



# **Implementation Guide Rail Carrier Shipment Information**

## **EDI 404**

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

**Version 8050**

## **Connection to CN**

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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**

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The **EDI Onboarding team** email address is [EDIMGR@cn.ca](mailto:EDIMGR@cn.ca). You can also visit us at [www.cn.ca](http://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 dangerous goods from a Canadian origin to a Canadian destination.

**Canadian National Railway - Electronic Commerce  
Canada 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 8050/RAIL

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

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*250128\*1339\*U\*00805\*006298413\*0\*P\*>  
GS\*SR\*GENERIC\*CN\*20250128\*1336\*98826\*X\*008050  
ST\*404\*988260001  
BX\*00\*R\*PP\*1257\*CN\*K\*B  
BNX\*S\*\*S  
M3\*R\*20250128\*1336\*ET  
N9\*BM\*1257\*\*20250128\*1336  
N7\*CN\*123456\*96981\*N\*\*\*\*\*RR  
M7\*12345  
F9\*\*WATSON\*SK  
D9\*\*VANCOUVER\*BC  
N1\*SH\*GENERIC CARLOAD INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@GENCAR.COM  
N1\*CN\*GENERIC CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA  
N1\*PF\*GENERIC CARLOAD INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
R2\*CN\*S  
LX\*1  
L5\*1\*WALLBOARD\*3275440\*T  
L0\*1\*\*\*96981\*N\*\*\*100\*PCS  
MEA\*AI\*VOL\*250.6041\*CR\*\*\*15  
MEA\*\*VWT\*0.7167\*KC\*\*\*15  
SE\*30\*988260001  
GE\*1\*98826  
IEA\*1\*006298413

## ISA Segment: Interchange Control Header

ISA\*00\*      \*00\*      \*ZZ\*GENERIC      \*02\*CN      \*250128\*1339\*U\*00805\*006298413\*0\*P\*>

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

**GS Segment: Functional Group Header**

**GS\*SR\*GENERIC\*CN\*20250128\*1336\*98826\*X\*008050**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| GS01         | Functional Identifier Code<br>(SR = Rail Carrier Shipment Information)            | 479          | ID 2/2     |
| GS02         | Application Sender's Code<br>(Customer's sender ID)                               | 142          | AN 2/15    |
| GS03         | Application Receiver's Code<br>(CN = Canadian National)                           | 124          | AN 2/15    |
| GS04         | Date<br>(YYYYMMDD)  | 373          | DT 8/8     |
| GS05         | Time<br>(HHMMSS)  | 337          | TM 4/8     |
| GS06         | Group Control Number<br>(Assigned number originated and maintained by the sender) | 28           | N0 1/9     |
| GS07         | Responsible Agency Code<br>(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.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| ST01         | Transaction Set Identifier Code<br>(404 = Rail Carrier Shipment Information (Bill of Lading)) | 143          | ID 3/3     |
| ST02         | Transaction Set Control Number<br>(Sequential control number generated by Customer)           | 329          | AN 4/9     |

**BX Segment: General Shipment Information****BX\*00\*R\*PP\*1257\*CN\*K\*B**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| BX01         | Transaction Set Purpose Code<br>(00 = Original)                    | 353          | ID 2/2     |
| BX02         | Transportation Method/Type Code<br>(R = Rail)                      | 91           | ID 1/2     |
| BX03         | Shipment Method of Payment<br>(PP = Prepaid)                       | 146          | ID 2/2     |
| BX04         | Shipment ID Number<br>(1257)                                       | 145          | AN 1/30    |
| BX05         | Standard Carrier Alpha Code<br>(CN = CN Rail)                      | 140          | ID 2/4     |
| BX06         | Weight Unit Code<br>(L = Pounds)<br>(K= Kilograms)                 | 188          | ID 1/1     |
| BX07         | Shipment Qualifier<br>(B = Bill of Lading for Individual Shipment) | 147          | ID 1/1     |

**BNX Segment: Rail Shipment Information****BNX\*S\*\*S**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| BNX01        | Shipment Weight Code<br>(S = Shipper Certified Scale Weight) | 460          | ID 1/1     |
| BNX03        | Billing Code<br>(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\*20250128\*1336**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| M301         | Release Code<br>(R = Release with Shipment Information)   | 132          | ID 1/1     |
| M302         | Release Date<br>(CCYYMMDD)  | 373          | DT 8/8     |
| M303         | Release Time<br>(HHMM, 24-hour clock 0001-2359 or<br>HHMMSS or HHMMSSD or HHMMSSDD<br>H=hours 00-23 M=minutes 00-59 S=seconds 00-59<br>DD=decimal seconds in tenths and hundredths 00-99) | 337          | TM 4/8     |

### **N9 Segment: Extended Reference Information**

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\*1257\*\*20250128\*1336**

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



**N7 Segment: Equipment Details**

**N7\*CN\*123456\*96981\*N\*\*\*\*\*RR**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| N701         | Equipment Initial                            | 206          | AN 2/4     |
| N702         | Equipment Number                             | 207          | AN 1/15    |
| N703         | Weight                                       | 81           | R 1/8      |
| N704         | Weight Qualifier<br>(N = Net Weight)         | 187          | ID 1/2     |
| N711         | Equipment Description Code<br>(RR = Railcar) | 40           | ID 2/2     |

**M7 Segment: Seal Numbers**

**M7\*12345**

| Ref.<br>Des. | Name        | Data Element | Attributes |
|--------------|-------------|--------------|------------|
| M701         | Seal Number | 225          | AN 2/15    |

**F9 Segment: Origin Station**

Indicates the origin of the shipment, the point from where 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.

**F9\*\*WATSON\*SK**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| F902         | Origin Station         | 19           | AN 2/19    |
| F903         | State or Province Code | 156          | ID 2/2     |

### D9 Segment: Destination Station

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\*\*VANCOUVER\*BC**

| Ref.<br>Des. | Name                   | Data Element | Attributes |
|--------------|------------------------|--------------|------------|
| D902         | Destination Station    | 19           | AN 2/19    |
| D903         | State or Province Code | 156          | ID 2/2     |

### N1 Segment: Party Identification

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

**N1\*SH\*GENERIC CARLOAD INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
N1\*CN\*GENERIC CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA  
N1\*PF\*GENERIC CARLOAD INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA**

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| N101         | Entity Identifier Code<br>(SH = Shipper)<br>(CN = Consignee)<br>(PF = Payer of Freight) | 98           | ID 2/3     |
| N102         | Name  | 93           | AN 1/35    |

### N3 Segment: Party Location

| Ref.<br>Des. | Name                | Data Element | Attributes |
|--------------|---------------------|--------------|------------|
| N301         | Address Information | 166          | AN 1/30    |

### N4 Segment: Geographic Location

| Ref.<br>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.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| PER01        | Contact function code<br>(IC = Information contact)  | 366          | ID         | 2/2  |
| PER02        | Name   | 93           | AN         | 1/35 |
| PER03        | Communication number qualifier<br>(TE=telephone)     | 365          | ID         | 2/2  |
| PER04        | Communication number                                 | 364          | AN         | 1/80 |
| PER05        | Communication number qualifier<br>(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.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| R201         | Standard Carrier Alpha Code (SCAC)<br>(CN = Canadian National)          | 140          | ID 2/4     |
| R202         | Routing Sequence Code<br>(S = Origin Carrier, Shipper's Routing (Rail)) | 133          | ID 1/2     |
| R203         | Junction Name<br>(Contains Rule 260 abbreviation only)                  | 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: Transaction Set Line Number**

### **LX\*1**

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

## **L5 Segment: Description, Marks, and Numbers**

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\*WALLBOARD\*3275440\*T**

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

### L0 Segment: Line Item - Quantity and Weight

**L0\*1\*\*\*96981\*N\*\*\*100\*PCS**

| Ref.<br>Des. | Name                                  | Data Element | Attributes |
|--------------|---------------------------------------|--------------|------------|
| L001         | Lading Line Item Number               | 213          | N0 1/6     |
| L004         | Weight                                | 81           | R 1/8      |
| L005         | Weight Qualifier<br>(N = Net Weight)  | 187          | ID 1/2     |
| L008         | Lading Quantity                       | 80           | N0 1/5     |
| L009         | Packaging Form Code<br>(PCS = pieces) | 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**

**MEA\*\*VWT\*0.7167\*KC\*\*\*15**

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

### SE Segment: Transaction Set Trailer

**SE\*30\*988260001**

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

**GE Segment: Functional Group Trailer**

**GE\*1\*98826**

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

**IEA Segment: Interchange Control Trailer**

**IEA\*1\*006298413**

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

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

CN is currently using the X12 Standard Version/Release 8050/RAIL

Sample EDI Transmission with required data for the EDI 404 Transaction Set on traffic of dangerous goods to a domestic Canadian destination.

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*250112\*1454\*U\*00805\*000054913\*0\*P\*^  
GS\*SR\*GENERIC\*CN\*20250112\*1454\*0092\*X\*008050  
ST\*404\*00920001  
BX\*00\*R\*PP\*1257\*CN\*L\*B  
BNX\*S\*\*S  
M3\*R\*20250112\*1454  
N9\*BM\*1257\*\*20250112\*1454  
N7\*CGTX\*12345\*96981\*N\*\*\*\*\*RR  
M7\*123456  
F9\*\*WATSON\*SK  
D9\*\*VANCOUVER\*BC  
N1\*SH\*HAZARDOUS SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234\*EM\*JOHNDOE@HAZSHIP.COM  
N1\*CN\*HAZARDOUS CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA  
N1\*PF\*FREIGHT INVOICE PAYOR  
N3\*123 MAIN STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA  
R2\*CN\*S\*\*\*\*R  
LX\*1  
L5\*1\*SODIUM CHLORATE\*4918723\*T  
L0\*1\*\*\*96981\*N\*\*\*1\*TKR  
LS\*LH1  
LH1\*TK\*1\*UN1495\*\*4918723\*KG\*96981  
LH2\*5.1\*P  
LH3\*SODIUM CHLORATE\*C  
LH4\*\*\*II  
PER\*HM\*offeror name or contract number\*TE\*1-613-996-6666  
N1\*SH\*HAZARDOUS SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0  
LE\*LH1  
LH6\*JOHN Q SHIPPER  
SE\*39\*00920001  
GE\*1\*0092  
IEA\*1\*000054913

**BX Segment: General Shipment Information****BX\*00\*R\*PP\*1257\*CN\*K\*B**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| BX01         | Transaction Set Purpose Code<br>(00 = Original)                    | 353          | ID 2/2     |
| BX02         | Transportation Method/Type Code<br>(R = Rail)                      | 91           | ID 1/2     |
| BX03         | Shipment Method of Payment<br>(PP = Prepaid)                       | 146          | ID 2/2     |
| BX04         | Shipment ID Number<br>(1257)                                       | 145          | AN 1/30    |
| BX05         | Standard Carrier Alpha Code<br>(CN = CN Rail)                      | 140          | ID 2/4     |
| BX06         | Weight Unit Code<br>(L = Pounds)<br>(K= Kilograms)                 | 188          | ID 1/1     |
| BX07         | Shipment Qualifier<br>(B = Bill of Lading for Individual Shipment) | 147          | ID 1/1     |

**BNX Segment: Rail Shipment Information****BNX\*S\*\*S**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| BNX01        | Shipment Weight Code<br>(S = Shipper Certified Scale Weight) | 460          | ID 1/1     |
| BNX03        | Billing Code<br>(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\*20250112\*0728**

| Ref.<br>Des. | Name  | Data Element | Attributes |     |
|--------------|---|--------------|------------|-----|
| M301         | Release Code<br>(R = Release with Shipment Information)   | 132          | ID         | 1/1 |
| M302         | Release Date<br>(CCYYMMDD)  | 373          | DT         | 8/8 |
| M303         | Release Time<br>(HHMM, 24-hour clock 0001-2359 or<br>HHMMSS or HHMMSSD or HHMMSSDD<br>H=hours 00-23 M=minutes 00-59 S=seconds 00-59<br>DD=decimal seconds in tenths and hundredths 00-99) | 337          | TM         | 4/8 |

### **N9 Segment: Extended Reference Information**

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\*1257\*\*20250112\*1454**

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

**N7 Segment: Equipment Details**

**N7\*CGTX\*12345\*96981\*N\*\*\*\*\*RR**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| N701         | Equipment Initial                            | 206          | AN         | 2/4  |
| N702         | Equipment Number                             | 207          | AN         | 1/15 |
| N703         | Weight                                       | 81           | R          | 1/8  |
| N704         | Weight Qualifier<br>(N = Net Weight)         | 187          | ID         | 1/2  |
| N711         | Equipment Description Code<br>(RR = Railcar) | 40           | ID         | 2/2  |

**M7 Segment: Seal Numbers**

**M7\*123456**

| Ref.<br>Des. | Name        | Data Element | Attributes |      |
|--------------|-------------|--------------|------------|------|
| M701         | Seal Number | 225          | AN         | 2/15 |

**F9 Segment: Origin Station**

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.

**F9\*\*WATSON\*SK**

| Ref.<br>Des. | Name                   | Data Element | Attributes |      |
|--------------|------------------------|--------------|------------|------|
| F902         | Origin Station         | 19           | AN         | 2/19 |
| F903         | State or Province Code | 156          | ID         | 2/2  |

### **D9 Segment: Destination Station**

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\*\*VANCOUVER\*BC**

| Ref.<br>Des. | Name                   | Data Element | Attributes |      |
|--------------|------------------------|--------------|------------|------|
| D902         | Destination Station    | 19           | AN         | 2/19 |
| D903         | State or Province Code | 156          | ID         | 2/2  |

### **N1 Segment: Party Identification**

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\*HAZARDOUS SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA  
N1\*CN\*HAZARDOUS CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA  
N1\*PF\*FREIGHT INVOICE PAYOR  
N3\*123 MAIN STREET  
N4\*VANCOUVER\*BC\*V5K 1P7\*CA**

| Ref.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| N101         | Entity Identifier Code<br>(SH = Shipper)<br>(CN = Consignee)<br>(PF = Payer of Freight) | 98           | ID         | 2/3  |
| N102         | Name  | 93           | AN         | 1/35 |

### **N3 Segment: Party Location**

| Ref.<br>Des. | Name                | Data Element | Attributes |      |
|--------------|---------------------|--------------|------------|------|
| N301         | Address Information | 166          | AN         | 1/30 |

### N4 Segment: Geographic Location

| Ref.<br>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@HAZSHIP.COM**

| Ref.<br>Des. | Name   | Data Element | Attributes |      |
|--------------|--|--------------|------------|------|
| PER01        | Contact function code<br>(IC = Information contact)  | 366          | ID         | 2/2  |
| PER02        | Name   | 93           | AN         | 1/35 |
| PER03        | Communication number qualifier<br>(TE=telephone)     | 365          | ID         | 2/2  |
| PER04        | Communication number                                 | 364          | AN         | 1/80 |
| PER05        | Communication number qualifier<br>(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.<br>Des. | Name  | Data Element | Attributes |      |
|--------------|---|--------------|------------|------|
| R201         | Standard Carrier Alpha Code (SCAC)<br>(CN = Canadian National)          | 140          | ID         | 2/4  |
| R202         | Routing Sequence Code<br>(S = Origin Carrier, Shipper's Routing (Rail)) | 133          | ID         | 1/2  |
| R203         | Junction Name<br>(Contains Rule 260 abbreviation only)                  | 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: Transaction Set Line Number

### **LX\*1**

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

## L5 Segment: Description, Marks, and Numbers

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\*SODIUM CHLORATE\*4918723\*T**

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

### L0 Segment: Line Item – Quantity and Weight

**L0\*1\*\*\*96981\*N\*\*\*1\*TKR**

| Ref.<br>Des. | Name                                  | Data Element | Attributes |
|--------------|---------------------------------------|--------------|------------|
| L001         | Lading Line Item Number               | 213          | N0 1/6     |
| L004         | Weight                                | 81           | R 1/8      |
| L005         | Weight Qualifier<br>(N = Net Weight)  | 187          | ID 1/2     |
| L008         | Lading Quantity                       | 80           | N0 1/5     |
| L009         | Packaging Form Code<br>(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**

**MEA\*\*VWT\*0.7167\*KC\*\*\*15**

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

### LS Segment: Loop Header

**LS\*LH1**

| Ref.<br>Des. | Name                 | Data Element | Attributes |
|--------------|----------------------|--------------|------------|
| LS01         | Loop Identifier Code | 447          | AN 1/6     |

### **LH1 Segment: Hazardous Identification Information**

**LH1\*TK\*1\*UN1495\*\*4918723\*KG\*96981\*\*\*II**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| LH101        | Unit or Basis for Measurement Code<br>(TK=Tank)                      | 355          | ID 2/2     |
| LH102        | Lading Quantity  | 80           | N0 1/5     |
| LH103        | UN or NA Identification Code   | 277          | ID 6/6     |
| LH105        | Commodity Code   | 22           | AN 1/30    |
| LH106        | Unit or Basis for Measurement Code<br>(LB=Pound)<br>(KG = Kilograms) | 355          | ID 2/2     |
| LH107        | Quantity   | 380          | R 1/15     |
| LH110        | Packing Group Code   | 254          | ID 1/3     |

### **LH2 Segment: Hazardous Classification Information**

**LH2\*5.1\*P**

| Ref.<br>Des. | Name                                     | Data Element | Attributes |
|--------------|--|--------------|------------|
| LH201        | Hazardous Classification                 | 215          | ID 1/30    |
| LH202        | Hazardous Class Qualifier<br>(P=Primary) | 983          | ID 1/1     |

### **LH3 Segment: Hazardous Material Shipping Name Information**

**LH3\*SODIUM CHLORATE\*C**

| Ref.<br>Des. | Name   | Data Element | Attributes |
|--------------|--|--------------|------------|
| LH301        | Hazardous Material Shipping Name   | 224          | AN 1/25    |
| LH302        | Hazardous Material Shipping<br>Name Qualifier<br>Qualifier indicating the source (regulatory) of the proper shipping name.<br>(C = Canadian Shipping Name) | 984          | ID 1/1     |

## LH4 Segment: Canadian Dangerous Requirements

### LH4\*\*\*II

| Ref.<br>Des. | Name          | Data Element | Attributes |
|--------------|---------------|--------------|------------|
| LH403        | Packing Group | 254          | ID 1/3     |

## PER Segment: Administrative Communications Contact

### PER\*HM\*offeror name or contract number\*TE\*1-613-996-6666

| Ref.<br>Des. | Name  | Data Element | Attributes |
|--------------|---|--------------|------------|
| PER01        | Contact Function Code<br>(HM=primary 24-hour Hazardous Material Contact emergency phone number)   | 366          | ID 2/2     |
| PER02        | Name<br>If the emergency response telephone number shown in PER04 is an emergency provider (e.g., Canutec), the PER02 must identify the company (offeror) by name or contract number. | 93           | AN 1/35    |
| PER03        | Communication Number Qualifier<br>(TE=Telephone)  | 365          | ID 2/2     |
| PER04        | Communication Number  | 364          | AN 1/80    |

## N1 segment: Party Identification

Within the LH1 Loop

Used to identify the **Canadian** 'consignor' ('SH' shipper or 'CN' consignee) as required by Transport Canada regulations (TDG 3.5 (1)(a)).

**N1\*SH\*HAZARDOUS SHIPPER INC  
N3\*123 FIRST ROAD  
N4\*WATSON\*SK\*S0K 4V0\*CA**

| Ref.<br>Des. | Name                                     | Data Element | Attributes |
|--------------|--|--------------|------------|
| N101         | Entity Identifier Code<br>(SH = Shipper) | 98           | ID 2/3     |
| N102         | Name                                     | 93           | AN 1/35    |



**N3 Segment: Party Location**

| Ref.<br>Des. | Name                | Data Element | Attributes |
|--------------|---------------------|--------------|------------|
| N301         | Address Information | 166          | AN 1/30    |

**N4 Segment: Geographic Location**

| Ref.<br>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     |

**LE Segment: Loop Trailer**

**LE\*LH1**

| Ref.<br>Des. | Name                 | Data Element | Attributes |
|--------------|----------------------|--------------|------------|
| LE01         | Loop Identifier Code | 447          | AN 1/6     |

**LH6 Segment: Hazardous Certification**

Provides the name of the person who prepared, and certifies to its accuracy, the documentation of the regulated commodity as required by Transport Canada regulations (TDG 3.6.1).

The certification must be made by an individual who is the consignor or by an individual acting on behalf of the consignor and must set out that individual's name.

**LH6\*JOHN Q SHIPPER**

| Ref.<br>Des. | Name | Data Element | Attributes |
|--------------|------|--------------|------------|
| LH601        | Name | 93           | AN 1/35    |