

# Automated Commercial Environment

309 Manifest Hazardous Material Download

November 2010



U.S. Customs and  
Border Protection



# 309 U.S. Customs Manifest Hazardous Material Download

Functional Group ID=SO

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the U.S. Customs and Border Protection (CBP) Manifest Transaction Set (309) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used by carriers, NVOCC's, terminal operators, port authorities, or service centers to provide U.S. Customs with manifest data on cargo arriving in or departing from the U.S. on oceangoing vessels, railroad trains, or other types of conveyances. The transaction set can be also used by carriers or NVOCC's to provide terminal operators, port authorities, or service centers with manifest data on cargo arriving at their facilities via the conveyances mentioned above.

This Implementation Guideline uses the ASC X12 4010 Standards Version/Release as its base. The transaction structure has been altered to accommodate U.S. Customs and Border Protection implementation requirements.

## Notes:

This outbound transaction is used by CBP to provide a participating Port Authority with a copy of hazardous materials (HAZMAT) data previously received and successfully processed as part of an original manifest submission or manifest amendment. Each Hazardous Materials Download transaction contains the data for all containers passing through a given port within a single manifest for which HAZMAT Information records (H1 and H2) were provided. The output segments provide all identifying information for the manifest, containers, and hazardous materials. For Manifest Amendments containing Hazardous Material, it is possible to receive another HAZMAT Download with the VID, H1, and H2 segments that were previously reported from the original manifest submission. The HAZMAT data from the Amendment should supersede that from the original HAZMAT Download.

This transaction set will echo or duplicate the data on the original segments in the TS309 transaction sent to CBP.

### SPECIAL MESSAGING CONSTRAINTS:

- Limit one Interchange (ISA-IEA) per message transmission.
- Limit one message Group (GS-GE) per message transmission.
- Limit one transaction sets (ST-SE) of the same Transaction Set (TS) Identifier Code (i.e., 350, etc). Only one is allowed per message transmission.
- Element delimiters used in this transaction will be '\*' (asterisk).
- Segment delimiters used in this transaction will be one byte with a value of hex '15'.
- A segment delimiter will be the last byte of data in the message transmission data stream.
- Only uppercase AMERICAN ENGLISH alphabetic data will be transmitted.
- ONLY displayable characters found on a standard American English keyboard will be transmitted. Low-values, carriage return characters, or other non-standard characters shall not be transmitted.
- 'Not Used' in the left column indicates that a composite or data element will not be used by CBP.
- 'Dep' in the left column indicates that CBP usage of a particular segment or element is Dependent (Conditional) within the CBP application.
- Per the ASC X12 Standard, an 'M' indicates a Mandatory use, 'O' indicates Optional Use and an 'X' indicates a Conditional use.
- CBP requirements may override ASC X12 Standard Mandatory or Conditional usages.
- Maximum allowable message transmission size is 12 megabytes (12,582,912 bytes) of data.

(Last Update: January 28, 2010) ACE v 1.0

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>
M	015	ISA	Interchange Control Header	M	1	
M	023	GS	Functional Group Header	M	1	
M	030	ST	Transaction Set Header	M	1	
M	040	M10	Manifest Identifying Information	M	1	
	045	N9	Reference Identification	O	1	
LOOP ID - P4						20
M	050	P4	U.S. Port Information	M	1	
LOOP ID - LX						9999
M	060	LX	Assigned Number	M	1	
Not Used	070	M13	Manifest Amendment Details	O	1	
Not Used	080	M11	Manifest Bill of Lading Details	O	1	
Not Used	090	N9	Reference Identification	O	999	
LOOP ID - N1						25
Not Used	100	N1	Name	O	1	
Not Used	110	N3	Address Information	O	2	
Not Used	120	N4	Geographic Location	O	1	
Not Used	130	DTM	Date/Time Reference	O	1	
Not Used	140	PER	Administrative Communications Contact	O	1	
LOOP ID - M12						1
Not Used	150	M12	In-bond Identifying Information	O	1	
Not Used	160	R4	Port or Terminal	O	10	
LOOP ID - VID						999
Must Use	170	VID	Conveyance Identification	O	1	
Not Used	180	VC	Motor Vehicle Control	O	50	
LOOP ID - N10						999
Not Returned	190	N10	Quantity and Description	O	1	
LOOP ID - H1						99
Must Use	200	H1	Hazardous Material	O	1	
Dep	210	H2	Additional Hazardous Material Description	O	2	
M	200	SE	Transaction Set Trailer	M	1	
M	220	GE	Functional Group Trailer	M	1	
M	240	IEA	Interchange Control Trailer	M	1	

**Segment:** **ISA** Interchange Control Header  
**Position:** 015  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To start and identify an interchange of zero or more functional groups and interchange-related control segments

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

#### Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ISA01	I01	<b>Authorization Information Qualifier</b> Code to identify the type of information in the Authorization Information Always '00' 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2
M	ISA02	I02	<b>Authorization Information</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) Always 10 spaces.	M AN 10/10
M	ISA03	I03	<b>Security Information Qualifier</b> Code to identify the type of information in the Security Information Always '00' 00 No Security Information Present (No Meaningful Information in I04)	M ID 2/2
M	ISA04	I04	<b>Security Information</b> This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) Always 10 spaces.	M AN 10/10
M	ISA05	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Always 'ZZ' ZZ Mutually Defined	M ID 2/2
M	ISA06	I06	<b>Interchange Sender ID</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element 'CUSTOMSTST' - Testing 'CUSTOMS' - Production	M AN 15/15
M	ISA07	I05	<b>Interchange ID Qualifier</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Always 'ZZ' ZZ Mutually Defined	M ID 2/2

M	ISA08	I07	<b>Interchange Receiver ID</b>	M AN 15/15
			Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them Receiver Identifier. Up to 4 alpha/numeric characters. Value will contain the Standard Carrier Alpha Code (SCAC) or the identity of the Service Center if applicable. May be identical to that of GS03.	
M	ISA09	I08	<b>Interchange Date</b>	M DT 6/6
			Date of the interchange Date as YYMMDD where: YY - Year MM - Month of Year DD - Day of Month	
M	ISA10	I09	<b>Interchange Time</b>	M TM 4/4
			Time of the interchange Time as HHMM where: HH - Hour MM - Minute	
M	ISA11	I10	<b>Interchange Control Standards Identifier</b>	M ID 1/1
			Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer Always 'U' U U.S. EDI Community of ASC X12, TDCC, and UCS	
M	ISA12	I11	<b>Interchange Control Version Number</b>	M ID 5/5
			This version number covers the interchange control segments Always '00401' 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	
M	ISA13	I12	<b>Interchange Control Number</b>	M N0 9/9
			A control number assigned by the interchange sender	
M	ISA14	I13	<b>Acknowledgment Requested</b>	M ID 1/1
			Code sent by the sender to request an interchange acknowledgment (TA1) Always '0' 0 No Acknowledgment Requested	
M	ISA15	I14	<b>Usage Indicator</b>	M ID 1/1
			Code to indicate whether data enclosed by this interchange envelope is test, production or information Always 'P' P Production Data T Test Data	
M	ISA16	I15	<b>Component Element Separator</b>	M AN 1/1
			Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator Always ':' (colon)	

**Segment:** **GS** Functional Group Header  
**Position:** 023  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the beginning of a functional group and to provide control information  
**Syntax Notes:**  
**Semantic Notes:**

- 1 GS04 is the group date.
- 2 GS05 is the group time.
- 3 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GS01	479	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets Always 'SO'	M ID 2/2
			SO Ocean Shipment Information	
M	GS02	142	<b>Application Sender's Code</b> Code identifying party sending transmission; codes agreed to by trading partners 'CUSTOMSTST' - Testing 'CUSTOMS' - Production	M AN 2/15
M	GS03	124	<b>Application Receiver's Code</b> Code identifying party receiving transmission; codes agreed to by trading partners Receiver Identifier. Up to 4 alpha/numeric characters. Value will contain the Standard Carrier Alpha Code (SCAC) or the identity of the Service Center if applicable. May be identical to that of ISA08.	M AN 2/15
M	GS04	373	<b>Date</b> Date expressed as CCYYMMDD Date as CCYYMMDD where: CC - Century YY - Year MM - Month of Year DD - Day of Month	M DT 8/8
M	GS05	337	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) Time as HHMM where: HH - Hour MM - Minute	M TM 4/8
M	GS06	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	M N0 1/9
M	GS07	455	<b>Responsible Agency Code</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard Always 'X'	M ID 1/2
			X Accredited Standards Committee X12	

M

GS08

480

**Version / Release / Industry Identifier Code**

M AN 1/12

Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed  
Always '004010'

004010

Draft Standards Approved for Publication by ASC X12  
Procedures Review Board through October 1997

**Segment:** **ST** Transaction Set Header  
**Position:** 030  
**Loop:**  
**Level:**  
**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).

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set Always '309'	M ID 3/3
M	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:** **M10** Manifest Identifying Information  
**Position:** 040  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit manifest identifying information  
**Syntax Notes:**

- 1 If either M1004 or M1010 is present, then the other is required.
- 2 At least one of M1005 or M1004 is required.

**Semantic Notes:**

- 1 M1004 is International Maritime Organization (IMO) Code issued by Lloyds.
- 2 M1007 is used for the six-digit Numeric Manifest Sequence Number.
- 3 M1011 indicates if the transmission involves an in-bond participant. A "Y" indicates it does; an "N" indicates it does not.
- 4 M1012 is a unique identification number for the manifest assigned by the originator of the manifest with a maximum length of 15.

**Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	M1001	140	<b>Standard Carrier Alpha Code</b> Standard Carrier Alpha Code SCAC of Carrier who initiated the inbound manifest.	M ID 2/4
M	M1002	91	<b>Transportation Method/Type Code</b> Code specifying the method or type of transportation for the shipment Always 'O'	M ID 1/2
M	M1003	26	<b>Country Code</b> Code identifying the country ISO 2 alpha Country Code.	M ID 2/3
	M1004	597	<b>Vessel Code</b> Code identifying vessel International Maritime Organization (IMO) Code issued by Lloyds.	X ID 1/8
	M1005	182	<b>Vessel Name</b> Name of vessel Vessel Name.	X AN 2/28
M	M1006	55	<b>Flight/Voyage Number</b> Identifying designator for the particular flight or voyage on which the cargo travels Voyage Number.	M AN 2/10
	M1007	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Unique carrier number will be returned if provided on the inbound message. If not provided, response will return '000001' in this element.	O AN 1/30
Not Used	M1008	380	<b>Quantity</b>	O R 1/15
M	M1009	256	<b>Manifest Type Code</b> Code identifying the type of manifest transmitted Always 'O' O CBP HAZMAT Download	M ID 1/1
	M1010	897	<b>Vessel Code Qualifier</b> Code specifying vessel code source L IMO Code issued by Lloyds.	X ID 1/1
Not Used	M1011	1073	<b>Yes/No Condition or Response Code</b>	O ID 1/1



**Segment:** N9 Reference Identification  
**Position:** 045  
**Loop:**  
**Level:**  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier  
**Syntax Notes:**

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

**Notes:** Unique Voyage Identifier submitted from MVOCC vessel operators only. This record will be provided from original manifest submissions but will NOT be provided for manifest amendments.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification Unique Voyage Identifier V3 Unique Voyage Identifier	M ID 2/3
	N902	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Ocean manifest returns minimum 5 and up to 30 alpha/numeric characters in this field.	X AN 1/30
Not Used	N903	369	<b>Free-form Description</b>	X AN 1/45
Not Used	N904	373	<b>Date</b>	O DT 8/8
Not Used	N905	337	<b>Time</b>	X TM 4/8
Not Used	N906	623	<b>Time Code</b>	O ID 2/2
Not Used	N907	C040	<b>Reference Identifier</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O
Not Used	C04001	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	M ID 2/3
Not Used	C04002	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
Not Used	C04003	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
Not Used	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	C04005	128	<b>Reference Identification Qualifier</b> Code qualifying the Reference Identification	X ID 2/3
Not Used	C04006	127	<b>Reference Identification</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **P4** U.S. Port Information  
**Position:** 050  
**Loop:** P4 Mandatory  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying information for a U.S. port  
**Syntax Notes:**  
**Semantic Notes:**

- 1 P401 is used for customs district and port code (census schedule D).
- 2 P402 is the estimated date of arrival.
- 3 P403 is used for number of bills of lading.
- 4 P404 is the Facilities Information and Resources Management System (FIRMS) Code.
- 5 P405 is the estimated time of arrival for P402.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	P401	310	<b>Location Identifier</b> Code which identifies a specific location Port of Arrival of the vessel in the U.S. Refer to Census Schedule D in CAMIR Appendix E to explain valid codes	M AN 1/30
M	P402	373	<b>Date</b> Date expressed as CCYYMMDD Estimate Date of Arrival. Date as CCYYMMDD where: CC - Century YY - Year MM - Month of Year DD - Day of Month	M DT 8/8
Not Used	P403	380	<b>Quantity</b>	O R 1/15
Not Used	P404	310	<b>Location Identifier</b>	O AN 1/30
Not Used	P405	337	<b>Time</b>	O TM 4/8

**Segment:** **LX** Assigned Number  
**Position:** 060  
**Loop:** LX Mandatory  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To reference a line number in a transaction set  
**Syntax Notes:**  
**Semantic Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	LX01	554	Assigned Number	M N0 1/6
			Number assigned for differentiation within a transaction set	
			One LX segment per bill in the 309 transaction set.	

**Segment:** **VID** Conveyance Identification  
**Position:** 170  
**Loop:** VID Optional (Must Use)  
**Level:**  
**Usage:** Optional (Must Use)  
**Max Use:** 1  
**Purpose:** To identify a conveyance and its attributes  
**Syntax Notes:**  
**Semantic Notes:**

- 1 VID12 is the Census Schedule K code for the foreign port of loading on a vessel.
- 2 VID13 is the Standard Carrier Alpha Code (SCAC) of the Haulage Rights Carrier.

**Notes:**

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	VID01	40	<b>Equipment Description Code</b> Code identifying type of equipment used for shipment Refer to CAMIR Appendix I to explain valid codes.	M ID 2/2
	VID02	206	<b>Equipment Initial</b> Prefix or alphabetic part of an equipment unit's identifying number	O AN 1/4
M	VID03	207	<b>Equipment Number</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) 'NC' indicates non-containerized cargo.	M AN 1/10
	VID04	225	<b>Seal Number</b> Unique number on seal used to close a shipment A valid exporter/carrier seal number associated with this shipment.	O AN 2/15
	VID05	225	<b>Seal Number</b> Unique number on seal used to close a shipment A valid exporter/carrier seal number associated with this shipment.	O AN 2/15
	VID06	567	<b>Equipment Length</b> Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11) Will not be provided if VID09 is provided.	O N0 4/5
	VID07	65	<b>Height</b> Vertical dimension of an object measured when the object is in the upright position The format is FFFFFFFII where FFFFFFF is feet and II is inches; the range for II is 00 through 11. Will not be provided if VID09 is provided.	O R 1/8
	VID08	189	<b>Width</b> Shorter measurement of the two horizontal dimensions measured with the object in the upright position The format is FFFFFFFII where FFFFFFF is feet and II is inches; the range for II is 00 through 11. Will not be provided if VID09 is provided.	O R 1/8
	VID09	24	<b>Equipment Type</b> Code identifying equipment type Refer to CAMIR Appendix M to explain valid codes.	O ID 4/4
	VID10	322	<b>Load/Empty Status Code</b> Code which specifies the loaded condition of transportation equipment	O ID 1/1

Values returned by CBP.

E Empty  
L Loaded

**VID11 56 Type of Service Code O ID 2/2**  
Code specifying extent of transportation service requested

Values returned by CBP.

BB Breakbulk  
CS Container Station  
CY Container Yard  
HH House-to-house  
HL Headload or Devanning  
HP House-to-pier  
MD Mixed Delivery  
NC Non-containerized cargo  
PH Pier-to-house  
PP Pier-to-pier  
RR Roll-on Roll-off

**Not Used VID12 310 Location Identifier O AN 1/30**  
**Not Used VID13 140 Standard Carrier Alpha Code O ID 2/4**

**Segment:** **N10** **Quantity and Description**  
**Position:** 190  
**Loop:** N10 Optional (Not Recommended)  
**Level:**  
**Usage:** Optional (Not Recommended)  
**Max Use:** 1  
**Purpose:** To indicate line item quantity, description, marks and numbers, commodity code, weight, and customs value

**Syntax Notes:**

- 1 If either N1004 or N1005 is present, then the other is required.
- 2 If either N1006 or N1013 is present, then the other is required.
- 3 If either N1007 or N1008 is present, then the other is required.

**Semantic Notes:**

- 1 N1009 is the U.S. Customs bar code number for line release.
- 2 N1011 is the country of the manufacturer of the goods.
- 3 N1012 is the country of the final destination of the goods.
- 4 N1013 is the currency of the value of N1006.

**Notes:** Segment will not be provided.

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N1001	380	<b>Quantity</b> Numeric value of quantity	O R 1/15
N1002	369	<b>Free-form Description</b> Free-form descriptive text	O AN 1/45
N1003	87	<b>Marks and Numbers</b> Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48
N1004	23	<b>Commodity Code Qualifier</b> Code identifying the commodity coding system used for Commodity Code	X ID 1/1
N1005	22	<b>Commodity Code</b>	X AN 1/30
N1006	602	<b>Customs Shipment Value</b> Customs value in whole dollars	X AN 2/8
N1007	188	<b>Weight Unit Code</b> Code specifying the weight unit	X ID 1/1
N1008	81	<b>Weight</b> Numeric value of weight	X R 1/10
N1009	127	<b>Reference Identification</b>	O AN 1/30
N1010	599	<b>Manifest Unit Code</b> Code defining the smallest package unit for the bill of lading	O ID 1/3
N1011	26	<b>Country Code</b> Code identifying the country	O ID 2/3
N1012	26	<b>Country Code</b>	O ID 2/3
N1013	100	<b>Currency Code</b>	X ID 3/3



**Segment:** **H1 Hazardous Material**  
**Position:** 200  
**Loop:** H1 Optional (Must Use)  
**Level:**  
**Usage:** Optional (Must Use)  
**Max Use:** 1  
**Purpose:** To specify information relative to hazardous material  
**Syntax Notes:** 1 If either H107 or H108 is present, then the other is required.  
**Semantic Notes:**  
**Notes:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	H101	<b>62 Hazardous Material Code</b>	<b>M AN 4/10</b>
		Code relating to hazardous material code qualifier for regulated hazardous materials UN/NA (United Nations/North American Hazardous Materials Code) List.	
	H102	<b>209 Hazardous Material Class Code</b>	<b>O AN 1/4</b>
		Code specifying the kind of hazard for a material A code representing the identification number assigned to the hazardous material.	
	H103	<b>208 Hazardous Material Code Qualifier</b>	<b>O ID 1/1</b>
		Code which qualifies the Hazardous Material Class Code (209) U United Nations	
	H104	<b>64 Hazardous Material Description</b>	<b>O AN 2/30</b>
		Material name, special instructions, and phone number if any First 30 positions of the Proper Shipping Name, next 30 positions will be placed in H201	
	H105	<b>63 Hazardous Material Contact</b>	<b>O AN 1/24</b>
		Phone number and name of person or department to contact in case of emergency Name and/or phone number for the HAZMAT contact will be provided.	
	H106	<b>200 Hazardous Materials Page</b>	<b>O AN 1/6</b>
		The United Nations page number as required for the international transport of hazardous materials The page number in the IMDG code on which the hazardous material identification is found.	
	H107	<b>77 Flashpoint Temperature</b>	<b>X N 1/3</b>
		The flashpoint temperature for hazardous material A code representing the lowest temperature at which the vapor of a hazardous combustible material will ignite in the air.	

	<b>H108</b>	<b>355</b>	<b>Unit or Basis for Measurement Code</b>	<b>X</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		
			A code representing the basic unit of measurement (UOM) for the flashpoint temperature.		
			CE Centigrade, Celsius		
<b>Not Used</b>	<b>H109</b>	<b>254</b>	<b>Packing Group Code</b>	<b>O</b>	<b>ID 1/3</b>

**Segment:** **H2** Additional Hazardous Material Description  
**Position:** 210  
**Loop:** H1 Optional (Must Use)  
**Level:**  
**Usage:** Optional (Dependent)  
**Max Use:** 2  
**Purpose:** To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment

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



**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	H201	64	<b>Hazardous Material Description</b> Material name, special instructions, and phone number if any Additional 30 alpha/numeric characters of the Proper Shipping Name (H105)..	M AN 2/30
Not Used	H202	274	<b>Hazardous Material Classification</b>	O AN 1/30

**Segment:** **SE** Transaction Set Trailer  
**Position:** 200  
**Loop:**  
**Level:**  
**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:**

**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>		
M	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	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:** **GE** Functional Group Trailer  
**Position:** 220  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of a functional group and to provide control information  
**Syntax Notes:**  
**Semantic Notes:** 1 The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	GE01	97	<b>Number of Transaction Sets Included</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	<b>M N0 1/6</b>
M	GE02	28	<b>Group Control Number</b> Assigned number originated and maintained by the sender	<b>M N0 1/9</b>

**Segment:** **IEA** Interchange Control Trailer  
**Position:** 240  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To define the end of an interchange of zero or more functional groups and interchange-related control segments

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

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
M	IEA01	I16	<b>Number of Included Functional Groups</b> A count of the number of functional groups included in an interchange	M N0 1/5
M	IEA02	I12	<b>Interchange Control Number</b> A control number assigned by the interchange sender	M N0 9/9