Implementation Guide
Rail Carrier Shipment Information

EDI 404

**Carload Bill of Lading
USA to Canada
General Merchandise and
Dangerous Goods**

Version 008030

Connection to CN

CN has a secure MFT server https://mftedi.cn.ca/ or we can push to an FTP server if you require. CN also connects with all major VAN's (Value Added Networks) and interconnects can be made available.

CN Contact

The EDI Onboarding email address is EDIMGR@cn.ca. You can also visit us at www.cn.ca.

Canadian National Railway - Electronic Commerce
Basic EDI 404 (Rail Bill of Lading) Requirements

The enclosed documentation covers information required to handle carload traffic for both general merchandise and hazardous material from a United States origin to a Canadian destination.

On this version 8030, there is a new requirement in the R2 segment that when there are multiple R2 segments present, the R203 (junction) is required on each, except for the final R2 segment.

Canadian National Railway - Electronic Commerce
USA to Canada EDI 404 (Rail Bill of Lading) Requirements

CN recommends EDI shippers to be within 2 versions of the current EDI Standard X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on traffic of general merchandise from a domestic United States origin to a Canadian destination.

EDI 404 with mandatory transborder data highlighted in bold red.

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ISA*00*        *00*        *ZZ*GENERIC        *02*CN            *230928*1339*U*00803*006298413*0*P*>
GS*SR*GENERIC*CN*20230928*1336*98826*X*008030
ST*404*988260001
BX*00*R*PP*1257*CN*L*B*N
BNX*S**S
M3*R*20230928*1336*ET
N9*BM*1257**20230928*1336
N9*HS*481013
N9*ITN*20020421123456
N9*CEN*NOEEI 30.36
N7*CN*123456*213360*N*******RR
M7*12345
F9**LEMONT*IL
D9**EDMONTON*AB
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*LEMONT*IL*12345*US
PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*XQ*CANADIAN BROKER CO
N3*12 NORTH ST
N4*FORT FRANCES*ON*R2T1U4*CA
R2*CN*S
LX*1
L5*1*PRINTING PAPER*2621345*T
L0*1***213360*N***24*ROL
MEA*AI*VOL*250.6041*CR***15
MEA**VWT*0.7167*KC***15
SE*36*988260001
GE*1*98826
IEA*1*006298413
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Customs Disclosure

Because this is an international shipment, two requirements need to be met:

1. US export requirements
2. Canadian Import requirements

US Export Requirements

All export shipments from the US must have one of the following three numbers:

- Automated Export System (AES) Internal Transaction Number (ITN)
- AES Export Information Code Exemption Number
- AES Post Departure Filer number

Canadian Import Requirements

All imported shipments into Canada must have:

- Canadian Broker, who will clear the shipment.
- Country of Origin
- Product Harmonized Code

ISA Segment: Interchange Control Header

ISA*00*   *00*   *ZZ*GENERIC   *02*CN   *230928*1339*U*00803*006298413*0*P*>

Ref. Des.	Name	Data Element	Attributes	
ISA01	Authorization Information Qualifier	I01	ID	2/2
ISA02	Authorization Information (Ten spaces)	I02	AN	10/10
ISA03	Security Information Qualifier	I03	ID	2/2
ISA04	Security Information (Ten spaces)	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (GENERIC - fill out field with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (CN - fill out field with spaces)	I07	AN	15/15
ISA09	Interchange Date (YYMMDD)	I08	DT	6/6
ISA10	Interchange Time (HHMM)	I09	TM	4/4
ISA11	Repetition Separator (Suggest "^")	I65		1/1
ISA12	Interchange Control Version Number (Value 00803)	I11	ID	5/5
ISA13	Interchange Control Number (a control number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none requested) (1= requested)	I13	ID	1/1
ISA15	Usage Indicator (P = Production) (T = Test)	I14	ID	1/1
ISA16	Component Element Separator (Suggest ":")	I15		1/1

GS Segment: Functional Group Header

GS*SR*GENERIC*CN*20230928*1336*98826*X*008030

Ref. Des.	Name	Data Element	Attributes	
GS01	Functional Identifier Code (SR = Rail Carrier Shipment Information)	479	ID	2/2
GS02	Application Sender's Code (Customer's sender ID)	142	AN	2/15
GS03	Application Receiver's Code (CN = Canadian National)	124	AN	2/15
GS04	Date (YYYYMMDD)	373	DT	8/8
GS05	Time (HHMMSS)	337	TM	4/8
GS06	Group Control Number (Assigned number originated and maintained by the sender)	28	N0	1/9
GS07	Responsible Agency Code (X = Accredited Standards Committee X12)	455	ID	1/2
GS08	Version / Release / Industry Identity	480	AN	1/12

ST Segment: Transaction Set Header

To indicate the start of a transaction set and to assign a control number.

ST*404*988260001

Ref. Des.	Name	Data Element	Attributes	
ST01	Transaction Set Identifier Code (404 = Rail Carrier Shipment Information (Bill of Lading))	143	ID	3/3
ST02	Transaction Set Control Number (Sequential control number generated by Customer)	329	AN	4/9

BX Segment: General Shipment Information

BX*00*R*PP*1257*CN*L*B*N

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00=Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R=Rail)	91	ID	1/2
BX03	Shipment Method of Payment (PP=Prepaid)	146	ID	2/2
BX04	Shipment Identification Number	145	AN	1/30
BX05	Standard Carrier Alpha Code (CN=CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L=Pounds)	188	ID	1/1
BX07	Shipment Qualifier (B=Bill of Lading for Individual Shipment)	147	ID	1/1
BX08	Section Seven Code (N=not in effect)	226	ID	1/1

BNX Segment: Rail Shipment Information

BNX*SS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released at a future time.

M3*R*20230928*1336*ET

Ref. Des.	Name	Data Element	Attributes	
M301	Release Code (R = Release with Shipment Information)	132	ID	1/1
M302	Release Date (CCYYMMDD)	373	DT	8/8
M303	Release Time (HHMM, 24-hour clock 0001-2359)	337	TM	4/6
M304	Time Code (ET = eastern time)	623	ID	2/2

N9 Segment: Reference Number

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*125720230928*1336**
N9*HS*481013
N9*ITN*20020421123456
N9*CEN*NOEEI 30.36

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading number) (HS = product harmonized code) (ITN=Census Internal Transaction number) (CEN=US Census Exemption number)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8

N7 Segment: Equipment Details

N7*CN*123456*213360*N*****RR**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/10
N704	Weight Qualifier (N = Net Weight)	187	ID	1/2
N711	Equipment Description Code (RR = Railcar)	40	ID	2/2

M7 Segment: Seal Numbers

M7*12345

Ref. Des.	Name	Data Element	Attributes	
M701	Seal Number	225	AN	2/15

F9 Segment: Origin

Indicates the origin of the shipment, the point from which it is shipped. The spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9LEMONT*IL**

Ref. Des.	Name	Data Element	Attributes	
F902	Origin Station	19	AN	2/30
F903	State or Province Code	156	ID	2/2

D9 Segment: Destination

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. The spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**EDMONTON*AB

Ref. Des.	Name	Data Element	Attributes	
D902	Destination Station	19	AN	2/30
D903	State or Province Code	156	ID	2/2

N1 Segment: Name

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are repeated for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*LEMONT*IL*12345*US
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*XQ*CANADIAN BROKER CO
N3*12 NORTH ST
N4*FORT FRANCES*ON*R2T1U4*CA

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee) (PF = Payer of Freight) (XQ=Canadian customs broker)	98	ID	2/3
N102	Name	93	AN	1/35

N3 Segment: Address

Ref. Des.	Name	Data Element	Attributes	
N301	Address Information	166	AN	1/30

N4 Segment: City

Ref. Des.	Name	Data Element	Attributes	
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3

**For North American countries, use the ISO-3166 Alpha-2 character code.

PER Segment: Administrative Communications Contact

PER*IC*CONTACT NAME*TE*123-123-1234*EM*JOHNDOE@GENCAR.COM

Ref. Des.	Name	Data Element	Attributes	
PER01	Contact function code (IC = Information contact)	366	ID	2/2
PER02	Name	93	AN	1/35
PER03	Communication number qualifier (TE=telephone)	365	ID	2/2
PER04	Communication number	364	AN	1/80
PER05	Communication number qualifier (EM=email address)	365	ID	2/2
PER06	Communication number	364	AN	1/80

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S

Ref. Des.	Name	Data Element	Attributes	
R201	Standard Carrier Alpha Code (SCAC)	140	ID	2/4
R202	Routing Sequence Code	133	ID	1/2
	(S = Origin Carrier, Shipper's Routing (Rail))			
R203	Junction Name	19	AN	2/30
	(Contains R260 junction)			

**When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Assigned Number

LX*1

Ref. Des.	Name	Data Element	Attributes	
LX01	Assigned Number	554	N0	1/6
	(Number assigned for differentiation within a transaction set)			

L5 Segment: Commodity Description

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*PRINTING PAPER*2621345*T

Ref. Des.	Name	Data Element	Attributes	
L501	Line Number	213	N0	1/6
L502	Commodity Description	79	AN	1/50
L503	Commodity Code	22	AN	1/30
	(7 digit Standard Transportation Commodity Code (STCC))			
L504	Commodity Code Qualifier	23	ID	1/1
	(T = Standard Transportation Commodity Code (STCC))			

L0 Segment: Line Item, Quantity and Weight

L0*1*213360*N***24*ROL**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier (N = Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (ROL=rolls)	211	ID	3/3

MEA Segment: Measurements

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

MEA*AI*VOL*250.6041*CR*15**
MEAVWT*0.7167*KC***15**

Ref. Des.	Name	Data Element	Attributes	
MEA01	Measurement Reference ID Code (AI = Net Compliance Total)	737	ID	2/2
MEA02	Measurement Qualifier (VOL = volume) (VWT = volume weight)	738	ID	1/3
MEA03	Measurement Value	739	R	1/28
MEA04	Unit or Basis for measurement code (CR = cubic meters) (KC = kilograms per cubic meter)	355	ID	2/2
MEA07	Measurement significance code (15 = Standard temperature and pressure)	935	ID	2/2

SE Segment: Transaction Set Trailer

SE*36*988260001

Ref. Des.	Name	Data Element	Attributes	
SE01	Number of Included Segments (Includes ST and SE segments)	96	N0	1/10
SE02	Transaction Set Control Number (Repeated from ST segment ST02)	329	AN	4/9

GE Segment: Functional Group Trailer

GE*1*98826

Ref. Des.	Name	Data Element	Attributes	
GE01	Number of Transaction Sets Included	97	N0	1/6
GE02	Group Control Number (Repeated from GS segment GS06)	28	N0	1/9

IEA Segment: Interchange Control Trailer

IEA*1*006298413

Ref. Des.	Name	Data Element	Attributes	
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9

Reciprocity of documentation

In general, regulated commodities in the US are also regulated in Canada and vice versa. Most of these commodities can ship under the documentation requirements of the origin country. There are, however, exceptions. As a shipper you are responsible for ensuring that your shipment is documented under the requirements of CFR49 (US regulations) and Transportation of Dangerous Goods (TDG) regulations (Canada).

Notable exceptions are Asphalt (regulated in US), Poison Inhalation Hazard (requires Canadian documentation), Waste products, and Emergency Response Plan information.

CN has an expert team who can help you if you have specific questions about how to document your shipment.

Additional items required for regulated shipments:
1. All telephone numbers must be available in Canada, or a Canadian number must be provided.
2. Emergency Response Plan numbers and activation phone numbers (valid in Canadian locations)

Customs Disclosure

Because this is an international shipment, two requirements need to be met:
3. US export requirements
4. Canadian Import requirements

US Export Requirements

All export shipments from the US must have one of the following three numbers:

- Automated Export System (AES) Internal Transaction Number (ITN)
- AES Export Information Code Exemption Number
- AES Post Departure Filer number

Canadian Import Requirements

All imported shipments into Canada must have:

- Canadian Broker, who will clear the shipment.
- Country of Origin
- Product Harmonized Code

Canadian National Railway - Electronic Commerce
Hazardous USA to Canada EDI 404 (Rail Bill of Lading) Requirements

CN is currently using the X12 Standard Version/Release 8030/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on traffic of hazardous material from a domestic United States origin to a Canadian destination.

EDI 404 with mandatory transborder data highlighted in bold red.

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ISA*00*        *00*        *ZZ*GENERIC       *02*CN          *230928*1454*U*00803*000054913*0*P*^
GS*SR*GENERIC*CN*20230928*1454*0092*X*008030
ST*404*00920001
BX*00*R*PP**CN*L*B*N
BNX*S**S
M3*R*20230928*1336*ET
N9*BM*1257**20230928*1336
N9*HS*280610
N9*ITN*20020421123456
N9*CEN*NOEEI 30.36
N7*CGTX*12345*213360*N*******RR
M7*12345
F9**LEMONT*IL
D9**EDMONTON*AB
N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*LEMONT*IL*12345*US
PER*IC*JOHN DOE*TE*1231231234*EM*JOHNDOE@GENCAR.COM
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*XQ*CANADIAN BROKER CO
N3*12 NORTH ST
N4*FORT FRANCES*ON*R2T1U4*CA
R2*CN*S
LX*1
L5*1*HYDROCHLORIC ACID*4930228*T
L0*1***213360*N***1*TKR
MEA*AI*VOL*250.6041*CR***15
MEA**VWT*0.7167*KC***15
X1*******US**I*1*24000**1P
LS*LH1
LH1*TK*1*UN1789**4914040*LB*213360***II
LH2*8*P
LH3*HYDROCHLORIC ACID*D
LFH*HZC*(HYDROCHLORIC ACID)
LH4***II
LE*LH1
PER*CN*offeror company name or contract number*TE*321*321*4321
PER*HM*offeror company name or contract number*TE*123-123-1234
LH6*JOHN DOE
SE*42*00920001
GE*1*0092
IEA*1*000054913
```

BX Segment: General Shipment Information

Indicates the purpose, payment method, carrier, and other information that applies to this transaction.

BX*00*R*PP*1257*CN*L*B*N

Ref. Des.	Name	Data Element	Attributes	
BX01	Transaction Set Purpose Code (00=Original)	353	ID	2/2
BX02	Transportation Method/Type Code (R=Rail)	91	ID	1/2
BX03	Shipment Method of Payment (PP=Prepaid)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN=CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L=Pounds)	188	ID	1/1
BX07	Shipment Qualifier (B=Bill of Lading for Individual Shipment)	147	ID	1/1
BX08	Section Seven Code (N=not in effect)	226	ID	1/1

BNX Segment: Rail Shipment Information

Identifies the weight requirements and the type of shipment.

BNX*RS**

Ref. Des.	Name	Data Element	Attributes	
BNX01	Shipment Weight Code (S = Shipper Certified Scale Weight)	460	ID	1/1
BNX03	Billing Code (S = Single Shipment Billing)	11	ID	1/1

M3 Segment: Release

Indicates whether shipment is to be released for movement when the transmission is received or will be released at a future time.

M3*R*20230928*1336

Ref. Des.	Name	Data Element	Attributes	
M301	Release Code (R = Release with Shipment Information)	132	ID	1/1
M302	Release Date (CCYYMMDD)	373	DT	8/8
M303	Release Time (HHMM, 24 hour clock 0001-2359)	337	TM	4/6

N9 Segment: Reference Number

Allows Reference Numbers to be sent to CN. At least one N9 containing a Bill of Lading number must be included. This number will be included on all other documents such as Freight Invoice and Remittance/Payment.

N9*BM*125720230928*1336**
N9*HS*280610
N9*ITN*20020421123456
N9*CEN*NOEEI 30.36

Ref. Des.	Name	Data Element	Attributes	
N901	Reference Number Qualifier (BM = Bill of Lading number) (HS = product harmonized code) (ITN=Census Internal Transaction number) (CEN=US Census Exemption number)	128	ID	2/3
N902	Reference Number (Max 15 characters for B/L # (BM))	127	AN	1/30
N904	Date (CCYYMMDD, required for B/L (BM))	373	DT	8/8
N905	Time (HHMM, 24-hour clock 0001-2359 or HHMMSS or HHMMSSD or HHMMSSDD H=hours 00-23 M=minutes 00-59 S=seconds 00-59 DD=decimal seconds in tenths and hundredths 00-99)	337	TM	4/8

N7 Segment: Equipment Details

N7*CGTX*12345*213360*N*****RR**

Ref. Des.	Name	Data Element	Attributes	
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/15
N703	Weight	81	R	1/10
N704	Weight Qualifier (N = Net Weight)	187	ID	1/2
N711	Equipment Description Code (RR = Railcar}	40	ID	2/2

M7 Segment: Seal Numbers

M7*12345

Ref. Des.	Name	Data Element	Attributes	
M701	Seal Number	225	AN	2/15

F9 Segment: Origin

Indicates the origin of the shipment, the point from which it is shipped. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

F9LEMONT*IL**

Ref. Des.	Name	Data Element	Attributes	
F902	Origin Station	19	AN	2/30
F903	State or Province Code	156	ID	2/2

D9 Segment: Destination

Indicates the destination of the shipment, the point at which it will be unloaded or where the transportation responsibility reverts to the consignee. Spelling should be in accordance with that listed in the Standard Point Location Code (SPLC) standard available from the National Motor Freight Tariff Association (USA) or the National Transportation Agency (Canada). CN can provide spellings for your stations.

D9**EDMONTON*AB

Ref. Des.	Name	Data Element	Attributes	
D902	Destination Station	19	AN	2/30
D903	State or Province Code	156	ID	2/2

N1 Segment: Name

Associated to the N3 and N4 segments below. N1, N3 and N4 segments are repeated for the Consignee and any other Additional Parties to the shipment.

N1*SH*GENERIC CARLOAD INC
N3*123 MAIN ROAD
N4*LEMONT*IL*12345*US
N1*CN*GENERIC CONSIGNEE CO
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*PF*FREIGHT INVOICE PAYOR
N3*12 SMITH STREET
N4*EDMONTON*AB*T5G 3E4*CA
N1*XQ*CANADIAN BROKER CO
N3*12 NORTH ST
N4*FORT FRANCES*ON*R2T1U4*CA

Ref. Des.	Name	Data Element	Attributes	
N101	Entity Identifier Code (SH = Shipper) (CN = Consignee) (PF = payer of freight) (XQ=Canadian Customs broker)	98	ID	2/3
N102	Name	93	AN	1/35

N3 Segment: Address

Ref. Des.	Name	Data Element	Attributes	
N301	Address Information	166	AN	1/30

N4 Segment: City

Ref. Des.	Name	Data Element	Attributes	
N401	City Name	19	AN	2/30
N402	State or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/15
N404	Country Code	26	ID	2/3

**For North American countries, use the ISO-3166 Alpha-2 character code.

PER Segment: Administrative Communications Contact

Specifies the contact particulars of the party named in the N1 segment.

PER*IC*JOHN DOE*TE*1231231234*EM*JOHNDOE@GENCON.COM

Ref. Des.	Name	Data Element	Attributes	
PER01	Contact function code (IC = Information contact)	366	ID	2/2
PER02	Name	93	AN	1/35
PER03	Communication number qualifier (TE=telephone)	365	ID	2/2
PER04	Communication number	364	AN	1/80
PER05	Communication number qualifier (EM=email address)	365	ID	2/2
PER06	Communication number	364	AN	1/80

Note: Information Contact (IC) information is required for the Shipper (N101=SH) to provide contact for the person submitting the EDI404, and must include both a telephone number (TE) and an email address (EM)

The value entered in the PER02/03 should be the preferred method of contact.

R2 Segment: Route Information

One R2 segment for each railroad in the route. CN can provide route information for your shipments (i.e.: Railroad SCAC's and junctions).

R2*CN*S

Ref. Des.	Name	Data Element	Attributes	
R201	Standard Carrier Alpha Code (SCAC)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail))	133	ID	1/2
R203	Junction Name (Contains R260 junction)	19	AN	2/30

**When multiple iterations of the R2 segment are present, the R203 is required on each, except for the final.

LX Segment: Assigned Number

LX*1

Ref. Des.	Name	Data Element	Attributes	
LX01	Assigned Number (Number assigned for differentiation within a transaction set)	554	N0	1/6

L5 Segment: Commodity Description

CN can provide Standard Transportation Commodity Codes (STCC) for your commodities. The commodity code is required only on the first L5 segment. Additional L5 segments can be used to provide additional description of lading.

L5*1*HYDROCHLORIC ACID*4930228*T

Ref. Des.	Name	Data Element	Attributes	
L501	Line Number	213	N0	1/6
L502	Commodity Description	79	AN	1/50
L503	Commodity Code (7 digit Standard Transportation Commodity Code (STCC))	22	AN	1/30
L504	Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC))	23	ID	1/1

L0 Segment: Line Item, Quantity and Weight

Provides the shipment quantity and weight.

L0*1*213360*N***1*TKR**

Ref. Des.	Name	Data Element	Attributes	
L001	Lading Line Item Number	213	N0	1/6
L004	Weight	81	R	1/10
L005	Weight Qualifier (N=Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (TKR = Tank Car)	211	ID	3/3

MEA Segment: Measurements

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights.

MEA*AI*VOL*250.6041*CR*15**
MEAVWT*0.7167*KC***15**

Ref. Des.	Name	Data Element	Attributes	
MEA01	Measurement Reference ID Code (AI = Net Compliance Total)	737	ID	2/2
MEA02	Measurement Qualifier (VOL = volume) (VWT = volume weight)	738	ID	1/3
MEA03	Measurement Value	739	R	1/28
MEA04	Unit or Basis for measurement code (CR = cubic meters) (KC = kilograms per cubic meter)	355	ID	2/2
MEA07	Measurement significance code (15 = Standard temperature and pressure)	935	ID	2/2

LS Segment: Loop Header

Identifies the start of the Hazmat documentation loop.

LS*LH1

Ref. Des.	Name	Data Element	Attributes	
LS01	Loop Identifier Code	447	AN	1/6

LH1 Segment: Hazardous Identification Information

LH1*TK*1*UN17894930228*LB*213360***II**

Ref. Des.	Name	Data Element	Attributes	
LH101	Unit or Basis for Measurement Code (TK = Tank)	355	ID	2/2
LH102	Lading Quantity	80	N0	1/7
LH103	UN or NA Identification Code	277	ID	6/6
LH105	Commodity Code (Standard Transportation Commodity Code (STCC))	22	AN	1/30
LH106	Unit or Basis for Measurement Code (LB = Pound)	355	ID	2/2
LH107	Quantity	380	R	1/15
LH110	Packing Group Code	254	ID	1/3

LH2 Segment: Hazardous Classification Information

Provides classification information.

LH2*8*P

Ref. Des.	Name	Data Element	Attributes	
LH201	Hazardous Classification	215	ID	1/30
LH202	Hazardous Class Qualifier (P=primary)	983	ID	1/1

LH3 Segment: Hazardous Material Shipping Name Information

Provides the Proper Shipping Name as required by the CFR49 regulations.

LH3*HYDROCHLORIC ACID*D

Ref. Des.	Name	Data Element	Attributes	
LH301	Hazardous Materials Shipping Name	224	AN	1/25
LH302	Hazardous Materials Shipping Name Qualifier (D=USA Shipping Name)	984	ID	1/1

LFH Segment: Additional Information

Provides additional information related to the shipment of the regulated product.

LFH*HZC*(HYDROCHLORIC ACID)

Ref. Des.	Name	Data Element	Attributes	
LFH01	Hazardous Material Information Qualifier (HZC= hazardous substance constituents)	808	ID	3/3
LFH02	Hazardous Material Shipment Information	809	AN	1/25
LFH03	Hazardous Material Shipment Information	809	AN	1/25

LH4 Segment: Canadian Dangerous Requirements

LH4***II

Ref. Des.	Name	Data Element	Attributes	
LH401	Emergency Plan Number	238	AN	1/12
LH402	Communication Number	364	AN	1/25
LH403	Packing Group	254	ID	1/3

LE Segment: Loop Trailer

Closes the LS/LH1 loop.

LE*LH1

Ref. Des.	Name	Data Element	Attributes	
LE01	Loop Identifier Code	447	AN	1/6

PER Segment: Administrative Communications Contact

PER*CN*offeror company name or contract number*TE*321*321*4321
PER*HM*offeror company name or contract number*TE*123-123-1234

Ref. Des.	Name	Data Element	Attributes	

PER01   Contact Function Code   366   ID   2/2
        (HM=primary 24-hour Hazardous Material Contact emergency phone number)
        (CN=Canadian Hazardous Material Contact 24-hour emergency phone number)

PER02   Name   93   AN   1/35
        If the emergency response telephone number shown in PER04 is an emergency provider
        (e.g Chemtrec), the PER02 must identify the company(offeror) by name or contract number.

PER03   Communication Number Qualifier   365   ID   2/2
        (TE=Telephone)
PER04   Communication Number   364   AN   1/80

LH6 Segment: Hazardous Certification

Provides the name of the person who prepared, and certifies to its accuracy, the documentation of the regulated commodity.

LH6*JOHN DOE

Ref. Des.	Name	Data Element	Attributes	

LH601   Name   93   AN   1/60