	337	Time		M	1	TM 4/8
			Time expre	essed in 24-hour clock time as follows: HHMM,	or HHM	MSS	, or
			HHMMSS	D, or HHMMSSDD, where $H = hours (00-23)$ , I	M = minu	ites (	00-
			59), $S = int$	teger seconds (00-59) and $DD = decimal seconds$	s; decima	1 sec	onds
			are express	sed as follows: $D = tenths (0-9)$ and $DD = hundred$	edths (00-	-99)	
Must Use	BSN-05	1005		cal Structure Code	O.	1	ID 4/4
1.1450 050	221, 00	2002		ating the hierarchical application structure of a t	ransaction	n set	
				HL segment to define the structure of the transa		11 500	tilut
				<u> </u>			
				95 must be sent and must include the value '0002	•		
			0002	Shipment, Order, Item, Packaging			
				(Standard Pack)			

Segment: HL Hierarchical Level - SHIPMENT DETAILS

Position: 0100

**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

#### **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 HL-01 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 HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

**Notes:** This hierarchical level must be sent, and it should contain Shipment details.

	Ref. Des.	Data Element	Name	Attı	ributes
<b>Must Use</b>	$\overline{\text{HL-0}}$ 1	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a pain a hierarchical structure	articular data	segment
	HL-02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical da segment being described is subordinate to	ta segment th	at the data
Must Use	HL-03	735	Hierarchical Level Code	$\mathbf{M}$	1 ID 1/2
			Code defining the characteristic of a level in a hierarchi	cal structure	
			S Shipment		

TD1 Carrier Details (Quantity and Weight) **Segment:** 

**Position:** 

HLLoop: Mandatory

Level: Detail

Optional (Must Use) Usage:

Max Use: 20

**Purpose:** To specify the transportation details relative to commodity, weight, and quantity If TD1-01 is present, then TD1-02 is required.

**Syntax Notes:** 

- If TD1-03 is present, then TD1-04 is required. 3 If TD1-06 is present, then TD1-07 is required.
- 4 If either TD1-07 or TD1-08 is present, then the other is required. If either TD1-09 or TD1-10 is present, then the other is required.

**Semantic Notes: Comments:** 

> This segment must be sent. Multiple shipment-level TD1 segments should NOT be sent. **Notes:**

> > If the Shipment Payment Method is Collect (FOB-01 = "CC"), then the shipment-level TD1-06, -07, -08, -09, and -10 must be sent.

			Data	a Element Summary			
	Ref.	Data				. 4-	
Must Has	<u>Des.</u>	Element	Name Packaging Cos	I.	Atı O	tribu 1	<u>tes</u> AN 3/5
Must Use	TD1-01	103	Packaging Code	ie the type of packaging; Part 1: Packaging F	~		AN 3/3
				erial; if the Data Element is used, then Part 1			auired
			The TD1-01 mu				
			CTN	Carton			
			25	Corrugated or Solid			
Must Use	TD1-02	80	Lading Quanti		X	1	N0 1/7
			Number of unit	s (pieces) of the lading commodity			
			Total number of	f cartons in shipment. The TD1-02 must be	sent.		
	TD1-06	187	Weight Qualif	ier	O	1	ID 1/2
			Code defining t	he type of weight			
			The TD1-06 mu	ust be sent for Collect shipments.			
			G	Gross Weight			
	TD1-07	81	Weight		$\mathbf{X}$	1	R 1/10
			Numeric value	of weight			
			Total shipment	gross weight. The TD1-07 must be sent for	Collect	shipı	ments.
	TD1-08	355	Unit or Basis f	or Measurement Code	X	1	ID 2/2
				g the units in which a value is being expresse	ed, or ma	annei	in
				rement has been taken			
				ust be sent for Collect shipments.			
	TTD 4 00	402	LB	Pound			D 4/0
	TD1-09	183	Volume		X	1	R 1/8
			Value of volum				
			Total shipment	cubic feet. The TD1-09 must be sent for Co	llect shi	pmei	nts.
			NOTE: The su	um of the individual carton volumes (PO4-08	3's) coul	d be i	less
				nipment volume when accounting for pallets.			
	TD1-10	355	Unit or Basis f	or Measurement Code	X	1	ID 2/2
				g the units in which a value is being expresse	ed, or ma	annei	in
				rement has been taken			
				ust be sent for Collect shipments.			
			CF	Cubic Feet			

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 1200

**Loop:** HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 12

Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: 1 At least one of TD5-02, TD5-04, TD5-05, TD5-06 or TD5-12 is required.

2 If TD502 is present, then TD503 is required.

**Comments:** 1 When specifying a routing sequence to be used for the shipment movement in lieu of

specifying each carrier within the movement, use TD5-02 to identify the party responsible for defining the routing sequence, and use TD5-03 to identify the actual routing sequence,

specified by the party identified in TD5-02.

Notes: This segment must be sent. Multiple shipment-level TD5 segments should NOT be sent.

			Data Element Summary		
	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>
Must Use	<b>TD5-02</b>	66	Identification Code Qualifier	$\mathbf{X}$	1 ID 1/2
			Code designating the system/method of code structure used for	r Iden	tification
			Code (67)		
			The TD5-02 must be sent.		
			2 Standard Carrier Alpha Code (SCAC)		
Must Use	TD5-03	67	<b>Identification Code</b>	X	1 AN 2/80
			Code identifying a party or other code		
			Carrier's SCAC. The TD5-03 must be sent.		

 $\textbf{Segment:} \quad \textbf{TD3} \; \text{Carrier Details (Equipment)}$ 

Position: 1300

**Loop:** TD3 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Syntax Notes:** 1 Only one of TD3-01 or TD3-10 may be present.

If TD3-02 is present, then TD3-03 is required.

**Comments:** 

**Notes:** This segment must be sent.

Must Use	Ref. <u>Des.</u> TD3-01	Data Element 40	Equipment Description Code Code identifying type of equipment used for shipment	Attrib	<u>utes</u> 1 ID 2/2
Must Use	TD3-02	206	The TD3-01 must be sent.  TL Trailer (not otherwise specified)  Equipment Initial O  Prefix or alphabetic part of an equipment unit's identifying numb	_	1 AN 1/4
Must Use	TD3-03	207	The TD3-02 must be sent.  Equipment Number  Sequencing or serial part of an equipment unit's identifying num numeric form for equipment number is preferred)  The TD3-03 must be sent.	-	1 AN 1/10 are

Segment: REF Reference Identification

Position: 1500

Loop: HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF-02 or REF-03 is required.

**Comments:** 

Notes: TRU-assigned Routing Number is required for collect shipments only. (when FOB-01 =

"CC")

Additionally, separate REF segments must be sent for Bill of Lading Number and for

PRO Number for all shipments. Only 1 of each number should be sent.

Do NOT send multiple Bill of Lading, PRO or Routing Numbers.

**Data Element Summary** 

Ref. Data

Des. Element Name Attributes

Must Use REF-01 128 Reference Identification Qualifier M 1 ID 2/3

Code qualifying the Reference Identification

For the Bill of Lading Number, either qualifier ("BL" or "BM") will be

acceptable. Do NOT use both.

BL or BM Government Bill of Lading or Bill of Lading Number

CN Carrier's Reference Number (PRO/Invoice)

RU Route Number

Must Use REF-02 127 Reference Identification X 1 AN 1/50

Reference information as defined for a particular Transaction Set or as

specified by the Reference Identification Qualifier The REF-02 must be sent for each REF segment.

DTM Date/Time Reference **Segment:** 

**Position:** 

HLLoop: Mandatory

Level: Detail

Optional (Must Use) **Usage:** 

Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** At least one of DTM-02, DTM-03 or DTM-05 is required.

**Comments:** 

Ref.

**Notes:** Two separate DTM segments must be sent: one for the Ship Date and one for the

Delivery Date.

Data

**Data Element Summary** 

**Element Name Attributes** Des. M **Date/Time Qualifier** 1 ID 3/3 **DTM-01** 374 M Code specifying type of date or time, or both date and time

The DTM-01 must be sent. Shipped 011

067 Current Schedule Delivery

**Must Use DTM-02** 373 **Date** X 1 DT 8/8

Date expressed as CCYYMMDD where CC represents the first two digits of

the calendar year

The DTM-02 must be sent.

Segment: FOB F.O.B. Related Instructions

Position: 2100

**Loop:** HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify transportation instructions relating to shipment

**Comments:** 

M

**Notes:** This segment must be sent.

**Data Element Summary** 

Ref. Data

Des.ElementNameAttributesFOB-01146Shipment Method of PaymentM1 ID 2/2

Code identifying payment terms for transportation charges

The FOB-01 must be sent.

CC Collect

PP Prepaid (by Seller)

Segment: N1 Name

Position: 2200

**Loop:** N1 Optional (Must Use)

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N1-02 or N1-03 is required.

2 If either N1-03 or N1-04 is present, then the other is required.

**Comments:** 

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N1-04) must provide a key to the table maintained by the transaction processing party.

**Notes:** Two separate N1 loops must be sent: one for the Ship-from location and one for the

Ship-to location.

		Data Ele	ement Summary				
Ref.	Data						
Des.	<b>Element</b>	<u>Name</u>		Attr	bu	<u>tes</u>	
$\overline{N1-01}$	98	<b>Entity Identifier C</b>	ode	M	1	ID 2/3	
		Code identifying an organizational entity, a physical location, property or an					
		individual					
		The N1-01 must be	sent.				
		SF	Ship From				
		ST	Ship To				
N1-02	93	Name		$\mathbf{X}$	1	AN 1/60	
		Free-form name					
		The N1-02 must be	sent.				
		When for the Ship-	from location, this will be a free-form nam	ie.			
		W/l	and the should be the TDII leasting				
N11 02						ID 1/0	
N1-03	66				_	ID 1/2	
		0 0	ie system/method of code structure used for	or Identi	nca	ttion	
			cent				
				Cl			
		9		ir Chara	ctei		
N1_04	67	Identification Cod		v	1	AN 2/80	
111-04	07			Λ	1	AIN 2/00	
			•				
		The N1-04 must be	sent.				
		When for the Ship-	from location, this should be the D-U-N-S	Numbe	r		
		_					
		•					
		When for the Ship-t	to location, this must be the TRU D-U-N-S	S Numb	er		
		followed by the 4-d	igit TRU location number.				
	<u>Des.</u> N1-01	Des. N1-01         Element 98           N1-02         93           N1-03         66	Ref. Data Des. Element N1-01  98  Entity Identifier Code identifying an individual The N1-01 must be SF ST  N1-02  93  Name Free-form name The N1-02 must be When for the Ship-followed by 4-chara When for the Ship-followed by 4-chara When for the Ship-followed by 4-chara	Ref. Des. Element N1-01  98  Entity Identifier Code Code identifying an organizational entity, a physical location, individual The N1-01 must be sent.  SF Ship From ST Ship To  N1-02  93  Name Free-form name The N1-02 must be sent.  When for the Ship-from location, this will be a free-form nam When for the Ship-to location, this should be the TRU location Identification Code Qualifier Code designating the system/method of code structure used for Code (67) The N1-03 must be sent.  9  D-U-N-S+4, D-U-N-S Number with For Suffix  N1-04  67  Identification Code Code identifying a party or other code The N1-04 must be sent.  When for the Ship-from location, this should be the D-U-N-S followed by 4-character suffix.	Ref. Des. Plate Element N1-01  98 Entity Identifier Code Code identifying an organizational entity, a physical location, propert individual The N1-01 must be sent.  SF Ship From ST Ship To  N1-02  93 Name X X  Free-form name The N1-02 must be sent.  When for the Ship-from location, this will be a free-form name.  When for the Ship-to location, this should be the TRU location number N1-03  66 Identification Code Qualifier X Code designating the system/method of code structure used for Identification Code (67)  The N1-03 must be sent.  9 D-U-N-S+4, D-U-N-S Number with Four Chara Suffix  N1-04  67 Identification Code X X  Code identifying a party or other code The N1-04 must be sent.  When for the Ship-from location, this should be the D-U-N-S Number followed by 4-character suffix.	N1-01   P8   Element   Name   Code   N1   1   1   1   1   1   1   1   1	

# Toys 'R Us - 856 Standard Pack ASN

Segment: N3 Address Information

Position: 2400

**Loop:** N1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 2

**Purpose:** To specify the location of the named party

**Comments:** 

Notes: Only one N3 segment should be sent per N1 segment. Do NOT send multiple N3

segments per N1.

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
Must Use	N3-01	166	Address Information Address information	M 1 AN 1/55
	N3-02	166	Address Information Address information	O 1 AN 1/55

Segment: N4 Geographic Location

Position: 2500

**Loop:** N1 Optional (Must Use)

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify the geographic place of the named partySyntax Notes: 1 Only one of N4-02 or N4-07 may be present.

Comments: 1 A combination of either N4-01 through N4-04, or N4-05 and N4-06 may be adequate to

specify a location.

2 N4-02 is required only if city name (N4-01) is in the U.S. or Canada.

Notes: An N4 segment must be sent with both the Ship-from N1 segment and the Ship-to N1

segment.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	<u>Att</u>	<u>ributes</u>
Must Use	N4-01	19	City Name	O	1 AN 2/30
			Free-form text for city name		
Must Use	N4-02	156	State or Province Code	X	1 ID 2/2
			Code (Standard State/Province) as defined by appropriate government	vernme	nt agency
Must Use	N4-03	116	Postal Code	O	1 ID 3/15
			Code defining international postal zone code excluding punct (zip code for United States)	uation	and blanks

Segment: HL Hierarchical Level - ORDER DETAILS

Position: 0100

**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

#### **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 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

**Notes:** This hierarchical level must be sent, and it should contain Order details.

	Ref.	Data	·		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attr</u>	<u>ibutes</u>
Must Use	<b>HL-01</b>	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a particular in a hierarchical structure	ır data s	segment
	HL-02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical data segn segment being described is subordinate to	nent tha	at the data
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical stru	ıcture	
			O Order		

Segment: PRF Purchase Order Reference

Position: 0500

**Loop:** HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To provide reference to a specific purchase order

**Comments:** 

**Notes:** This segment must be sent.

**Data Element Summary** 

Ref. Data **Attributes** Des. **Element Name Must Use** PRF01 324 **Purchase Order Number** M 1 AN 1/22 Identifying number for Purchase Order assigned by the orderer/purchaser The PRF-01 must be sent. This should be the PO Number as sent in the BEG-03 of the Purchase Order. **Must Use** PRF04 373  $\mathbf{o}$ 1 DT 8/8 Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Purchase Order date. The PRF-04 must be sent.

This should be the PO Date as sent in the BEG-05 of the Purchase Order.

Segment: TD1 Carrier Details (Quantity and Weight)

Position: 1100

**Loop:** HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 20

**Purpose:** To specify the transportation details relative to commodity, weight, and quantity

**Syntax Notes:** 1 If TD1-01 is present, then TD1-02 is required.

**Comments:** 

Notes: This segment must be sent. Multiple order-level TD1 segments should NOT be sent for

an order.

**Data Element Summary** 

Ref. Data **Element Name Attributes** Des. **Must Use Packaging Code TD1-01** 1 AN 3/5 103 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 The TD1-01 must be sent. **CTN** Carton 25 Corrugated or Solid **Must Use TD1-02** 80 X 1 N0 1/7 **Lading Quantity** 

Number of units (pieces) of the lading commodity

Number of cartons for this order. The TD1-02 must be sent.

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 1200

**Loop:** HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 12

Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: 1 At least one of TD5-02, TD5-04, TD5-05, TD5-06 or TD5-12 is required.

2 If TD5-02 is present, then TD5-03 is required.

**Comments:** 

1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD5-02 to identify the party responsible for defining the routing sequence, and use TD5-03 to identify the actual routing sequence, specified by the party identified in TD5-02.

Notes: This segment must be sent. Multiple order-level TD5 segments should NOT be sent for

an order.

			Data Ele	ement Summary			
	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>		<u>Attri</u>	<u>ibutes</u>	
Must Use	TD5-06	368	Shipment/Order S	tatus Code	$\mathbf{X}$	1 ID 2/2	
			Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction  The TD5-06 must be sent.				
			BP	Shipment Partial, Back Order to Ship or	n (Date)		
			CC	Shipment Complete on (Date)			
			CP	Partial Shipment on (Date), Considered	No Back	order	

#### Toys 'R Us - 856 Standard Pack ASN

**Segment:** Reference Identification

Position: 1500

**Loop:** HL Mandatory

Level: Detail
Usage: Optional
Max Use: >1

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF-02 or REF-03 is required.

**Comments:** 

Notes: Only 1 REF segment containing the Invoice Number should be sent. Do NOT send

multiple Invoice Numbers in multiple REF segments for an order.

**Data Element Summary** 

Ref. Data Des. **Attributes** Element Name REF-01 128 **Reference Identification Qualifier**  $1 \quad ID \ 2/3$ Code qualifying the Reference Identification Seller's Invoice Number **REF-02** 127  $\mathbf{X}$ 1 AN 1/50 **Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Your Invoice Number.

Segment: HL Hierarchical Level - TARE DETAILS

**Position:** 0100

Loop: HL Optional

Level: Detail
Usage: Mandatory

Max Use: 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups of data

segments

#### **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 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

#### **Notes:**

The tare-level loop is used to convey pallet information and is optional. If sent, this loop should contain an HL segment and one MAN segment.

One tare-level HL segment should be sent per pallet.

	Ref.	Data	·		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attr</u>	<u>ributes</u>
Must Use	<b>HL-01</b>	628	Hierarchical ID Number	M	1 AN 1/12
			A unique number assigned by the sender to identify a particular in a hierarchical structure	ar data	segment
	HL-02	734	Hierarchical Parent ID Number	O	1 AN 1/12
			Identification number of the next higher hierarchical data seg segment being described is subordinate to	ment th	at the data
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical str	ructure	
			T Shipping Tare		

**Segment:** MAN Marks and Numbers

Position: 1900

Loop: HL Optional

Level: Detail

**Usage:** Mandatory (Must Use if sending Tare data)

Max Use: >1

**Purpose:** To indicate identifying marks and numbers for shipping containers

Comments: 1 When MAN-01 contains code "UC" (U.P.C. Shipping Container Code) and MAN-

05/MAN-06 contain a range of ID numbers, MAN-03 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 MAN-05/MAN-06.

Notes: If sending Tare (pallet) details, this segment must be sent. Only 1 MAN segment should

be sent per tare-level HL segment.

# **Data Element Summary**

				Data Element Summary			
	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>		<u>Att</u>	<u>ribu</u>	<u>tes</u>
Must Use	MAN01	88	Marks ar	nd Numbers Qualifier	M	1	ID 1/2
			Code spec	cifying the application or source of Marks and Nu	imbers (8	7)	
			If sending	Tare details, the MAN-01 must be sent.			
			W	Pallet Number			
Must Use	MAN02	87	Marks ar	nd Numbers	$\mathbf{M}$	1	AN 1/48
			Marks and	d numbers used to identify a shipment or parts of	a shipme	nt	
			A number	LIMIOUEL V identifying each nallet If sending	Tara data	ile t	ha

A number UNIQUELY identifying each pallet. If sending Tare details, the MAN-02 must be sent.

Segment: HL Hierarchical Level - ITEM DETAILS

Position: 0100

**Loop:** HL Mandatory

Level: Detail
Usage: Mandatory

Max Use: 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups of data

segment.

#### **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 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

**Notes:** This hierarchical level must be sent, and it should contain Item details.

			2 4 4 4 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Ref.	Data		
	Des.	<b>Element</b>	Name At	<u>tributes</u>
Must Use	HL-01	628	Hierarchical ID Number M	1 AN 1/12
			A unique number assigned by the sender to identify a particular dat	a segment
			in a hierarchical structure	
	HL-02	734	Hierarchical Parent ID Number O	1 AN 1/12
			Identification number of the next higher hierarchical data segment	hat the data
			segment being described is subordinate to	
Must Use	HL-03	735	Hierarchical Level Code M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical structure	3
			I Item	

LIN Item Identification **Segment:** 

**Position:** 

HLLoop: Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use:

**Purpose:** To specify basic item identification data

**Syntax Notes:** If either LIN-04 or LIN-05 is present, then the other is required.

**Comments:** 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:** This segment must be sent and it must contain both a valid TRU SKN and a valid

UPC/EAN number.

	Ref.	Data		,		_	
	Des.	<b>Element</b>	<u>Name</u>		Attr		
Must Use	LIN-02	235	Product/Service ID		M	1	ID 2/2
			Code identifying the Product/Service ID	e type/source of the descriptive number use (234)	ed in		
			The LIN-02 must be qualifier.	e sent. It should contain either the "EN" or	r the "U	P"	
			EN	EAN/UCC - 13			
				Data structure for the 13 digit EAN.UCC	(EAN		
				International.Uniform Code Council) Glo Identification Number (GTIN)	obal Tra	ıde	
			UP	UCC - 12			
				Data structure for the 12 digit EAN.UCC	(EAN		
				International. Uniform Code Council) Glo			
				Identification Number (GTIN). Also know	own as t	he	
Must Use	LIN-03	234	Product/Service ID	Universal Product Code (U.P.C.)	M	1	AN 1/48
Must Ose	LIIV-03	254		for a product or service	IVI	1	AIN 1/40
				e sent and it should contain either the EAN	I/UCC-1	13 c	or
				h Check Digit. (1-5-5-1)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<b>,</b>
			If sending the UPC	this should be the value that was sent with	n the "U	P"	
				PO1 segment of the Purchase Order.	i tile e		
<b>Must Use</b>	<b>LIN-04</b>	235	Product/Service ID		X	1	ID 2/2
				e type/source of the descriptive number use	ed in		
			Product/Service ID				
				e sent and it should contain the "IT" qualif	ier.		
			IT	Buyer's Style Number			
Must Use	LIN-05	234	Product/Service ID		X	1	AN 1/48
				for a product or service			
			The LIN-05 must be	e sent and it should contain the TRU SKN.			
				alue that was sent with the "IT" qualifier v	within th	ne F	PO1
			segment of the Purch	hase Order.			

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Segment: SN1 Item Detail

**Position:** 0300

Loop: HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: 1

**Purpose:** To specify line-item detail relative to shipment

**Comments:** 1 SN1-03 defines the unit of measurement for both SN1-02 and SN1-04.

**Notes:** This segment must be sent.

Must Use	Ref. Des. SN1-02	Data Element 382	Name Number of Units Shipped Numeric value of units shipped in manufacturer's shipping ur or transaction set	M	ributes 1 R 1/10 a line item
			Total pieces for this item. The SN1-02 must be sent.		
Must Use	SN1-03	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed which a measurement has been taken The SN1-03 must be sent.  EA Each	<b>M</b> l, or mai	1 ID 2/2 nner in

PO4 Item Physical Details **Segment: Position:** 0600 HLLoop: Mandatory Level: Detail Usage: Optional Max Use: **Purpose:** To specify the physical qualities, packaging, weights, and dimensions relating to the item **Syntax Notes:** If either PO4-02 or PO4-03 is present, then the other is required. If PO4-05 is present, then PO4-06 is required. 3 If either PO4-06 or PO4-07 is present, then the other is required. 4 If either PO4-08 or PO4-09 is present, then the other is required. 5 If either PO4-10, PO4-11 or PO4-12 is present, then PO413 is required. If PO4-13 is present, then at least one of PO4-10, PO4-11 or PO4-12 is required. If PO4-17 is present, then PO4-16 is required. PO4-13 defines the unit of measure for PO4-10, PO4-11 and PO4-12. **Comments:** Notes: This segment must be sent. **Data Element Summary** Ref. Data **Attributes** Des. Element Name **Must Use** PO4-01 1 N0 1/6 356 Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container The PO4-01 must be sent. This should be the value from the PO4-01 in the Purchase Order. 103 **Must Use** PO4-04 **Packaging Code** 1 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 The PO4-04 must be sent. **CTN** Carton 25 Corrugated or Solid PO4-05 187 Weight Qualifier 0 1 ID 1/2 Code defining the type of weight G Gross Weight Must Use PO4-06 384 **Gross Weight per Pack** X 1 R 1/9 Numeric value of gross weight per pack The PO4-06 must be sent. X Must Use PO4-07 355 **Unit or Basis for Measurement Code** 1 ID 2/2 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken The PO4-07 must be sent. LB Pound **Gross Volume per Pack** Must Use PO4-08 385 X 1 R 1/9 Numeric value of gross volume per pack The PO4-08 must be sent. 355 **Unit or Basis for Measurement Code** X 1 ID 2/2 **Must Use** PO4-09 Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Cubic Feet

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

X

1 R 1/8

The PO4-09 must be sent.

CF

Length

82

PO4-10

PO4-11	189	Width	X	1	R 1/8		
		Shorter measurement of the two horizontal dimensions meas object in the upright position	ured wi	th th	e		
PO4-12	65	Height	$\mathbf{X}$	1	R 1/8		
		Vertical dimension of an object measured when the object is position	in the ı	ıprig	ht		
PO4-13	355	Unit or Basis for Measurement Code	X	1	ID 2/2		
		Code specifying the units in which a value is being expressed which a measurement has been taken	d, or ma	anner	in		
PO4-14	810	Inner Pack	O	1	N0 1/6		
		The number of eaches per inner container					
		If inner packs are being sent, this is the number of selling un the inner packs.	its with	in on	e of		
		This should be the value from the PO4-14 in the Purchase O	rder.				
PO4-18	1470	Number	O	1	N0 1/9		
		A generic number					
		Total number of cartons for this item.					

Segment: HL Hierarchical Level - PACK DETAILS

Position: 0100

**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 HL-01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL-01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL-01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL-02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL-03 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, HL-03 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.

Notes: This hierarchical level must be sent, and it should contain Pack (carton) details.

	Ref.	Data	·		
	Des.	<b>Element</b>	<u>Name</u>	Attri	<u>ibutes</u>
Must Use	HL-01	628	Hierarchical ID Number	<b>N</b>	1 AN 1/12
			A unique number assigned by the sender to identify a particular	data s	segment
			in a hierarchical structure		
	HL-02	734	Hierarchical Parent ID Number	$\mathbf{c}$	1 AN 1/12
			Identification number of the next higher hierarchical data segment being described is subordinate to	ent tha	t the data
Must Use	HL-03	735	Hierarchical Level Code	M	1 ID 1/2
			Code defining the characteristic of a level in a hierarchical struc	cture	
			P Pack		

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Segment: PO4 Item Physical Details

**Position:** 0600

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 1

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

### **Comments:**

# **Data Element Summary**

Ref.	Data			
Des.	<b>Element</b>	<b>Name</b>	<u>A</u> 1	<u>tributes</u>
PO4-01	356	Pack	0	1 NO 1/6

The number of inner containers, or number of eaches if there are no inner containers, per outer container

Segment: MAN Marks and Numbers

Position: 1900

Loop: HL Mandatory

Level: Detail

**Usage:** Optional (Must Use)

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN-04 or MAN-05 is present, then the other is required.

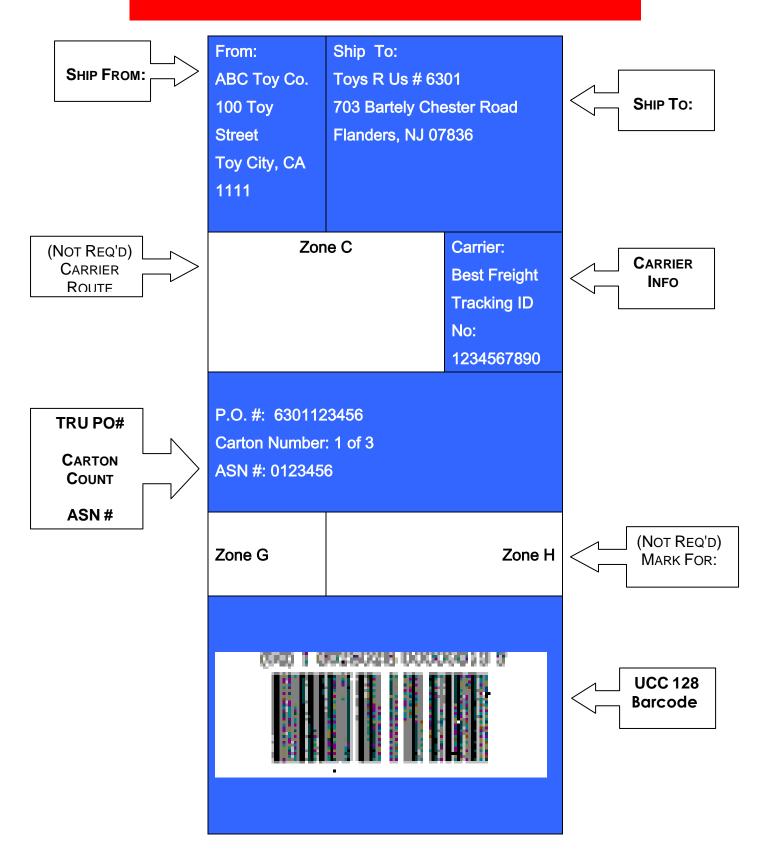
**Comments:** 

Notes: This segment must be sent. Only 1 MAN segment should be sent per pack-level HL

segment.

	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<b>Attributes</b>
Must Use	MAN-01	88	Marks and Numbers Qualifier	M 1 ID 1/2
			Code specifying the application or source of Marks and Nur	nbers (87)
			The MAN-01 must be sent.	
			CP Carrier-Assigned Package ID Number	
Must Use	MAN-02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a	M 1 AN 1/48 shipment
			Carrier-assigned code. Must be unique number for each car must be sent.	ton. The MAN-02
Must Use	MAN-04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Nur	X 1 ID 1/2 mbers (87)
			The MAN-04 must be sent. Either qualifier ("GM" or "SM' acceptable. Do NOT send both.	) will be
			GM or SM SSCC-18 & Application Identifier or	Shipper Assigned
Must Use	MAN-05	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a	X 1 AN 1/48 shipment
			Shipper-assigned code. Must be unique number for each camust be sent.	rton. The MAN-05

# **UCC-128 SHIPPING CONTAINER LABEL FORMAT**



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Segment: DTM Date/Time Reference

**Position:** 2000

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM-02, DTM-03 or DTM-05 is required.

### **Comments:**

Must Use	Ref. <u>Des.</u> DTM-01	Data Element 374	Name Date/Time Qualifier Code specifying type of date or time, or both date and time			ribu 1	tes ID 3/3
			036	Expiration - Date coverage expires			
Must Use	DTM-02	373	Date Date expr	ressed as CCYYMMDD where CC represents the findar year	X rst two	<b>1</b> digit	<b>DT 8/8</b> as of

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Segment: CTT Transaction Totals

**Position:** 0100

Loop:

Level: Summary

**Usage:** Optional (Must Use)

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

**Comments:** 

Des.

1 This segment is intended to provide hash totals to validate transaction completeness and

correctness.

**Notes:** This segment MUST be sent.

**Data Element Summary** 

Ref. Data

Element Name

354

**Attributes** 

Must Use CTT-01

Number of Line Items

M 1 N0 1/6

Total number of line items in the transaction set

The CTT-01 should contain the total number of hierarchical levels (HL

segments) within the transaction set.

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Segment: **SE** Transaction Set Trailer

Position: 0200

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)

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

	Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	<u>Attributes</u>		
Must Use	SE-01	96	Number of Included Segments	M	1	N0 1/10
			Total number of segments included in a transaction set include segments	ling ST a	and	SE
Must Use	<b>SE-02</b>	329	Transaction Set Control Number	$\mathbf{M}$	1	AN 4/9
			Identifying control number that must be unique within the tra functional group assigned by the originator for a transaction		ı set	

ISA\*00\* \*00\* \*ZZ\*YOUR-ID-HERE \*12\*6063711145 \*070910\*0917\*U\*00200\*000003549\*0\*P\*> GS\*SH\*YOUR-ID-HERE\*6063711145\*20070910\*0917\*3549\*X\*004030 ST\*856\*0001 BSN\*00\*379913565\*20070910\*0916\*0002

DSN 00 379913303 20070910 0910 0002

HL\*1\*\*S

TD1\*CTN25\*6\*\*\*\*G\*96.04\*LB\*12.908\*CF

TD5\*\*2\*SCAC

TD3\*TL\*SCAC\*53285725

REF\*BM\*00454860310576360

REF\*CN\*8913448

REF\*RU\* DST123456790

DTM\*011\*20071109

DTM\*067\*20071112

FOB\*CC

N1\*SF\*YOUR COMPANY\*9\*123456789

N4\*SANTA FE SPRING\*CA\*90670

N1\*ST\*6301\*9\*0643364726301

N3\*703 BARTLEY CHESTER RD

N4\*FLANDERS\*NJ\*07836

HL\*2\*1\*O

PRF\*6301693412\*\*\*20071021

TD1\*CTN25\*6

TD5\*\*\*\*\*CC

REF\*IV\*3033029792

HL\*3\*2\*I

LIN\*\*UP\*076930423678\*IT\*023149

SN1\*\*16\*EA

PO4\*4\*\*\*CTN25\*G\*16.7\*LB\*2.059\*CF

HL\*4\*3\*P

MAN\*SM\*00000389760479369701

HL\*5\*3\*P

MAN\*SM\*00000389760479369702

HL\*6\*3\*P

MAN\*SM\*00000389760479369703

HL\*7\*3\*P

MAN\*SM\*00000389760479369704

HL\*8\*2\*I

LIN\*\*UP\*032244027923\*IT\*122712

SN1\*\*8\*EA

PO4\*4\*\*\*CTN25\*G\*14.62\*LB\*2.336\*CF

HL\*9\*8\*P

MAN\*SM\*00000389760479369821

HL\*10\*8\*P

MAN\*SM\*00000389760479369822

CTT\*10

SE\*44\*0001

GE\*1\*3549

IEA\*1\*000003549