



# SHERWIN-WILLIAMS

## 810 Invoice

Functional Group ID=**IN**

**Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

**Notes:**

For any references to unit cost and unit quantity, the following is true:

- 1) All unit cost fields need to be populated with 4 decimal positions.
- 2) All unit quantity fields need to be populated with 2 decimal positions.
- 3) Any fields that contain extended amounts (results of quantity x cost) are expressed with 2 decimal positions.

**Heading:**

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
4	020	BIG	Beginning Segment for Invoice	M	1		
5	030	NTE	Note/Special Instruction	O	10		
6	035	NTE	Note/Special Instruction	O	1		
7	040	CUR	Currency	M	1		
8	050	REF	Reference Identification	O	1		
9	052	REF	Reference Identification	O	1		
10	053	REF	Reference Identification	M	1		
11	060	PER	Administrative Communications Contact	M	1		
LOOP ID - N1						1	
12	70	N1	Name	M	1		
13	80	N2	Additional Name Information	O	1		
14	90	N3	Address Information	O	1		
15	100	N4	Geographic Location	O	1		
16	120	PER	Administrative Communications Contact	O	1		
LOOP ID - N1						1	
17	121	N1	Name	M	1		
18	122	N2	Additional Name Information	O	1		
19	123	N3	Address Information	M	1		
20	124	N4	Geographic Location	M	1		
21	125	PER	Administrative Communications Contact	O	1		

			LOOP ID - N1		1	
22	126	N1	Name	M	1	
23	127	N2	Additional Name Information	O	1	
24	128	N3	Address Information	M	1	
25	129	N4	Geographic Location	M	1	
26	130	PER	Administrative Communications Contact	M	1	
27	135	ITD	Terms of Sale/Deferred Terms of Sale	O	1	
28	140	DTM	Date/Time Reference	M	1	
29	150	FOB	F.O.B. Related Instructions	M	1	

### Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
30	010	IT1	Baseline Item Data (Invoice)	M	1		
32	015	QTY	Quantity	O	1		n1
33	030	IT3	Additional Item Data	M	1		
			LOOP ID - PID			1	
34	060	PID	Product/Item Description	M	1		
35	070	MEA	Measurements	O	1		
36	120	REF	Reference Identification	O	>1		
37	122	REF	Reference Identification	O	1		
			LOOP ID - SAC			1	
38	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
			LOOP ID - SLN			1	
39	200	SLN	Subline Item Detail	O	1		
41	210	REF	Reference Identification	O	>1		
42	220	PID	Product/Item Description	O	1		

### Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
43	010	TDS	Total Monetary Value Summary	M	1		
44	020	TXI	Tax Information	O	3		
45	030	CAD	Carrier Detail	M	1		
			LOOP ID - SAC			5	
46	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
			LOOP ID - ISS			1	
48	060	ISS	Invoice Shipment Summary	M	1		
49	070	CTT	Transaction Totals	M	1		n2
50	080	SE	Transaction Set Trailer	M	1		

### Transaction Set Notes

1. The QTY segment is used to specify a quantity of units which are expected as payments, e.g., trade-ins or returns.
2. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

**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.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
ST01	143		<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set	M ID 3/3
ST02	329		<b>Transaction Set Control Number</b> 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:** **BIG** Beginning Segment for Invoice  
**Position:** 020  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**Syntax Notes:**

- Semantic Notes:**
- 1 BIG01 is the invoice issue date.
  - 2 BIG03 is the date assigned by the purchaser to purchase order.
  - 3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

- Comments:**
- 1 BIG07 is used only to further define the type of invoice when needed.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>BIG01</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD Invoice Date.	<b>M DT 8/8</b>
<b>BIG02</b>	<b>76</b>	<b>Invoice Number</b> Identifying number assigned by issuer	<b>M AN 1/22</b>
<b>BIG03</b>	<b>373</b>	<b>Date</b> Date expressed as CCYYMMDD Original PO Date.	<b>O DT 8/8</b>
<b>BIG04</b>	<b>324</b>	<b>Purchase Order Number</b> Identifying number for Purchase Order assigned by the orderer/purchaser	<b>M AN 1/20</b>
<b>BIG05</b>	<b>328</b>	<b>Release Number</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Enter the Release Number for blanket order releases.	<b>O AN 1/30</b>
<b>BIG07</b>	<b>640</b>	<b>Transaction Type Code</b> Code specifying the type of transaction DI Debit Invoice	<b>O ID 2/2</b>

**Segment:** **NTE** Note/Special Instruction  
**Position:** 030  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 10  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

- 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
NTE01	363	Note Reference Code	M ID 3/3
		Code identifying the functional area or purpose for which the note applies	
		INV Invoice Instruction	
NTE02	352	Description	M AN 1/80
		A free-form description to clarify the related data elements and their content	
		Invoice Sidemark.	

**Segment:** **NTE** Note/Special Instruction  
**Position:** 035  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
NTE01	363	Note Reference Code	M ID 3/3
		Code identifying the functional area or purpose for which the note applies	
		REV Receivables	
NTE02	352	Description	M AN 1/80
		A free-form description to clarify the related data elements and their content	
		Remit message for vendor using a Factor.	

**Segment:** **CUR** Currency

**Position:** 040

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify the currency (dollars, pounds, francs, etc.) used in a transaction

**Syntax Notes:**

- 1 If CUR08 is present, then CUR07 is required.
- 2 If CUR09 is present, then CUR07 is required.
- 3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 4 If CUR11 is present, then CUR10 is required.
- 5 If CUR12 is present, then CUR10 is required.
- 6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 7 If CUR14 is present, then CUR13 is required.
- 8 If CUR15 is present, then CUR13 is required.
- 9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 10 If CUR17 is present, then CUR16 is required.
- 11 If CUR18 is present, then CUR16 is required.
- 12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.
- 13 If CUR20 is present, then CUR19 is required.
- 14 If CUR21 is present, then CUR19 is required.

**Semantic Notes:**

**Comments:** 1 See Figures Appendix for examples detailing the use of the CUR segment.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
CUR01	98	<b>Entity Identifier Code</b>	<b>M ID 2/3</b>
		Code identifying an organizational entity, a physical location, property or an individual	
		BY Buying Party (Purchaser)	
CUR02	100	<b>Currency Code</b>	<b>M ID 3/3</b>
		Code (Standard ISO) for country in whose currency the charges are specified	
		"USD" for US dollars.	
		"CAD" for Canadian dollars.	

**Segment:** **REF** Reference Identification  
**Position:** 050  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**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:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CR Customer Reference Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Vendor Account Number for Sherwin-Williams.	M AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 052  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**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:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification VN Vendor Order Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Vendor's Order Number.	M AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 053  
**Loop:**  
**Level:** Heading  
**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:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification VR Vendor Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier 10-digit Sherwin-Williams Vendor Number.	M AN 1/10

**Segment:** **PER** Administrative Communications Contact  
**Position:** 060  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**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:**

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BB Local Purchasing Agent	M ID 2/2
PER02	93	Name Free-form name Ordered By name.	M AN 1/60

**Segment:** **N1** Name  
**Position:** 127  
**Loop:** N1 Mandatory  
**Level:** Heading  
**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.

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
N101	98	Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		ST Ship To	
N102	93	Name	M AN 1/60
		Free-form name	
		Enter Customer Name.	

**Segment:** N2 Additional Name Information  
**Position:** 128  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
N201	93	Name	M AN 1/60
		Free-form name	
		Distribution Center Name, Store Name, or Customer Name.	

**Segment:** N3 Address Information  
**Position:** 129  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** Ship To Street Address.

**Data Element Summary**

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

**Segment:** **N4 Geographic Location**  
**Position:** 129  
**Loop:** N1 Mandatory  
**Level:** Heading  
**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:** Ship To City, State, Zip Code, and Country Code.

#### Data Element Summary

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

**Segment:** **PER** Administrative Communications Contact

**Position:** 360

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**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:**

#### Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
PER01	366	<b>Contact Function Code</b> Code identifying the major duty or responsibility of the person or group named AA Authorized Representative	M ID 2/2
PER02	93	<b>Name</b> Free-form name	M AN 1/60
PER03	365	<b>Communication Number Qualifier</b> Code identifying the type of communication number TE Telephone	X ID 2/2
PER04	364	<b>Communication Number</b> Complete communications number including country or area code when applicable Telephone Number.	X AN 1/80
PER05	365	<b>Communication Number Qualifier</b> Code identifying the type of communication number FX Facsimile	X ID 2/2
PER06	364	<b>Communication Number</b> Complete communications number including country or area code when applicable Fax Number.	X AN 1/80

**Segment:** **N1** Name  
**Position:** 425  
**Loop:** N1 Mandatory  
**Level:** Heading  
**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.

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual VN Vendor	M ID 2/3
N102	93	Name Free-form name Vendor Name.	M AN 1/60

**Segment:** N2 Additional Name Information  
**Position:** 427  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u> N201	<u>Element</u> 93	<u>Name</u> Name Free-form name	M AN 1/60

**Segment:** N3 Address Information  
**Position:** 428  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

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

**Segment:** **N4 Geographic Location**  
**Position:** 429  
**Loop:** N1 Mandatory  
**Level:** Heading  
**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.

#### Data Element Summary

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

**Segment:** **PER** Administrative Communications Contact

**Position:** 430

**Loop:** N1 Mandatory

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**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:**

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<b>PER01</b>	<b>366</b>	<b>Contact Function Code</b> Code identifying the major duty or responsibility of the person or group named AA Authorized Representative	<b>M ID 2/2</b>
<b>PER02</b>	<b>93</b>	<b>Name</b> Free-form name	<b>M AN 1/60</b>
<b>PER03</b>	<b>365</b>	<b>Communication Number Qualifier</b> Code identifying the type of communication number TE Telephone	<b>X ID 2/2</b>
<b>PER04</b>	<b>364</b>	<b>Communication Number</b> Complete communications number including country or area code when applicable Telephone Number.	<b>X AN 1/80</b>
<b>PER05</b>	<b>365</b>	<b>Communication Number Qualifier</b> Code identifying the type of communication number FX Facsimile	<b>X ID 2/2</b>
<b>PER06</b>	<b>364</b>	<b>Communication Number</b> Complete communications number including country or area code when applicable Fax Number.	<b>X AN 1/80</b>

**Segment:** **N1** Name  
**Position:** 070  
**Loop:** N1 Mandatory  
**Level:** Heading  
**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.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
N101		98	<b>Entity Identifier Code</b> Code identifying an organizational entity, a physical location, property or an individual SN Store/Warehouse	M ID 2/3
N102		93	<b>Name</b> Free-form name Store or warehouse name.	M AN 1/60
N103		66	<b>Identification Code Qualifier</b> Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	M ID 1/2
N104		67	<b>Identification Code</b> Code identifying a party or other code 5-digit Store Number.	M AN 2/80

**Segment:** N2 Additional Name Information  
**Position:** 080  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify additional names or those longer than 35 characters in length  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>		<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
N201	93	Name Free-form name	M AN 1/60

**Segment:** N3 Address Information  
**Position:** 090  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** Store Street Address.

**Data Element Summary**

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

**Segment:** **N4 Geographic Location**  
**Position:** 100  
**Loop:** N1 Mandatory  
**Level:** Heading  
**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:** Store City, State, Zip Code, and Country Code.

**Data Element Summary**

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

**Segment:** **PER** Administrative Communications Contact  
**Position:** 444  
**Loop:** N1 Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**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:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
PER01	366	<b>Contact Function Code</b>		M ID 2/2
			Code identifying the major duty or responsibility of the person or group named AF Authorized Financial Contact	
PER02	93	<b>Name</b>		M AN 1/60
			Free-form name Manager's Name.	
PER03	365	<b>Communication Number Qualifier</b>		X ID 2/2
			Code identifying the type of communication number TE Telephone	
PER04	364	<b>Communication Number</b>		X AN 1/80
			Complete communications number including country or area code when applicable Telephone Number.	
PER05	365	<b>Communication Number Qualifier</b>		X ID 2/2
			Code identifying the type of communication number	
PER06	364	<b>Communication Number</b>		X AN 1/80
			Complete communications number including country or area code when applicable Fax Number.	

**Segment:** **ITD** Terms of Sale/Deferred Terms of Sale  
**Position:** 130  
**Loop:**  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify terms of sale  
**Syntax Notes:** 1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.  
2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.  
3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.  
**Semantic Notes:** 1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.  
**Comments:** 1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
ITD01	336	<b>Terms Type Code</b> Code identifying type of payment terms 14 Previously agreed upon	M ID 2/2
ITD02	333	<b>Terms Basis Date Code</b> Code identifying the beginning of the terms period Code value 3 used for all Store Orders. Code values 1 - 8 used for SWAT Orders. 1 Ship Date 2 Delivery Date 3 Invoice Date 4 Specified Date 5 Invoice Receipt Date 6 Anticipated Delivery Date 7 Effective Date 8 Invoice Transmission Date	M ID 1/2
ITD03	338	<b>Terms Discount Percent</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date Enter percent (Example: "4" for 4%)	O R 1/6
ITD04	370	<b>Terms Discount Due Date</b> Date payment is due if discount is to be earned expressed in format CCYYMMDD	O DT 8/8
ITD05	351	<b>Terms Discount Days Due</b> Number of days in the terms discount period by which payment is due if terms discount is earned	O N0 1/3
ITD07	386	<b>Terms Net Days</b> Number of days until total invoice amount is due (discount not applicable) Enter Terms Net Days (Example: "31" for 31%)	M N0 1/3
ITD08	362	<b>Terms Discount Amount</b> Total amount of terms discount	O N2 1/10

**Segment:** **DTM** Date/Time Reference  
**Position:** 140  
**Loop:**  
**Level:** Heading  
**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:**

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
DTM01	374	<b>Date/Time Qualifier</b> Code specifying type of date or time, or both date and time 011 Shipped	M ID 3/3
DTM02	373	<b>Date</b> Date expressed as CCYYMMDD Shipped Date.	M DT 8/8

**Segment:** **FOB** F.O.B. Related Instructions

**Position:** 150

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

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

**Syntax Notes:** 1 If FOB03 is present, then FOB02 is required.

2 If FOB04 is present, then FOB05 is required.

3 If FOB07 is present, then FOB06 is required.

4 If FOB08 is present, then FOB09 is required.

**Semantic Notes:** 1 FOB01 indicates which party will pay the carrier.

2 FOB02 is the code specifying transportation responsibility location.

3 FOB06 is the code specifying the title passage location.

4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
FOB01	146	Shipment Method of Payment	M ID 2/2
		Code identifying payment terms for transportation charges	
		CC	Collect
		DF	Defined by Buyer and Seller
		PC	Prepaid but Charged to Customer
		PP	Prepaid (by Seller)
		PU	Pickup

**Segment:** **IT1** **Baseline Item Data (Invoice)**  
**Position:** 010  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the basic and most frequently used line item data for the invoice and related transactions

- Syntax Notes:**
- 1 If any of IT102 IT103 or IT104 is present, then all are required.
  - 2 If either IT106 or IT107 is present, then the other is required.
  - 3 If either IT108 or IT109 is present, then the other is required.
  - 4 If either IT110 or IT111 is present, then the other is required.
  - 5 If either IT112 or IT113 is present, then the other is required.
  - 6 If either IT114 or IT115 is present, then the other is required.
  - 7 If either IT116 or IT117 is present, then the other is required.
  - 8 If either IT118 or IT119 is present, then the other is required.
  - 9 If either IT120 or IT121 is present, then the other is required.
  - 10 If either IT122 or IT123 is present, then the other is required.
  - 11 If either IT124 or IT125 is present, then the other is required.

**Semantic Notes:** 1 IT101 is the purchase order line item identification.

- Comments:**
- 1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
  - 2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>M AN 1/20</b>
IT102	358	<b>Quantity Invoiced</b> Number of units invoiced (supplier units)	<b>M R 1/10</b>
IT103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	<b>M ID 2/2</b>
		DR Drum – (50-55 Gallons) – Liquid	
		EA Each	
		GA Gallon, Round or Square – Liquid	
		GH 1/2 Gallon – Liquid	
		PT Pint or 16 Ounces – Liquid	
		PV 1/2 Pint or 8 Ounces – Liquid	
		QT Quart – Liquid	
		TE Tote Bin	
		TK Tank Wagon or Truck (Gallon) – Liquid	
IT104	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc.	<b>M R 1/17</b>
IT105	639	<b>Basis of Unit Price Code</b> Code identifying the type of unit price for an item	<b>M ID 2/2</b>
		PE Price per Each	
IT106	235	<b>Product/Service ID Qualifier</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	<b>M ID 2/2</b>
		SK Stock Keeping Unit (SKU)	

IT107	234	<b>Product/Service ID</b>	<b>M AN 1/9</b>
		Identifying number for a product or service	
		9-digit Sherwin-Williams Sales Number (mandatory when EDI PO's are sent). Book Number for Book Order Wallcovering.	
IT108	235	<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)	
		VN	Vendor's (Seller's) Item Number
IT109	234	<b>Product/Service ID</b>	<b>M AN 1/48</b>
		Identifying number for a product or service	
		Vendor Item Number.	
IT110	235	<b>Product/Service ID Qualifier</b>	<b>O ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		If "UD" or "UP" sent in 850, return the exact code here.	
		UD	U.P.C./EAN Consumer Package Code (2-5-5)
		UP	U.P.C. Consumer Package Code (1-5-5-1)
IT111	234	<b>Product/Service ID</b>	<b>O AN 1/13</b>
		Identifying number for a product or service	
		If the UPC Code is sent in the 850, return the code here.	
IT112	235	<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)	
		ZZ	Mutually Defined
IT113	234	<b>Product/Service ID</b>	<b>M AN 1/2</b>
		Identifying number for a product or service	
		Type of Purchase Code: 01 - Merchandise/Resale 02 - Samples	
		<b>MAP the following codes – BUT DO NOT USE</b> <b>Currently not valid in SW systems</b>	
		03 - Expense 04 - Fixed Assets 05 - Miscellaneous	

**Segment:** QTY Quantity  
**Position:** 015  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify quantity information  
**Syntax Notes:** 1 At least one of QTY02 or QTY04 is required.  
 2 Only one of QTY02 or QTY04 may be present.  
**Semantic Notes:** 1 QTY04 is used when the quantity is non-numeric.  
**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
QTY01	673	<b>Quantity Qualifier</b> Code specifying the type of quantity 38 Original Quantity	M ID 2/2
QTY02	380	<b>Quantity</b> Numeric value of quantity The Original Quantity ordered	M R 1/15
QTY03	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	M
C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken DR Drum – (50-55 Gallons) – Liquid EA Each GA Gallon, Round or Square – Liquid GH 1/2 Gallon – Liquid PT Pint or 16 Ounces – Liquid PV 1/2 Pint or 8 Ounces – Liquid QT Quart – Liquid TE Tote Bin TK Tank Wagon or Truck (Gallon) – Liquid	M ID 2/2

**Segment:** **IT3 Additional Item Data**  
**Position:** 030  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities  
**Syntax Notes:** 1 If either IT301 or IT302 is present, then the other is required.  
2 At least one of IT301 IT303 IT304 or IT305 is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
IT301	382	<b>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	
IT302	355	<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	
		DR	Drum – (50-55 Gallons) – Liquid
		EA	Each
		GA	Gallon, Round or Square – Liquid
		GH	1/2 Gallon – Liquid
		PT	Pint or 16 Ounces – Liquid
		PV	1/2 Pint or 8 Ounces – Liquid
		QT	Quart – Liquid
		TE	Tote Bin
		TK	Tank Wagon or Truck (Gallon) – Liquid
IT303	368	<b>Shipment/Order Status Code</b>	<b>M ID 2/2</b>
		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	
		SH	Shipped

- Segment:** **PID** **Product/Item Description**
- Position:** 060
- Loop:** PID Mandatory
- Level:** Detail
- Usage:** Mandatory
- Max Use:** 1
- 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.

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
PID01	349	<b>Item Description Type</b> Code indicating the format of a description F Free-form	M ID 1/1
PID05	352	<b>Description</b> A free-form description to clarify the related data elements and their content Used to enter the Item Description.	M AN 1/80

**Segment:** **MEA** Measurements

**Position:** 070

**Loop:** PID Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

**Syntax Notes:**

- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
- 2 If MEA05 is present, then MEA04 is required.
- 3 If MEA06 is present, then MEA04 is required.
- 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
- 5 Only one of MEA08 or MEA03 may be present.

**Semantic Notes:**

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

**Comments:**

- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
MEA01	737	<b>Measurement Reference ID Code</b> Code identifying the broad category to which a measurement applies SD Shipped Dimensions	M ID 2/2
MEA02	738	<b>Measurement Qualifier</b> Code identifying a specific product or process characteristic to which a measurement applies WT Weight	M ID 1/3
MEA03	739	<b>Measurement Value</b> The value of the measurement Shipping Weight.	M R 1/20
MEA04	C001	<b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	M
C00101	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound	M ID 2/2

**Segment:** **REF** Reference Identification  
**Position:** 120  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**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:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification D4 Roll Number SE Serial Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Serial Number or Roll Number.	M AN 1/30

**Segment:** **REF** Reference Identification  
**Position:** 122  
**Loop:** IT1 Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 If either C04003 or C04004 is present, then the other is required.  
 2 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:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BV Purchase Order Line Item Identifier (Buyer)	M ID 2/3
REF03	352	Description A free-form description to clarify the related data elements and their content Line Item Sidemark.	M AN 1/80

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 180  
**Loop:** SAC Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**Syntax Notes:**

- 1 At least one of SAC02 or SAC03 is required.
- 2 If either SAC03 or SAC04 is present, then the other is required.
- 3 If either SAC06 or SAC07 is present, then the other is required.
- 4 If either SAC09 or SAC10 is present, then the other is required.
- 5 If SAC11 is present, then SAC10 is required.
- 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- 7 If SAC14 is present, then SAC13 is required.
- 8 If SAC16 is present, then SAC15 is required.

**Semantic Notes:**

- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
- 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 3 SAC08 is the allowance or charge rate per unit.
- 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 7 SAC16 is used to identify the language being used in SAC15.

**Comments:**

- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
SAC01	248	<b>Allowance or Charge Indicator</b>	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		P Promotion	
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	M ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		F800 Promotional Allowance	
SAC05	610	<b>Amount</b>	M N2 1/15
		<b>Monetary Amount</b>	
		<b>Related Allowance, chare or promotional amount</b>	
SAC15	352	<b>Description</b>	M AN 1/80
		A free-form description to clarify the related data elements and their content	
		Promotion Description	

<b>Segment:</b>	<b>SLN Subline Item Detail</b>
<b>Position:</b>	200
<b>Loop:</b>	SLN Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify product subline detail item data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either SLN04 or SLN05 is present, then the other is required.</li> <li>2 If SLN07 is present, then SLN06 is required.</li> <li>3 If SLN08 is present, then SLN06 is required.</li> <li>4 If either SLN09 or SLN10 is present, then the other is required.</li> <li>5 If either SLN11 or SLN12 is present, then the other is required.</li> <li>6 If either SLN13 or SLN14 is present, then the other is required.</li> <li>7 If either SLN15 or SLN16 is present, then the other is required.</li> <li>8 If either SLN17 or SLN18 is present, then the other is required.</li> <li>9 If either SLN19 or SLN20 is present, then the other is required.</li> <li>10 If either SLN21 or SLN22 is present, then the other is required.</li> <li>11 If either SLN23 or SLN24 is present, then the other is required.</li> <li>12 If either SLN25 or SLN26 is present, then the other is required.</li> <li>13 If either SLN27 or SLN28 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 SLN01 is the identifying number for the subline item.</li> <li>2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.</li> <li>3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.</li> <li>4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Element Dictionary for a complete list of IDs.</li> <li>2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.</li> <li>3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	
SLN01	<b>350</b> <b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>M AN 1/20</b>
SLN03	<b>662</b> <b>Relationship Code</b> Code indicating the relationship between entities I Included	<b>M ID 1/1</b>
SLN04	<b>380</b> <b>Quantity</b> Numeric value of quantity	<b>M R 1/15</b>
SLN05	<b>C001</b> <b>Composite Unit of Measure</b> To identify a composite unit of measure (See Figures Appendix for examples of use)	<b>M</b>

<b>C00101</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>M</b>	<b>ID 2/2</b>
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		DR Drum – (50-55 Gallons) – Liquid		
		EA Each		
		GA Gallon, Round or Square – Liquid		
		GH 1/2 Gallon – Liquid		
		PT Pint or 16 Ounces – Liquid		
		PV 1/2 Pint or 8 Ounces – Liquid		
		QT Quart – Liquid		
		TE Tote Bin		
		TK Tank Wagon or Truck (Gallon) – Liquid		
<b>SLN09</b>	<b>235</b>	<b>Product/Service ID Qualifier</b>	<b>X</b>	<b>ID 2/2</b>
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		DL Dye Lot Number		
		VN Vendor's (Seller's) Item Number		
<b>SLN10</b>	<b>234</b>	<b>Product/Service ID</b>	<b>X</b>	<b>AN 1/48</b>
		Identifying number for a product or service		
		VN = Item Number for Component		
		DL = Dye Lot Number		

**Segment:** **REF** Reference Identification  
**Position:** 210  
**Loop:** SLN Optional  
**Level:** Detail  
**Usage:** Optional  
**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:**

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification D4 Roll Number SE Serial Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Serial Number or Roll Number.	M AN 1/30

- Segment:** **PID** **Product/Item Description**
- Position:** 220
- Loop:** SLN Optional
- Level:** Detail
- Usage:** Optional
- Max Use:** 1
- 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.

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
PID01	349	<b>Item Description Type</b> Code indicating the format of a description F Free-form	M ID 1/1
PID05	352	<b>Description</b> A free-form description to clarify the related data elements and their content Used to enter the Item Description.	M AN 1/80

**Segment:** **TDS** Total Monetary Value Summary  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify the total invoice discounts and amounts  
**Syntax Notes:**  
**Semantic Notes:**

- 1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2 TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4 TDS04 indicates the total amount of terms discount.

**Comments:**

- 1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TDS01	610	Amount	M N2 1/15
		Monetary amount	
		Total Amount, including Taxes (SAC segment) and Charges (TXI segment).	
TDS02	610	Amount	O N2 1/15
		Monetary amount	
		Total Subject to Terms Discount.	
TDS03	610	Amount	O N2 1/15
		Monetary amount	
		Discounted Amount Due.	
TDS04	610	Amount	O N2 1/15
		Monetary amount	
		Total Discount Amount.	

**Segment:** **TXI Tax Information**

**Position:** 020

**Loop:**

**Level:** Summary

**Usage:** Optional

**Max Use:** 3

**Purpose:** To specify tax information

- Syntax Notes:**
- 1 At least one of TXI02 TXI03 or TXI06 is required.
  - 2 If either TXI04 or TXI05 is present, then the other is required.
  - 3 If TXI08 is present, then TXI03 is required.

- Semantic Notes:**
- 1 TXI02 is the monetary amount of the tax.
  - 2 TXI03 is the tax percent expressed as a decimal.
  - 3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Tax Type Code</u>	<u>M</u> <u>ID</u> <u>2/2</u>
TXI01	963		
		Code specifying the type of tax	
		CG Federal Value-added Tax (GST) on Goods	
		OH Other Taxes	
		PG State or Provincial Tax on Goods	
TXI02	782	<b>Monetary Amount</b>	<b>X R 1/18</b>
		Monetary amount	
TXI03	954	<b>Percent</b>	<b>X R 1/10</b>
		Percentage expressed as a decimal	

**Segment:** **CAD** Carrier Detail

**Position:** 030

**Loop:**

**Level:** Summary

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To specify transportation details for the transaction

**Syntax Notes:** 1 At least one of CAD05 or CAD04 is required.

2 If CAD07 is present, then CAD08 is required.

**Semantic Notes:**

**Comments:**

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
CAD01	91	<b>Transportation Method/Type Code</b>	M ID 1/2
		Code specifying the method or type of transportation for the shipment Vendor defined, using valid codes.	
CAD05	387	<b>Routing</b>	M AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity Vendor defined.	
CAD07	128	<b>Reference Identification Qualifier</b>	O ID 2/3
		Code qualifying the Reference Identification BM Bill of Lading Number	
CAD08	127	<b>Reference Identification</b>	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Bill of Lading Number.	

**Segment:** SAC Service, Promotion, Allowance, or Charge Information  
**Position:** 040  
**Loop:** SAC Optional  
**Level:** Summary  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax Notes:**
- 1 At least one of SAC02 or SAC03 is required.
  - 2 If either SAC03 or SAC04 is present, then the other is required.
  - 3 If either SAC06 or SAC07 is present, then the other is required.
  - 4 If either SAC09 or SAC10 is present, then the other is required.
  - 5 If SAC11 is present, then SAC10 is required.
  - 6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.
  - 7 If SAC14 is present, then SAC13 is required.
  - 8 If SAC16 is present, then SAC15 is required.

- Semantic Notes:**
- 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
  - 2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
  - 3 SAC08 is the allowance or charge rate per unit.
  - 4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
  - 5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
  - 6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
  - 7 SAC16 is used to identify the language being used in SAC15.
- Comments:**
- 1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
  - 2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
SAC01	248	Allowance or Charge Indicator	M ID 1/1
		Code which indicates an allowance or charge for the service specified	
		A Allowance	
		C Charge	
		P Promotion	
SAC02	1300	Service, Promotion, Allowance, or Charge Code	M ID 4/4
		Code identifying the service, promotion, allowance, or charge	
		D240 Freight	
		D500 Handling	
		F050 Other (See related description)	
		F190 Palletizing	
		F800 Promotional Allowance	
SAC05	610	Amount	M N2 1/15
		Monetary amount	
		Related Charge.	

SAC15

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**Description**

M AN 1/80

A free-form description to clarify the related data elements and their content  
Allowance, Charge, or Promotion Description.

**Segment:** **ISS Invoice Shipment Summary**  
**Position:** 060  
**Loop:** ISS Mandatory  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify summary details of total items shipped in terms of quantity, weight, and volume

**Syntax Notes:**

- 1 At least one of ISS01 ISS03 or ISS05 is required.
- 2 If either ISS01 or ISS02 is present, then the other is required.
- 3 If either ISS03 or ISS04 is present, then the other is required.
- 4 If either ISS05 or ISS06 is present, then the other is required.

**Semantic Notes:**

- 1 ISS07 is the quantity of third party pallets.
- 2 ISS08 is the gross weight of third party pallets in pounds.

**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
ISS01		382	<b>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	
			Total Units on Invoice.	
ISS02		355	<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	
			DR Drum – (50-55 Gallons) – Liquid	
			EA Each	
			GA Gallon, Round or Square – Liquid	
			GH 1/2 Gallon – Liquid	
			PT Pint or 16 Ounces – Liquid	
			PV 1/2 Pint or 8 Ounces – Liquid	
			QT Quart – Liquid	
			TE Tote Bin	
			TK Tank Wagon or Truck (Gallon) – Liquid	
ISS03		81	<b>Weight</b>	<b>M R 1/10</b>
			Numeric value of weight	
ISS04		355	<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	

**Segment:** **CTT** Transaction Totals  
**Position:** 070  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**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**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
CTT01	354	Number of Line Items	M N0 1/6
		Total number of line items in the transaction set	
CTT02	347	Hash Total	M 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.	

**Segment:** **SE** Transaction Set Trailer  
**Position:** 080  
**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>
SE01	96	Number of Included Segments	M N0 1/10
		Total number of segments included in a transaction set including ST and SE segments	
SE02	329	Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	