



Bill of Lading  
404  
EDI Mapping

Hazardous Shipper Inc

Customer eBusiness

(800) 361-0198

eBusiness@cn.ca

Last Updated 2007/12/10

The enclosed documentation covers information required to handle carload traffic that includes the Transportation of Dangerous Goods for domestic or cross-border destinations.

**Hazardous Waste / Hazardous Recyclable Materials bill of lading:**  
**See additional requirements on pages 25-29.**

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

CN is currently using the X12 Standard Version/Release 4050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on Dangerous Goods traffic destined to a domestic destination.

ISA\*00\*        \*00\*        \*ZZ\*GENERIC        \*02\*CN        \*020725\*145  
4\*U\*00405\*000054913\*0\*P\*^  
GS\*SR\*HAZARDSHIPPER\*CN\*20000207\*0728\*0092\*X\*004050  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*L\*B  
BNX\*A\*\*S  
M3\*R\*20000207\*0728  
N9\*BM\*495033230\*\*20000207\*0728  
N9\*WM\*1234A  
N7\*CN\*123456\*213360\*N\*\*\*\*\*RR  
F9\*\*WATSON\*SK  
D9\*\*VANCOUVER\*BC  
N1\*SH\*HAZARDOUS SHIPPER INC  
N3\*123 ROAD  
N4\*WATSON\*SK  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234  
N1\*CN\*HAZARDOUS CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC  
R2\*CN\*S\*\*\*\*R  
LX\*1  
L5\*1\*SODIUM CHLORATE\*4918723\*T  
L0\*1\*\*\*213360\*N\*\*\*1\*CLD  
LS\*LH1  
LH1\*C4\*1\*UN1495\*\*4918723\*LB\*213360  
LH2\*5.1\*P\*PLACARDED CLASS 5.1  
LH3\*SODIUM CHLORATE\*C  
LH4\*\*\*II  
PER\*CN\*name\*TE\*123-123-1234  
LE\*LH1  
SE\*28\*00920001  
GE\*1\*0092  
IEA\*1\*000054913

**ISA Segment: Interchange Control Header**

**ISA\*00\*      \*00\*      \*ZZ\*GENERIC      \*02\*CN      \*020725\*145  
4\*U\*00405\*00054913\*0\*P\*^**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (fill out with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (RR SCAC- 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 00405)	I11	ID	5/5
ISA13	Interchange Control Number (number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none required, 1= required)	I13	ID	1/1
ISA15	Usage Indicator (P = Production, T = Test)	I14	ID	1/1
ISA16	Component Element Separator	I15		1/1

**GS Segment: Functional Group Header**

**GS\*SR\*HAZARDSHIPPER\*CN\*20000207\*0728\*0092\*X\*004050**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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 (CCYYMMDD)	373	DT	8/8
GS05	Time (HHMM)	337	TM	4/6
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 (CN is using version 004050 of the X12 EDI Standards)	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\*00920001**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*\*CN\*L\*B***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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, CC = Collect)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds, K= Kilograms)	188	ID	1/1
BX07	Shipment Qualifier (B = Bill of Lading for Individual Shipment)	147	ID	1/1

**BNX Segment: Rail Shipment Information**

***BNX\*A\*\*S***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (A = Wgt Agreement Number) (N = Per Car Charge)	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 through other means.

***M3\*R\*20000207\*0728***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*495033230\*\*20000207\*0728**

**N9\*WM\*1234A**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading number) (WM = Weight Agreement Number (PO = Purchase order Number)	128	ID	2/2
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)	337	TM	4/6

**N7 Segment: Equipment Details**

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

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/10
N703	Weight	81	R	1/8
N704	Weight Qualifier (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
N711	Equipment Description Code (RR = Railcar}	40	ID	2/2

**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.

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

Data Seq	Element Name	Data Element	Data Type	Characters Min/Max
F902	Origin Station	101	AN	2/19
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\*\*VANCOUVER\*BC***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station	300	AN	2/19
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\*HAZARDOUS SHIPPER INC  
 N3\*123 ROAD  
 N4\*WATSON\*SK  
 N1\*CN\*HAZARDOUS CONSIGNEE CO  
 N3\*12 SMITH STREET  
 N4\*VANCOUVER\*BC**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (C1 = Care of Party)	98	ID	2/2
N102	Name	93	AN	1/27

**N3 Segment: Address**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

**N4 Segment: City**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	State Or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

**R2 Segment: Route Information**

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

***R2\*CN\*S\*\*\*\*R***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail))	133	ID	1/2
R206	Transportation Method/Type Code (R = Rail)	91	ID	1/2

**LX Segment: Assigned Number**

***LX\*1***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*SODIUM CHLORATE\*4918723\*T***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L501	Line Number	213	N0	1/3
L502	Commodity Description	79	AN	1/50
L503	Commodity Code (7 digit Standard Transportation Commodity Code (STCC)) (ie 4918723 = Sodium Chlorate)	22	AN	1/16
L504	Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC))	23	ID	1/1

**L0 Segment: Line Item, Quantity and Weight**

***L0\*1\*\*\*213360\*N\*\*\*1\*CLD***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L001	Lading Line Item Number	213	N0	1/3
L004	Weight	81	R	1/8
L005	Weight Qualifier (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (CLD = Carload)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

**LS Segment: Loop Header**

***LS\*LH1***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LS01	Loop Identifier Code	447	AN	1/4

**LH1 Segment: Hazardous Identification Information**

***LH1\*C4\*1\*UN1495\*\*4918723\*LB\*213300\*\*\*II***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LH101	Unit or Basis For Measurement Code (TK=Tank C4=Carload)	355	ID	2/2
LH102	Lading Quantity	80	NO	1/7
LH103	UN or NA Identification Code	277	ID	6/6
LH105	Commodity Code	22	AN	1/16
LH106	Unit or Basis for Measurement Code (LB=Pound)			
LH107	Quantity	380	R	1/15
LH110	Packing Group Code	254	ID	1/3

**LH2 Segment: Hazardous Classification Information**

***LH2\*5.1\*P\*PLACARDED CLASS 5.1***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LH201	Hazardous Classification	215	ID	2/30
LH202	Hazardous Class Qualifier (P=Primary)	983	ID	1/1
LH203	Hazardous Placard Notation	218	ID	14/40
LH204	Hazardous Endorsement	222	ID	4/25
LH205	Reportable Quantity Code	759	ID	2/2

**LH3 Segment: Hazardous Material Shipping Name**

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

Element Seg	Element Description Characters	Data Element	Data Type	Data Min/Max
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qualifier Qualifier indicating the source (regulatory) of the proper shipping name. C = Canadian Shipping Name D = USA Shipping Name	984	ID	1/1

**LH04 Segment: Canadian Dangerous Requirements**

***LH4\*\*\*II***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LH401	Emergency Plan Number	238	AN	1/12
LH402	Communication Number	364	AN	1/25
LH403	Packing Group	254	ID	

**PER Segment: Hazardous Communications Contact**

***PER\*CN\*name\*TE\*123-123-1234***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
PER01	Contact Function Code (CN=Canadian Hazardous Material Contact Qualifier) (HM=USA Hazardous Material Contact Qualifier)	366	ID	2/2
PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/25

**LE Segments: Loop Trailer**

***LE\*LH1***

Element Seq	Element Description	Data Element	Data Type	Characters Min/Max
LE01	Loop Identifier Code	447	AN	1/4

**SE Segment: Transaction Set Trailer**

***SE\*28\*00920001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*0092***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*000054913***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9

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

CN is currently using the X12 Standard Version/Release 4050/RAIL

Sample EDI Transmission with required data for the 404 Transaction Set on Dangerous Goods traffic destined to the United States.

ISA\*00\*        \*00\*        \*ZZ\*GENERIC        \*02\*CN        \*020725\*145  
4\*U\*00405\*000054913\*0\*P\*^  
GS\*SR\*HAZARDSHIPPER\*CN\*20000207\*0728\*0092\*X\*004050  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*L\*B\*\*\*\*\*30\*\*2  
BNX\*A\*\*S  
M3\*R\*20000207\*0728  
N9\*BM\*495033230\*\*20000207\*0728  
N9\*WM\*1234A  
N7\*CN\*123456\*213360\*N\*\*\*\*\*RR  
F9\*\*WATSON\*SK  
D9\*\*GROOS\*MI  
N1\*SH\*HAZARDOUS SHIPPER INC  
N3\*123 ROAD  
N4\*WATSON\*SK  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234  
N1\*CN\*HAZARDOUS CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*GROOS\*MI  
N1\*CB\*BROKER NAME  
R2\*CN\*S\*SUPER\*\*\*R  
R2\*WC\*1\*\*\*\*R  
LX\*1  
L5\*1\*SODIUM CHLORATE\*4918723\*T  
L0\*1\*\*\*213360\*N\*\*\*1\*CLD  
LS\*LH1  
LH1\*C4\*1\*UN1495\*\*4918723\*LB\*213360\*\*\*II  
LH2\*5.1\*P\*PLACARDED 5.1  
LH3\*SODIUM CHLORATE\*C  
LH4\*\*\*II  
LHT\*5.1  
PER\*CN\*name\*TE\*321\*321\*4321  
PER\*HM\*name\*TE\*123-123-1234  
LE\*LH1  
SE\*32\*00920001  
GE\*1\*0092  
IEA\*1\*000054913

**ISA Segment: Interchange Control Header**

**ISA\*00\*      \*00\*      \*ZZ\*GENERIC      \*02\*CN      \*020725\*145  
4\*U\*00405\*000054913\*0\*P\*^**

Element	Element	Data	Data	Characters
Seq	Name	Element	Type	Min/Max
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	I04	AN	10/10
ISA05	Interchange ID Qualifier	I05	ID	2/2
ISA06	Interchange Sender ID (fill out with spaces)	I06	AN	15/15
ISA07	Interchange ID Qualifier (If RR SCAC use 02)	I05	ID	2/2
ISA08	Interchange Receiver ID (RR SCAC- 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 00405)	I11	ID	5/5
ISA13	Interchange Control Number (number assigned by sender)	I12	N0	9/9
ISA14	Acknowledgment Requested (0 = none required, 1= required)	I13	ID	1/1
ISA15	Usage Indicator (P = Production, T = Test)	I14	ID	1/1
ISA16	Component Element Separator	I15		1/1

**GS Segment: Functional Group Header**

**GS\*SR\*HAZARDSHIPPER\*CN\*20000207\*0728\*0092\*X\*004050**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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 (CCYYMMDD)	373	DT	8/8
GS05	Time (HHMM)	337	TM	4/6
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 (CN is using version 004050 of the X12 EDI Standards)	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\*00920001**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*\*CN\*L\*B\*\*\*\*30\*\*2***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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, CC = Collect)	146	ID	2/2
BX05	Standard Carrier Alpha Code (CN = CN Rail)	140	ID	2/4
BX06	Weight Unit Code (L = Pounds, K= Kilograms)	188	ID	1/1
BX07	Shipment Qualifier (B = Bill of Lading for Individual Shipment)	147	ID	1/1
BX11	Customs Documentation handling code (30 = proforma with Broker, no B13 required)	501	ID	2/2
BX13	GST Declaration code (2 = No GST to apply)	714	ID	1/1

### **BNX Segment: Rail Shipment Information**

***BNX\*A\*\*S***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
BNX01	Shipment Weight Code (A = Wgt Agreement Number) (N = Per Car Charge)	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 through other means.

***M3\*R\*20000207\*0728***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*495033230\*\*20000207\*0728**  
**N9\*WM\*1234A**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N901	Reference Number Qualifier (BM = Bill of Lading number) (WM = Weight Agreement Number) (PO = Purchase order Number)	128	ID	2/2
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)	337	TM	4/6

**N7 Segment: Equipment Details**

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

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N701	Equipment Initial	206	AN	1/4
N702	Equipment Number	207	AN	1/10
N703	Weight	81	R	1/8
N704	Weight Qualifier (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
N711	Equipment Description Code (RR = Railcar}	40	ID	2/2

**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.

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

Data Seq	Element Name	Data Element	Data Type	Characters Min/Max
F902	Origin Station	101	AN	2/19
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\*\*GROOS\*MI***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
D902	Destination Station	300	AN	2/19
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\*HAZARDOUS SHIPPER INC  
N3\*123 ROAD  
N4\*WATSON\*SK  
N1\*CN\*HAZARDOUS CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*GROOS\*MI**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (CN = Consignee) (SH = Shipper) (C1 = Care of Party)	98	ID	2/2
N102	Name	93	AN	1/27

**N3 Segment: Address**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

**N4 Segment: City**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	State Or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

**R2 Segment: Route Information**

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

**R2\*CN\*S\*SUPER\*\*\*R  
R2\*WC\*1\*\*\*R**

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
R201	Standard Carrier Alpha Code (SCAC) (CN = Canadian National etc)	140	ID	2/4
R202	Routing Sequence Code (S = Origin Carrier, Shipper's Routing (Rail)) (1 = 1 <sup>st</sup> carrier after origin carrier) (2 = 2 <sup>nd</sup> carrier after origin carrier)	133	ID	1/2
R206	Transportation Method/Type Code (R = Rail)	91	ID	1/2

**LX Segment: Assigned Number**

***LX\*1***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*SODIUM CHLORATE\*4918723\*T***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L501	Line Number	213	N0	1/3
L502	Commodity Description	79	AN	1/50
L503	Commodity Code (7 digit Standard Transportation Commodity Code (STCC)) (ie4918723 = Sodium Chlorate)	22	AN	1/16
L504	Commodity Code Qualifier (T = Standard Transportation Commodity Code (STCC))	23	ID	1/1

**L0 Segment: Line Item, Quantity and Weight**

***L0\*1\*\*\*213360\*N\*\*\*1\*CLD***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
L001	Lading Line Item Number	213	N0	1/3
L004	Weight	81	R	1/8
L005	Weight Qualifier (E = Estimated Weight) (N = Net Weight)	187	ID	1/2
L008	Lading Quantity	80	N0	1/7
L009	Packaging Form Code (CLD = Carload)	211	ID	3/3
L011	Weight Unit Code (L = Pounds) (K = Kilograms)	188	ID	1/1

**LS Segment: Loop Header**

***LS\*LH1***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LS01	Loop Identifier Code	447	AN	1/4

**LH1 Segment: Hazardous Identification Information**

***LH1\*C4\*1\*UN1495\*\*4918723\*LB\*213300\*\*\*II***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LH101	Unit or Basis For Measurement Code (TK=Tank C4=Carload)	355	ID	2/2
LH102	Lading Quantity	80	NO	1/7
LH103	UN or NA Identification Code	277	ID	6/6
LH105	Commodity Code	22	AN	1/16
LH106	Unit or Basis for Measurement Code (LB=Pound)			
LH107	Quantity	380	R	1/15
LH110	Packing Group Code	254	ID	1/3

**LH2 Segment: Hazardous Classification Information**

***LH2\*5.1\*P\*PLACARDED CLASS 5.1***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LH201	Hazardous Classification	215	ID	2/30
LH202	Hazardous Class Qualifier (P=Primary)	983	ID	1/1
LH203	Hazardous Placard Notation	218	ID	14/40
LH204	Hazardous Endorsement	222	ID	4/25
LH205	Reportable Quantity Code	759	ID	2/2

**LH3 Segment: Hazardous Material Shipping Name**

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

Element Seg	Element Description Characters	Data Element	Data Type	Characters Min/Max
LH301	Hazardous Material Shipping Name	224	AN	1/25
LH302	Hazardous Material Shipping Name Qualifier Qualifier indicating the source (regulatory) of the proper shipping name. C = Canadian Shipping Name D = USA Shipping Name	984	ID	1/1

**LH04 Segment: Canadian Dangerous Requirements**

***LH4\*\*\*II***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LH401	Emergency Plan Number	238	AN	1/12
LH402	Communication Number	364	AN	1/25
LH403	Packing Group	254	ID	

**PER Segment: Hazardous Communications Contact**

***PER\*CN\*name\*TE\*123-123-1234***

***PER\*HM\*name\*TE\*222-111-2222***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
PER01	Contact Function Code (CN=Canadian Hazardous Material Contact Qualifier) (HM=USA Hazardous Material Contact Qualifier)	366	ID	2/2
PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/25

**LE Segments: Loop Trailer**

***LE\*LH1***

Element Seg	Element Description	Data Element	Data Type	Characters Min/Max
LE01	Loop Identifier Code	447	AN	1/4

**SE Segment: Transaction Set Trailer**

***SE\*32\*00920001***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
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\*0092***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
GE01	Number Of Transaction Sets Included	97	N0	1/6
GE02	Group Control Number (Repeated from GS segment GS06)			

**IEA Segment: Interchange Control Trailer**

***IEA\*1\*000054913***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
IEA01	Number of included Functional Groups	I16	N0	1/5
IEA02	Interchange Control Number (Same number as ISA13)	I12	N0	9/9



## Hazardous Waste / Hazardous Recyclable Materials Shipments

In addition to the 404 transaction data described in pages 3 thru 24, refer to the following pages when shipping hazardous waste or hazardous recyclable materials.

### **Waste Special Instructions**

LFH Segment: Free-form Hazardous Material Information

#### ***LFH\*WST\*SPECIAL INSTRUCTIONS GO HERE***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LFH01	Hazardous Material Shipment Information Qualifier (WST = Waste Declaration)	808	ID	3/3
LFH02	Hazardous Material Shipment Information (Waste special instructions)	809	AN	1/25

### **Permit Number**

LFH Segment: Free-form Hazardous Material Information

#### ***LFH\*WST\*PERMIT NUMBER GOES HERE***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LFH01	Hazardous Material Shipment Information Qualifier (WST = Waste Declaration)	808	ID	3/3
LFH02	Hazardous Material Shipment Information (Permit Number)	809	AN	1/25

### **Notice Number and Notice Line Number**

LFH Segment: Free-form Hazardous Material Information

#### ***LFH\*WST\*NOTICE NUMBER AND NOTICE LINE NUMBER GO HERE***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LFH01	Hazardous Material Shipment Information Qualifier (WST = Waste Declaration)	808	ID	3/3

LFH02	Hazardous Material Shipment Information (Notice Number and Notice Line Number)	809	AN	1/25
-------	---	-----	----	------

**Scheduled Arrival Date**

LFH Segment: Free-form Hazardous Material Information

***LFH\*WST\*SCHEDULED ARRIVAL DATE GOES HERE***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LFH01	Hazardous Material Shipment Information Qualifier (WST = Waste Declaration)	808	ID	3/3
LFH02	Hazardous Material Shipment Information (Scheduled Arrival Date)	809	AN	1/25

**Movement Document / Manifest Number**

LHR Segment: Hazardous Material Identifying Reference Numbers

***LHR\*MDN\*MOVEMENT DOCUMENT / MANIFEST NUMBER GOES HERE***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LHR01	Reference Identification Qualifier (MDN = Hazardous Waste Manifest Document Number)	128	ID	2/3
LHR02	Reference Identification (Movement Document / Manifest Number)	127	AN	1/80

**EPA Codes**

LEP Segment: EPA Required Data

***LEP\*D123***  
***LEP\*F123***

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
LEP01	EPA Waste Stream Number Code (EPA code)	806	ID	4/6

## Waste Parties

N1, N3, N4, and PER segments are repeated for any hazardous waste parties to the shipment.

**N1\*HZ\*HAZARDOUS WASTE GENERATOR INC**  
**N3\*567 ROAD**  
**N4\*WATSON\*SK**  
**PER\*RP\*\*TE\*555555555**

### N1 Segment: Party Identification

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N101	Entity Identifier Code (HZ = Waste Generator) (HW = Waste Facility) (HX = Waste Transporter)	98	ID	2/3
N102	Name	93	AN	1/60

### N3 Segment: Address

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N301	Address Information	166	AN	1/30
N302	Address Information	166	AN	1/30

### N4 Segment: City

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
N401	City Name	19	AN	2/19
N402	State Or Province Code	156	ID	2/2
N403	Postal Code	116	ID	3/9

### PER Segment: Hazardous Communications Contact

Element Seq	Element Name	Data Element	Data Type	Characters Min/Max
PER01	Contact Function Code (RP=Responsible Person)	366	ID	2/2

PER03	Communication Number Qualifier (TE=Telephone)	365	ID	2/2
PER04	Communication Number	364	AN	1/25

Sample EDI transmission including additional waste information.

ISA\*00\* \*00\* \*ZZ\*GENERIC \*02\*CN \*020725\*145  
4\*U\*00405\*000054913\*0\*P\*^  
GS\*SR\*HAZARDSHIPPER\*CN\*20000207\*0728\*0092\*X\*004050  
ST\*404\*00920001  
BX\*00\*R\*PP\*\*CN\*L\*B  
BNX\*A\*\*S  
M3\*R\*20000207\*0728  
N9\*BM\*495033230\*\*20000207\*0728  
N9\*WM\*1234A  
N7\*CN\*123456\*213360\*N\*\*\*\*\*RR  
F9\*\*WATSON\*SK  
D9\*\*VANCOUVER\*BC  
N1\*SH\*HAZARDOUS SHIPPER INC  
N3\*123 ROAD  
N4\*WATSON\*SK  
PER\*IC\*CONTACT NAME\*TE\*123-123-1234  
N1\*CN\*HAZARDOUS CONSIGNEE CO  
N3\*12 SMITH STREET  
N4\*VANCOUVER\*BC  
R2\*CN\*S\*\*\*\*R  
LX\*1  
L5\*1\*WASTE CARBON TETRACHLORIDE\*4840320\*T  
L0\*1\*\*\*213360\*N\*\*\*1\*CLD  
LS\*LH1  
LH1\*C4\*1\*UN1846\*\*4840320\*LB\*213360  
LH2\*6.1\*P\*PLACARDED CLASS 6.1  
LH3\*WASTE CARBON TETRACHLORIDE\*C  
LH4\*\*\*II  
PER\*CN\*NAME\*TE\*123-123-1234  
LFH\*WST\*SPECIAL INSTRUCTIONS: TAKE CARE UNLOADING  
LFH\*WST\*PERMIT NO: 1234567890  
LEP\*D123  
LEP\*F123  
LHR\*MDN\*MOVEMENT DOCUMENT / MANIFEST NO GOES HERE  
N1\*HZ\*HAZARDOUS WASTE GENERATOR INC  
N3\*567 ROAD  
N4\*WATSON\*SK  
PER\*RP\*\*TE\*5555555555  
LE\*LH1  
SE\*28\*00920001  
GE\*1\*0092  
IEA\*1\*000054913