

Dangerous Goods/Hazardous Materials EDI Mapping

The description of the dangerous goods/hazardous materials shipping description entries is divided into four parts;

Part I, entries having regulatory requirements in both Canada and the US,

Part II, entries having regulatory requirements in Canada but not the US, (These may be required on transborder shipments originating in US.),

Part III, entries having regulatory requirements in the US but not Canada, (These may be required on transborder shipments originating in Canada.), and

Part IV, entries having no regulatory requirement, but provide useful additional information.

Part V, examples of how the Industry has agreed to handle specific situations.

- Notes:*
1. “~” is used to indicate a break in the EDI segment as printed in this document.
 2. “//” is used in accordance with the “Interindustry Rail Safety Task Force Guidelines for Preparation of Shipping Papers” to separate shipping paper entries when displayed on a single line.
 3. EDI examples shown are according to release 005030.
 4. The examples follow the shipping paper requirements set forth in Transportation of Dangerous Goods, Clear Language Amendment; August, 2002 and US Hazardous Materials Regulations through Docket HM-215E.

Caution: The descriptions were chosen to illustrate how a particular dangerous goods/hazardous materials entry is transmitted via EDI, and may not have all the information required by Canadian or US regulations.

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Part I
Shipping Description Entries Defined in
Canadian and US Regulations

I-1. Compartment Notation

Regulatory Reference: TDG 3.5(1)(e)
49CFR 172.202(a)(5)

EDI 005030: LH101, LH102 & LH108
LH101 contains "UN" and LH102 contains "1".
LH108 contains the number of the compartment containing the dangerous goods/hazardous materials.

LH1***UN*1***UN1294**4909305*****1****II

To display: Begin the description with the word "COMPARTMENT" followed by the value in LH108.

As sent

As displayed

...
L5*1*MIXED HAZARDOUS*4950110*T
...
L5*2*CHEMICALS, NEC*2899991*T*****2
...
L5*3*TOLUENE*4909305*T*****1
...
LS*800
LH1***UN*1***UN1294**4909305*****1****II
LH2*3*P***RQ
LH3*TOLUENE*D
LFH*HZC*(TOLUENE)
LE*800
PER*HM**TE*1234567890

COMPARTMENT 1
TOLUENE
3//UN1294//PG II
RQ (TOLUENE)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4909305

Note: Not required for single compartment tank cars, or if all compartments contain the same commodity.

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

I-2. Empty Packagings

Regulatory Reference: TDG 3.5(4)
49CFR 172.203(e)

EDI 005030: LH109 & L504

LH109 contains “R” if a rail tank car containing dangerous goods/hazardous materials is “Residue: Last Contained”.
LH109 contains a “P” if a rail car other than a rail tank car containing Residue.
LH109 contains a “G” if a package other than a rail car containing Residue.
L504 contains a “T”, if the rail car, trailer or container is transporting empty packages.
Otherwise L504 contains an “L”, for tank cars, covered hoppers, gondolas, IM portable tanks and other equipment where the rail car or container transported the materials in bulk.

LH1*TK*1*UN1987**4909151******R***II
LH1*C4*1*UN2067**4918310******P***II
LH1*CL*1*UN1066**4904565******G***II

To display: Begin the description with phrase “Residue: Last Contained”.

As sent

L5*1*HAZARDOUS MATERIAL*4909151*L
...
LS*800
LH1*TK*1*UN1987**4909151******R***II
LH2*3*P
LH3*ALCOHOL, N.O.S.*D
LE*800
PER*HM**TE*1234567890

As displayed

1T/C
RESIDUE: LAST CONTAINED
ALDOHOL, N.O.S.
3//UN1987//PG II
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4909151

Package Example

L5*1*HAZARDOUS MATERIAL*4950150*T
...
LS*800
LH1*CL*1*UN1066**4904565******G**
LH2*2.2*P
LH3*NITROGEN, COMPRESSED*D
LE*800
PER*HM**TE*1234567890

1 CYLINDER
RESIDUE: LAST CONTAINED
NITROGEN, COMPRESSED
2.2//UN1066
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4904565

I-3. Shipping Name

Regulatory Reference: TDG 3.5(1)(c)(i)
49CFR 172.202(a)(1)

EDI 005030: LH301 & LH302 Shipping name is sent in LH301. If the shipping name is longer than 25 characters send in additional LH3 segments. LH302 contains the qualifier for the regulatory authority regulating the commodity.
C = Canadian
D = US
I = International

LH3*METHYL ALCOHOL*C
or
LH3*METHYL ALCOHOL*D
or
LH3*METHYL ALCOHOL*I

To display: Display data sent in LH301's in the order sent.

As sent

L5*1*HAZARDOUS MATERIAL*4909337*T
...
LS*800
LH1*TK*1*UN1230**4909337*****II
LH2*3*P***RQ
LH3*METHYL ALCOHOL*D
LFH*HZC*(METHYL ALCOHOL)
LE*800
PER*HM**TE*1234567890

As displayed

1T/C
METHYL ALCOHOL
3//UN1230//PG II
RQ (METHYL ALCOHOL)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4909337

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

I-4. Technical Name

Regulatory Reference: TDG 3.5(1)(c)(i)(A)
49CFR 172.202(d), 172.203(k) or
172.203(m)(2)

EDI 005030: LFH01 & LFH02 Technical name is sent in LFH02 with LFH01 equal to "TEC". Technical name must be enclosed in parentheses. If the technical name is longer than 25 characters, send in additional LFH02 elements.

If LH303 is sent, a technical name must be sent in LFH*TEC.

LH3*FLAMMABLE LIQUIDS, N.O.S.*C***NOS**
LFH***TEC*(DIMETHYLETHYLAMINE)**

To display: Display data sent in LFH02's in to order sent.

As sent	As displayed
L5*1*DANGEROUS GOODS*4907825*T	1T/C
...	FLAMMABLE LIQUIDS, N.O.S.
LS*800	(DIMETHYLETHYLAMINE)
LH1*TK*1*UN1993**4907825*****II	CLASS 3//UN1993//PG II
LH2*3*P*	EMERGENCY CONTACT:
LH3*FLAMMABLE LIQUIDS, N.O.S.*D* NOS	123-456-7890
LFH* TEC*(DIMETHYLETHYLAMINE)	HAZMAT STCC=4907825
LE*800	
PER*HM**TE*1234567890	

I-5. Hazard Class/Division Number

Regulatory Reference: TDG 3.5(1)(c)(ii)
49CFR 172.202(a)(2)
Note: In EDI a division is equivalent to a hazard class.

EDI 005030: LH201 & LH202 Value of hazard class or division number is sent in LH201. LH202 qualifies the value in LH202 as primary, "P"; or subsidiary, "S". For the hazard class "combustible liquid" the value sent is "COMBUSTIBLE LIQUID".

LH2***8*****P*****RQ
or
LH2***3*****P**
LH2***8*****S**

To display:

In Canada
If LH2 = "P", add "Class " in front of value sent.
If LH2 = "S", enclose value in parentheses and display after primary class.

In US
If LH2 = "P", display value as sent.
If LH2 = "S", display in parentheses following primary class.

As sent

As displayed

US Shipment

<p>L5*1*HAZARDOUS MATERIAL*4931705*T ... LS*800 LH1*TK*1*UN1716**4931705*****II LH2*8*P***RQ LH3*ACETYL BROMIDE*D LFH*HZC*(ACETYL BROMIDE) LE*800 PER*HM**TE*1234567890</p>	<p>1T/C ACETYL BROMIDE 8//UN1716//PG II RQ (ACETYL BROMIDE) EMERGENCY CONTACT: 123-456-7890 HAZMAT STCC=4931705</p>
---	--

Canadian Shipment

<p>L5*1*DANGEROUS GOODS*4907630*T ... LS*800 LH1*TK*1*UN1250**4907630*****I LH2*3*P LH2*8*S LH3*METHYL TRICHLOROSILANE*C</p>	<p>1T/C METHYL TRICHLOROSILANE CLASS 3 (8) UN1250 PG I 24-HOUR NUMBER: 123-456-7890</p>
--	--

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

LE*800
PER*HM**TE*1234567890

HAZMAT STCC=4907630

I-6. Identification Number

Regulatory Reference: TDG 3.5(1)(c)(v)
49CFR 172.202(a)(3)

EDI 005030: LH103 Identification number sent including "UN" or
"NA" prefix.

LH1*TK*1***UN1830****4930040*****II

To display: Display data sent following hazard
class/division number.

As sent

L5*1*HAZARDOUS MATERIAL*4930040*T
...
LS*800
LH1*TK*1***UN1830****4930040*****II
LH2*8*P***RQ
LH3*SULFURIC ACID*D
LFH*HZC*(SULFURIC ACID)
LE*800
PER*HM**TE*1234567890

As displayed

1T/C
SULFURIC ACID
8//**UN1830**//PG II
RQ (SULFURIC ACID)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4930040

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

I-7. Packing Group

Regulatory Reference: TDG 3.5(1)(c)(vi)
49CFR 172.202(a)(4)

EDI 005030: LH110 Packing group sent as a Roman numeral.

LH1*TK*1*UN830**4930040*****II

To display: Precede data sent with "PG " and display
data after the identification number.

As sent

L5*1*HAZARDOUS MATERIAL*4930040*T
...
LS*800
LH1*TK*1*UN1830**4930040*****II
LH2*8*P***RQ
LH3*SULFURIC ACID*D
LFH*HZC*(SULFURIC ACID)
LE*800
PER*HM**TE*1234567890

As displayed

1T/C
SULFURIC ACID
8//UN1830//**PG II**
RQ (SULFURIC ACID)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4930040

I-8. Marine Pollutant Notation

Regulatory Reference: TDG 3.6(3)(a)(ii)
49CFR 172.203(l)

EDI 005030: LFH01, LFH02 & LFH03
LFH01 = "MPI"
LFH02 and LFH03 contain the name of the marine pollutant in parentheses. If the name is longer than 50 characters, send in additional LHF segments.

LFH*MPI*(ACETALDEHYDE)

To display: Display after "RQ" notation, "MARINE POLLUTANT" followed by the data sent in LFH02(s) AND LFH03(s).

As sent

L5*1*HAZARDOUS MATERIAL*4907210*T
...
LS*800
LH1*TK*1*UN1089**4907210*****I
LH2*3*P***RQ
LH3*ACETALDEHYDE*D
LFH*HZC*(ACETALDEHYDE)
LFH*MPI*(ACETALDEHYDE)
LE*800
PER*HM**TE*1234567890

As displayed

1 T/C
ACETALDEHYDE
3//UN1089//PG I
RQ (ACETALDEHYDE)
MARINE POLLUTANT
(ACETALDEHYDE)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4907210

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

I-9. Radioactive Material Information

See I-9A for Radioactive Materials Activity
See I-9B for Radioactive Materials Transport Index

Regulatory Reference: TDG 3.6(3)(d)
49CFR 172.203(d)

EDI 005030: LFH01, LFH02 & LFH03 LFH01 = contains "RAM".
LFH02 and LFH03 contain radioactive information. If the information is longer than 25 characters, send in additional LFH02 and LFH03 elements. Elements must be broken on complete words.

LFH*RAM*RADIOACTIVE MATERIALS*INFORMATION~**
****G4*237.8*9.8**

To display: Display data sent in LFH02's in to order sent.

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4929941*T	1 CONTAINER 90000 LBS GROSS
...	RADIOACTIVE MATERIAL,
LS*800	N.O.S.
LH1*CH*1*UN2982**4929941*PG*90000	7//UN2982
LH2*7*P	RADIONUCLIDES: U-235
LH3*RADIOACTIVE MATERIAL,*D	SOLID
LH3*N.O.S.*D	RADIOACTIVE YELLOW III
LFH*RAM*RADIONUCLIDES: U-235~	FISSILE CLASS III
**G4*237.8*9.8	ETC.
LFH*RAM*SOLID	237.8 GIGABECQUERELS
LFH*RAM*RADIOACTIVE YELLOW III	TRANSPORT INDEX 9.8
LFH*RAM*FISSILE CLASS III	EMERGENCY CONTACT:
LFH*RAM*ETC.	123-456-7890
LE*800	HAZMAT STCC=4929941
PER*HM**TE*1234567890	

I-9A. Radioactive Material Activity

Regulatory Reference: TDG 3.6(3)(d)
49CFR 172.203(d)(4)

EDI 005030: LFH05 & LFH06 LFH05 = contains the units of activity in
Becquerels.
LFH06 contains the amount of activity.

LFH*RAM*RADIOACTIVE MATERIALS*INFORMATION****G4*237.8*9.8**

To display: Display data sent in LFH02's in to order sent.

As sent

L5*1*HAZARDOUS MATERIAL*4929941*T
...
LS*800
LH1*CH*1*UN2982**4929941*PG*90000
LH2*7*P
LH3*RADIOACTIVE MATERIAL,*D
LH3*N.O.S.*D
LFH*RAM*RADIONUCLIDES: U-235~
*****G4*237.8*9.8**
LFH*RAM*SOLID
LFH*RAM*RADIOACTIVE YELLOW III
LFH*RAM*FISSILE CLASS III
LFH*RAM*ETC.
LE*800
PER*HM**TE*1234567890

As displayed

1 CONTAINER 90000 LBS GROSS
RADIOACTIVE MATERIAL,
N.O.S.
7//UN2982
RADIONUCLIDES: U-235
SOLID
RADIOACTIVE YELLOW III
FISSILE CLASS III
ETC.
237.8 GIGABECQUERELS
TRANSPORT INDEX 9.8
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4929941

**DANGEROUS GOODS/HAZARDOUS
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I-9B. Radioactive Material Transport Index

Regulatory Reference: TDG 3.6(3)(d)
49CFR 172.203(d)(6)

EDI 005030: LFH07 LFH07 = contains the Transport Index. This is a dimensionless number.

LFH*RAM*RADIOACTIVE MATERIALS*INFOMRATION**G4*237.8***9.8**

To display: Display data sent in LFH02's in to order sent.

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4929941*T	1 CONTAINER 90000 LBS GROSS
...	RADIOACTIVE MATERIAL,
LS*800	N.O.S.
LH1*CH*1*UN2982**4929941*PG*90000	7//UN2982
LH2*7*P	RADIONUCLIDES: U-235
LH3*RADIOACTIVE MATERIAL,*D	SOLID
LH3*N.O.S.*D	RADIOACTIVE YELLOW III
LFH*RAM*RADIONUCLIDES: U-235~	FISSILE CLASS III
***G4*237.8* 9.8	<i>ETC.</i>
LFH*RAM*SOLID	237.8 GIGABECQUERELS
LFH*RAM*RADIOACTIVE YELLOW III	TRANSPORT INDEX 9.8
LFH*RAM*FISSILE CLASS III	EMERGENCY CONTACT:
LFH*RAM* <i>ETC.</i>	123-456-7890
LE*800	HAZMAT STCC=4929941
PER*HM**TE*1234567890	

I-10. Emergency Contact

Regulatory Reference: TDG 3.5(1)(f)
49CFR 172.604

Note: Emergency telephone number is not required on Limited Quantity shipments in the US, but may be sent.

EDI 005030: PER01, PER02 PER01 = "HM" or "CN"
PER03 & PER04 PER02 = contains shipper contact if different from that in "N1*SH" out side loop.
PER03 = "TE"
PER04 contains the telephone number.

PER*HMTE*1234567890**

Note: In the case of a transborder shipment, if the emergency contact number is not accessible in both countries, the telephone number accessible in each country must be sent. The Canadian telephone number is sent in a PER segment with PER01 = "CN", and the US number with PER01 = "HM".

PER02 is blank if shipper contact is same as that in "N1*SH" outside LH loop.

To display: In the US display telephone number after "EMERGENCY CONTACT". In Canada display after "24-HOUR NUMBER".

As sent

L5*1*HAZARDOUS MATERIAL*4908105*T
...
LS*800
LH1*TK*1*UN1090**4908105*****II
LH2*3*P***RQ
LH3*ACETONE*D
LFH*HZC*(ACETONE)
LE*800
PER***HM**TE*1234567890**

As displayed

1T/C
ACETONE
3//UN1090//PG II
RQ (ACETONE)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4908105

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

I-11. Type and Number of Packagings

Regulatory Reference: TDG 3.5(1)(d)
49CFR 172.202(a)(6)

EDI 005030: LH101 & LH102 LH101 contains the type of packaging.
LH102 contains the number of packagings.

LH1***CL*1***UN1066**4904565

To display: Type of packaging must be translated from
code sent. Display at the beginning of the
description.

As sent

As displayed

Package Example

L5*1*MIXED HAZARDOUS*4950150*T
...
LS*800
LH1***CL*1***UN1066**4904565
LH2*2.2*P
LH3*NITROGEN, COMPRESSED*D
LE*800
PER*HM**TE*1234567890

1 CYL
NITROGEN, COMPRESSED
2.2//UN1066
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4904565

I-12. Total Quantity

Regulatory Reference: TDG 3.5(1)(d)
49CFR 172.202(a)(5)

EDI 005030: LH106 & LH107 LH106 contains unit of measure code.
LH107 contains the quantity.

LH1*BX*1*UN1298**4907689***KG*5****I

To display: Unit of measure must be translated from
code sent. Display at the beginning of the
description on the same line with number and
type of packaging.

As sent

As displayed

Package Example

L5*1*MIXED HAZARDOUS*4950150*T

1 BOX **5 KG**

...

TRIMETHYLCHLOROSILANE

LS*800

3//UN1298//PG I

LH1*BX*1*UN1298**4907689***KG*5****I

EMERGENCY CONTACT:

LH2*3*P

123-456-7890

LH3*TRIMETHYLCHLOROSILANE*D

HAZMAT STCC=4907689

LE*800

PER*HM**TE*1234567890

Note: For bulk shipment, e.g., tank cars, covered hoppers, etc.,
total quantity is sent in an L0 or N7 segment..

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

I-13. Control and Emergency Temperature

Regulatory Reference: TDG 3.6(3)(b) & (c)
49CFR 172.203(o)(2)

EDI 005030: LH208, LH209 LH208 = Control Temperature qualifier
LH210, LH211 LH209 = Control Temperature
LH210 = Emergency Temperature qualifier
LH211 = Emergency Temperature

LH2*5.2*P***CE*5*CE*15**

To display: Temperature qualifiers must be translated
from codes sent. Display the temperatures
after:
“CONTROL TEMP.=” and
“EMERGENCY TEMP.=”

As sent

As displayed

Package Example

L5*1*MIXED HAZARDOUS*4950150*T	1 BOX 10 KG
...	ORGANIC PEROXIDE TYPE C,
LS*800	LIQUID, TEMPERATURE
LH1*BX*1*UN3113**4918986*KG*10***II	CONTROLLED
LH2*5.2*P***** CE*5*CE*15	(TERT-AMYL
LH3*ORGANIC PEROXIDE TYPE C,*D	PEROXYPIVALATE)
LH3*LIQUID, TEMPERATURE*D	CLASS 5.2//UN3113//PG II
LF3*CONTROLLED*D	CONTROL TEMP.=5 C
LFH*TEC*(TERT-AMYL	EMERGENCY TEMP.=15 C
LFH*TEC*PEROXYPIVALATE)	EMERGENCY CONTACT:
LE*800	123-456-7890
PER*HM**TE*1234567890	HAZMAT STCC=4918986

I-14. Net Explosives Quantity

Regulatory Reference: TDG 3.5(1)(d)
49CFR 172.202(a)(5)(i)

EDI 005030: LH212 & LH213 LH212 Contains the unit of measure
LH213 Contains the net weight of explosives

LH2*1.5D*P*****K*62000

To display: Display data sent following "NEQ".

As sent	As displayed
N1*SH*ABC CONSIGNOR	ABC CONSIGNOR
N3*1234 ANY STREET	1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3	ANYTOWN, PV A1B 2C3
N1*CN*DEF CONSIGNEE	DEF CONSIGNEE
N3*789 ALL ROADS	789 ALL ROADS
N4*CITY*PV*Z9Y 8X7	CITY, PV Z9Y 8X7
...	
L5*1*DANGEROUS GOODS*4903803*T	2520 BOX 63000 KG
...	EXPLOSIVES, BLASTING,
LS*800	TYPE E
LH1*BX*2520*UN0332**4903803*KG*63000~	CLASS 1.5D//UN0332//PG II
***II	ERP 1234 987-654-3210
LH2*1.5D*P*****K*62000	NEQ 62000 KG
LH3*EXPLOSIVES, BLASTING,*C	24-HOUR NUMBER:
LH3* TYPE E*C	123-456-7890
LH4*1234*9876543210	HAZMAT STCC = 4903803
LE*800	
PER*HM**TE*1234567890	

Part II
Shipping Description Entries Defined in
Canadian Regulations

II-1. Emergency Response Plan Number and Telephone Number

Regulatory Reference: TDG 3.6(1)
49CFR None

EDI 005030: LH401 & LH402 LH401 contains the assigned plan number.
“1-2345-678” of “ERP 1-2345-678”.
Telephone number to activate the plan in
sent in LH402.

LH4*1-2345-678*9876543210

To display: Display data sent in LH401 following
“Summary of Emergency Response” or
“ERP”, then the telephone number.

As sent	As displayed
N1*SH*ABC CONSIGNOR	ABC CONSIGNOR
N3*1234 ANY STREET	1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3	ANYTOWN, PV A1B 2C3
N1*CN*DEF CONSIGNEE	DEF CONSIGNEE
N3*789 ALL ROADS	789 ALL ROADS
N4*CITY*PV*Z9Y 8X7	CITY, PV Z9Y 8X7
...	
L5*1*DANGEROUS GOODS*4930040*T	1 T/C
...	SULPHURIC ACID
LS*800	CLASS 8//UN1830//PG II
LH1*TK*1*UN1830**4930040*****II	ERP 1-2345-678
LH2*8*P	987-654-3210
LH3*SULPHURIC ACID*C	24-HOUR NUMBER:
LH4* 1-2345-678*9876543210	123-456-7890
LE*800	HAZMAT STCC = 4930040
PER*HM**TE*1234567890	

II-2. Special Instructions

Regulatory Reference: TDG None
49CFR None

EDI 005030: LFH01 & LFH02 LFH01 = "ADI".
Special instructions sent in LFH02. If the
special instructions is longer than 25
characters, send in additional LFH segments.

LFH*ADI*SPECIAL INSTRUCTIONS

To display: Display data sent in LFH02's in to order sent.

As sent	As displayed
N1*SH*ABC CONSIGNOR	ABC CONSIGNOR
N3*1234 ANY STREET	1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3	ANYTOWN, PV A1B 2C3
N1*CN*DEF CONSIGNEE	DEF CONSIGNEE
N3*789 ALL ROADS	789 ALL ROADS
N4*CITY*PV*Z9Y 8X7	CITY, PV Z9Y 8X7
...	
L5*1*DANGEROUS GOODS*4906420*T	1T/C
...	
LS*800	ACRYLONITRILE, STABILIZED
LH1*TK*1*UN1093**4906420*****I	CLASS 3 (6.1) (9.2)//UN1093
LH2*3*P	PG I
LH2*6.1*S	ERP 1-1234 987-654-3210
LH2*9.2*S	ADDITIONAL INHIBITOR
LH3*ACRYLONITRILE, STABILIZED*C	REQUIRED AFTER 30 DAYS
LH4*1-1234*9876543210	24-HOUR NUMBER:
LFH*ADI* ADDITIONAL INHIBITOR	123-456-7890
LFH*ADI* REQUIRED AFTER 30 DAYS	HAZMAT STCC = 4906420
LE*800	
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

II-3. Protective Direction Number

Regulatory Reference: TDG 13
49CFR None

EDI 005030: LFH01, LFH02 & LFH03
LFH01 = "ADI"
LFH02 = "PROTECTIVE DIRECTION NO."
LFH03 contains the protective direction number.

LFH*ADI*PROTECTIVE DIRECTION NO.*10

To display: Display data sent in LFH02 and LFH03.

As sent	As displayed
N1*SH*ABC CONSIGNOR	ABC CONSIGNOR
N3*1234 ANY STREET	1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3	ANYTOWN, PV A1B 2C3
N1*CN*DEF CONSIGNEE	DEF CONSIGNEE
N3*789 ALL ROADS	789 ALL ROADS
N4*CITY*PV*Z9Y 8X7	CITY, PV Z9Y 8X7
...	
L5*1*DANGEROUS GOODS*4930040*T	1T/C
...	
LS*800	SULPHURIC ACID
LH1*TK*1*UN1830**4930040*****II	CLASS 8//UN1830//PG II
LH2*8*P	ERP 1-1234 987-654-3210
LH3*SULPHURIC ACID*C	PROTECTIVE DIRECTION NO.
LH4*1-1234*9876543210	10
LFH*ADI*PROTECTIVE DIRECTION NO.*10	24-HOUR NUMBER:
LE*800	123-456-7890
PER*HM**TE*1234567890	HAZMAT STCC = 4930040

II-4. Permit Number (Equivalent Level of Safety)

Regulatory Reference: TDG 14
49CFR None

EDI 005030: LHR01, LHR02 & LHR03
LHR01 = "PN".
LHR02 contains letters and numbers identifying the equivalent level of safety permit number.
LHR03 contains the expiration date of the permit number if required to be transmitted (CCYYMMDD)

LHR*PN*SR1234*20051231

To display: Display data sent in LHR02 after "ELS PERMIT".
Display date sent in LHR03 after "EXPIRY DATE:"

As sent	As displayed
N1*SH*ABC CONSIGNOR	ABC CONSIGNOR
N3*1234 ANY STREET	1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3	ANYTOWN, PV A1B 2C3
N1*CN*DEF CONSIGNEE+	DEF CONSIGNEE
N3*789 ALL ROADS	789 ALL ROADS
N4*CITY*PV*Z9Y 8X7	CITY, PV Z9Y 8X7
...	
L5*1*DANGEROUS GOODS*4930040*T	1T/C 90000 KG
...	SULPHURIC ACID
LS*800	CLASS 8//UN1830//PG II
LH1*TK*1*UN1830**4930040*KG*90000***II	ERP 1234 987-654-3210
LH2*8*P	ELS PERMIT SR1234
LH3*SULPHURIC ACID*C	EXPIRY DATE: 12/31/2005
LH4*1234*9876543210	24-HOUR NUMBER:
LHR*PN*SR1234*20051231	123-456-7890
LE*800	HAZMAT STCC = 4930040
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

II-5. Consignor – Canadian Origin

Regulatory Reference: TDG 3.5(1)(a)
49CFR None

EDI 005030: N1, N3, & N4 N1 contains the name of the consignor with N101 = "SH".
N301 contains street address.
N4 contains the city, province and postal code.
N102, N301 & N401 are limited to 25 characters.

**N1*SH*ABC CONSIGNOR
N3*1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3**

Note: For bulk shipments the N1 loop to satisfy the consignor requirement is sent outside the LH loop. For mixed dangerous goods shipments it is sent inside the LH loop.

To display: Display in association with hazardous materials shipping description.

As sent

```
N1*SH*ABC CONSIGNOR
N3*1234 ANY STREET
N4*ANYTOWN*PV*A1B 2C3
N1*CN*DEF CONSIGNEE
N3*789 ALL ROADS
N4*CITY*PV*Z9Y 8X7
...
L5*1*DANGEROUS GOODS*4930040*T
...
LS*800
LH1*TK*1*UN1830**4930040*****II
LH2*8*P
LH3*SULPHURIC ACID*C
LH4*1-2345-678*9876543210
LE*800
PER*CN**TE*1234567890
```

As displayed

```
ABC CONSIGNOR
1234 ANY STREET
ANYTOWN, PV A1B 2C3
DEF CONSIGNEE
789 ALL ROADS
CITY, PV Z9Y 8X7
...
1 TC
SULPHURIC ACID
CLASS 8//UN1830//PG II
ERP 1-2345-678
987-654-3210
24-HOUR NUMBER:
123-456-7890
HAZMAT STCC = 4930040
```

II-6. Consignee – US Origin (Canadian Consignor)

Regulatory Reference: TDG 3.5(1)(a) & 10.1(1)(a)(i)
49CFR None

EDI 005030: N1, N3, & N4 N1 contains the name of the consignee with N101 = "CN".
N301 contains street address.
N4 contains the city and province code.
N102, N301 & N401 are limited to 25 characters.

**N1*CN*DEF CONSIGNEE
N3*789 ALL ROADS
N4*CITY*PV**

Note: For bulk shipments the N1 loop to satisfy the consignor requirement is sent outside the LH loop. For mixed dangerous goods shipments it is sent inside the LH loop.

To display: Display in association with hazardous materials shipping description.

As sent

As displayed

N1*CN*DEF CONSIGNEE	DEF CONSIGNEE
N3*789 ALL ROADS	789 ALL ROADS
N4*CITY*PV	CITY, PV
...	
L5*1*DANGEROUS GOODS*4930040*T	1 TC
...	SULPHURIC ACID
LS*800	CLASS 8//UN1830//PG II
LH1*TK*1*UN1830**4930040*****II	ERP 1-2345-678
LH2*8*P	987-654-3210
LH3*SULPHURIC ACID*C	24-HOUR NUMBER:
LH4*1-2345-678*9876543210	123-456-7890
LE*800	EMERGENCY CONTACT:
PER*HM**TE*9123456789	912-345-6789
PER*CN**TE*1234567890	HAZMAT STCC = 4930040

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

II-7. Consignor – Canadian Origin (Mixed Load)

Regulatory Reference: TDG 3.5(1)(a)
49CFR None

EDI 005030: N1, N3, & N4 N1 contains the name of the consignor with N101 = "SH".
N301 contains street address.
N4 contains the city and province code.
N102, N301 & N401 are limited to 25 characters.

**N1*SH*ABC CONSIGNOR
N3*1234 ANY STREET
N4*ANYTOWN*PV**

Note: For bulk shipments the N1 loop to satisfy the consignor requirement is sent outside the LH loop. For mixed dangerous goods shipments it is sent inside the LH loop.

To display: Display in association with hazardous materials shipping description.

As sent

As displayed

...	
L5*1*DANGEROUS GOODS*4950150*T	1 CARTON 4 LT
...	SULPHURIC ACID
LS*800	CLASS 8//UN1830//PG II
LH1*CT*1*UN1830**4930040*LT*4***II	ABC CONSIGNOR
LH2*8*P	1234 ANY STREET
LH3*SULPHURIC ACID*C	ANYTOWN, PV
N1*SH*ABC CONSIGNOR	DEF CONSIGNEE
N3*1234 ANY STREET	789 ALL ROADS
N4*ANYTOWN*PV	CITY, PV
N1*CN*DEF CONSIGNEE	24-HOUR NUMBER:
N3*789 ALL ROADS	123-456-7890
N4*CITY*PV	HAZMAT STCC = 4930040
LE*800	
PER*CN**TE*1234567890	

II-8. Consignor – US Origin (Mixed Load)

Regulatory Reference: TDG 3.5(1)(a)
49CFR None

EDI 005030: N1, N3, & N4 N1 contains the name of the consignor with N101 = "CN".
N301 contains street address.
N4 contains the city and province code.
N102, N301 & N401 are limited to 25 characters.

**N1*CN*ABC CONSIGNOR
N3*1234 ANY STREET
N4*ANYTOWN*PV**

Note: For bulk shipments the N1 loop to satisfy the consignor requirement is sent outside the LH loop. For mixed dangerous goods shipments it is sent inside the LH loop.

To display: Display in association with hazardous materials shipping description.

As sent

As displayed

<pre> ... L5*1*DANGEROUS GOODS*4950150*T ... LS*800 LH1*CT*1*UN1830**4930040*LT*4***II LH2*8*P LH3*SULPHURIC ACID*D N1*CN*DEF CONSIGNEE N3*789 ALL ROADS N4*CITY*PV LE*800 PER*HM**TE*1234567890 </pre>	<pre> 1 CARTON 4 LT SULPHURIC ACID CLASS 8//UN1830//PG II DEF CONSIGNEE 789 ALL ROADS CITY, PV 24-HOUR NUMBER: 123-456-7890 HAZMAT STCC = 4930040 </pre>
---	--

Part III
Shipping Description Entries Defined in
US Regulations

III-1. HOT Notation

Regulatory Reference: TDG None
49CFR 172.203(n)

EDI 005030: LFH01 & LFH02 LFH01 = "HOT"
LFH02 = "HOT"

LFH*HOT*HOT

Sent as

To display:

Begin the description with the word "HOT"
followed by shipping name.

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4934223*T
...
LS*800
LH1*TK*1*UN2214**4934223*****III
LH2*8*P***RQ
LH3*PHTHALIC ANHYDRIDE*D
LFH*HZC*(PHTHALIC ANHYDRIDE)
LFH***HOT*HOT**
LE*800
PER*HM**TE*1234567890

1T/C
HOT
PHTHALIC ANHYDRIDE
8//UN2214//PG III
RQ (PHTHALIC ANHYDRIDE)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4934223

III-2. Reportable Quantity Notation

Regulatory Reference: TDG None
49CFR 172.203(c)(1(i) & (c)(2)

EDI 005030: LFH01 & LFH02 LH205
LH205 = "RQ"
LFH01 = "HZC"
LFH02 contains name of the hazardous substance constituent. Constituent must be enclosed in parentheses. If the constituent name is longer than 25 characters, send in additional LFH02 elements.

LFH segment not required if waste stream number or waste characteristic is sent in LEP segment. Please refer to III-3 and III-4.

LH2*8*P***RQ
...
LFH*H*ZC*(SULFURIC ACID)

To display: Display data sent in LFH02's preceded by "RQ" immediately following packing group

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4930040*T	1T/C
...	SULFURIC ACID
LS*800	8//UN1830//PG II
LH1*TK*1*UN1830**4930040*****II	RQ (SULFURIC ACID)
LH2*8*P***RQ	EMERGENCY CONTACT:
LH3*SULFURIC ACID*D	123-456-7890
LFH*H*ZC*(SULFURIC ACID)	HAZMAT STCC=4930040
LE*800	
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-3. EPA Waste Stream Numbers

Regulatory Reference: TDG None
49CFR 172.205, (c)(1) (ii)

EDI 005030: LH205, LEP01 LH205 = "RQ"
LEP01 contains the EPA Waste Stream
Number

LH2*9*P***RQ

...

LEP*F003

To display: Display LEP01 in parentheses following
"RQ".

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4860131*T
...
LS*800
LH1*TK*1*NA3082**4860131*****III
LH2*9*P***RQ
LH3*HAZARDOUS WASTE LIQUID,*D
LH3*N.O.S.*D
LEP*F003
LE*800
PER*HM**TE*1234567890

1C/L
HAZARDOUS WASTES LIQUID,
N.O.S.
9//NA3082//PG III
RQ (F003)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4860131

III-4. Poison Notation

Regulatory Reference: TDG None
49CFR 172.203(m)(1)

EDI 005030: LFH01 & LFH02 LFH01 = "POI"
LFH02 contains "POISON"

LFH*POI*POISON

To display: Display as "POISON".

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4916141*T
...
LS*800
LH1*TK*1*UN1381**4916141*****I
LH2*4.2*P***RQ
LH3*PHOSPHORUS, WHITE, UNDER*D
LH3*WATER*D
LFH*H2C*(PHOSPHORUS)
LFH***POI*POISON**
LE*800
PER*HM**TE*1234567890

1T/C
PHOSPHORUS, WHITE, UNDER
WATER
4.2//UN1381//PG I
RQ (PHOSPHORUS)
POISON
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4916141

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-5. Poison-Inhalation Hazard and Hazard Zone Notation

Regulatory Reference: TDG None
49CFR 172.203(m)(4)

EDI 005030: LFH01, LFH02, & LFH04
LFH01= "PIH"
LFH02 contains "POISON-INHALATION HAZARD"
LFH04 contains hazard zone value (A, B, C, or D), all three elements are sent in the same segment.

LFH*PIH*POISON-INHALATION HAZARDB**

To display: Display as "POISON INHALATION HAZARD"
and "ZONE " followed by the value sent in LFH04.

As sent

L5*1*HAZARDOUS MATERIAL*4932359*T
...
LS*800
LH1*TK*1*UN1809**4932359*****I
LH2*8*P***RQ
LH3*PHOSPHORUS TRICHLORIDE*D
LFH*HZC*(PHOSPHORUS TRICHLORIDE)
LFH***PIH*POISON-INHALATION~
HAZARD**B**
LE*800
PER*HM**TE*1234567890

As displayed

1T/C
PHOSPHORUS TRICHLORIDE
WATER
8//UN1809//PG I
RQ (PHOSPHORUS TRICHLORIDE)
**POISON-INHALATION HAZARD
ZONE B**
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4932359

III-6. Inhalation Hazard Notation

Regulatory Reference: TDG None
49CFR 172.102(c) (1) (13)

EDI 005030: LFH01 & LFH02 LFH01 = "INH"
LFH02 contains "INHALATION HAZARD"

LFH*INH*INHALATION HAZARD

To display: Display as "INHALATION HAZARD".

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4904210*T	1T/C
...	AMMONIA, ANHYDROUS,
LS*800	LIQUEFIED
LH1*TK*1*UN1005**4904210	2.2//UN1005
LH2*2.2*P***RQ	RQ (AMMONIA)
LH3*AMMONIA, ANHYDROUS*D	INHALATION HAZARD
LH3*LIQUEFIED*D	EMERGENCY CONTACT:
LFH*HZC*(AMMONIA)	123-456-7890
LFH* INH*INHALATION HAZARD	HAZMAT STCC=4904210
LE*800	
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-7. DOT Exemption Number

Regulatory Reference: TDG None
49CFR 172.203

EDI 005030: LHR01 & LHR02 LHR01 = "HE"
LHR02 contains the numerical part of the
exemption number.

LHR*HE*12345

To display: Display following "DOT-E".

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4918511*T
...
LS*800
LH1*DR*80*NA1463**4918511*PG*40000~
***II
LH2*5.1*P***RQ
LH3*CHROMIC ACID SOLID*D
LFH*HZC*(CHROMIC ACID)
LHR***HE*12345**
LE*800
PER*HM**TE*1234567890

80 DRM 40000 LBS GROSS
CHROMIC ACID, SOLID
5.1//NA1463//PG II
RQ (CHROMIC ACID)
DOT-E12345
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4918511

III-8. DOT Special Approval Number

Regulatory Reference: TDG None
49CFR None, in special approval letter.

EDI 005030: LHR01 & LHR02 LHR01 = "S0"
LFR02 contains the numerical part of the
special approval number.

LHR*S0*89123

To display: Display following "SA-".

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4918511*T	1T/C
...	CROTONALDEHYDE, STABILIZED
LS*800	3//UN1143//PG II
LH1*TK*1*UN1143**4909137*****II	RQ (CROTONALDEHYDE)
LH2*3*P***RQ	POISON-INHALATION HAZARD
LH3*CROTONALDEHYDE, STABILIZED*D	ZONE B
LFH*HZC*(CRONTONALDEHYDE)	SA-89123
LFH*PIH*POISON-INHALATION HAZARD**B	EMERGENCY CONTACT:
LHR*S0*89123	123-456-7890
LE*800	HAZMAT STCC=4909137
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-9. DOT Competent Authority Number

Regulatory Reference: TDG None
49CFR None, in DOT's approval letter.

EDI 005030: LFH01 & LFH02 LHR01 = "HA"
LFR02 contains the numerical part of the
competent authority number.

LHR*HA*9301023

To display: Display after "CA-".

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4918511*T	1T/C
...	CROTONALDEHYDE, STABILIZED
LS*800	3//UN1143//PG II
LH1*TK*1*UN1143**4909137*****II	RQ (CROTONALDEHYDE)
LH2*3*P***RQ	POISON-INHALATION HAZARD
LH3*CROTONALDEHYDE, STABILIZED*D	ZONE B
LFH*HZC*(CRONTONALDEHYDE)	CA-9301023
LFH*PIH*POISON-INHALATION HAZARD**B	EMERGENCY CONTACT:
LHR* HA*9301023	123-456-7890
LE*800	HAZMAT STCC=4909137
PER*HM**TE*1234567890	

III-10. DOT-113 Tank Car

Regulatory Reference: TDG None
49CFR 172.203(g)(2)

EDI 005030: LFH01, LFH02 & LFH03 LFH01 = "D13"
LFH02 & LFH03 contains "DOT-113, DO NOT HUMP OR CUT OFF CAR WHILE IN MOTION".

**LFH*D13*DOT-113, DO NOT HUMP OR*CUT OFF CAR WHILE IN
LFH*D13*MOTION**

To display: Display as "DOT-113, DO NOT HUMP OR
CUT OFF CAR WHILE IN MOTION".

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4905735*T
...
LS*800
LH1*TK*1*UN1038**4905735
LH2*2.1*P
LH3*ETHYLENE REFRIGERATED*D
LH3*LIQUID*D
LFH*D13*DOT-113, DO NOT HUMP OR*~
CUT OFF CAR WHILE IN
LFH*D13*MOTION
LE*800
PER*HM**TE*1234567890

1T/C
ETHYLENE, REFRIGERATED
LIQUID
2.1//UN1038
**DOT-113, DO NOT HUMP OR
CUT OFF CAR WHILE IN
MOTION**
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4905735

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-11. Limited Quantity

Regulatory Reference: TDG None
49CFR 172.203

Note: Emergency telephone number is not required on Limited Quantity shipments in the US, but may be sent.

EDI 005030: LFH01 & LFH02 LFH01 = "LQY"
LFH02 contains "LIMITED QUANTITY"

LFH*LQY*LIMITED QUANTITY

To display: Display as "LIMITED QUANTITY" .

As sent

As displayed

Intermodal Example

L5*1*MIXED HAZARDOUS *4950155*T	1CASE 12 PTS
...	ACETONE
LS*800	3//UN1090//PG II
LH1*CA*1*UN1090**4908105*PT*12***II	LIMITED QUANTITY
LH2*3*P	HAZMAT STCC=4908105
LH3*ACETONE*D	
LFH*LQY*LIMITED QUANTITY	
LE*800	

III-12. Maximum Operating Speed

Regulatory Reference: TDG None
49CFR 172.203(g)(3)

EDI 005030: H301, LFH01, H301= "SR"
LFH02 & LFH03 LFH01 = "MOS"
LFH02 = "MAXIMUM OPERATING SPEED"
LFH03 contains the numeric speed followed
by MPH.

H3***SR**
...
LFH***MOS*15 MPH**

To display: Display "MAXIMUM OPERATING SPEED
followed by the speed restriction.

As sent

As displayed

H3***SR**
...
L5*1*HAZARDOUS MATERIAL*4941139*T
...
LS*800
LH1*C4*1*NA9259**4941139*****III
LH2*9*P
LH3*ELEVATED TEMPERATURE*D
LH3*MATERIAL, LIQUID, N.O.S.*D
LFH***MOS*15 MPH**
LE*800
PER*HM**TE*1234567890

1C/L
ELEVATED TEMPERATURE
MATERIAL, LIQUID, N.O.S.
9//NA9259//PG III
MAXIMUM OPERATING SPEED
15 MPH
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4941139

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-13. Oil Notation

Regulatory Reference: TDG None
49CFR 130.11(a)

EDI 005030: LFH01 & LFH02 LFH01 = "ADI"
LFH02 contains "(Oil)".

LFH*ADI*(OIL)

To display: Display as "(Oil)".

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4910150*T
...
LS*800
LH1*TK*1*UN1263**4910150*****III
LH2*3*P
LH3*PAINT RELATED MATERIAL*D
LFH***ADI*(OIL)**
LE*800
PER*HM**TE*1234567890

1T/C
PAINT RELATED MATERIAL
3//UN1263//PG III
(OIL)
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4910150

III-14. Manifest Document Number

Regulatory Reference: TDG None
49CFR 172.205

EDI 005030: LHR01 & LHR02 LHR01 = "MDN"
LHR02 contains the numerical part of the
manifest document number.

LHR*MDN*12345

To display: Display "Manifest Document Number" on a
line followed by the value in LHR02 on the
following line indented 2 spaces.

As sent

L5*1*HAZARDOUS MATERIAL*4860131*T
...
LS*800
LH1*C4*1*NA3077**4860131*LB*190000***III
LH2*9*P***RQ
LH3*HAZARDOUS WASTE, SOLID,*D*NOS
LH3*N.O.S.
LEP*K088
LHR*MDN*12345
N1*HZ*ABC GENERATOR
N3*1234 ANY STREET
N4*ANYTOWN*ST*99999
PER*RP**TE*9876543210
N1*HX*FIRST TRANSPORTER
N1*HX*SECOND TRANSPORTER
N1*HW*DEF DESIGNATED FACILITY
N3*789 ALL ROADS
N4*CITY*ST*88888
LE*800
PER*HM**TE*1234567890

As displayed

1C/L 190000 LB
HAZARDOUS WASTE, SOLID
N.O.S.
9//NA3077//PG III
RQ(K088)
MANIFEST DOCUMENT NUMBER
12345
ABC GENERATOR
1234 ANY STREET
ANYTOWN, ST 99999
987-654-3210
FIRST TRANSPORTER
SECOND TRANSPORTER
DEF DESIGNATED FACILITY
789 ALL ROADS
CITY, ST 88888
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC = 4860131

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-15. Generator: Name, Address & Telephone Number

Regulatory Reference: TDG None
49CFR 172.205

EDI 005030: N1, N3, N4 &
PER

N1 contains the name of the generator with N101 = "HZ".
N301 contains street address.
N4 contains the city, state and Zip code.
PER01 = "RP", PER03 = "TE", and PER04 contains the generator's telephone number.
N102, N301 & N401 are limited to 25 characters.

**N1*HZ*ABC GENERATOR
N3*1234 ANY STREET
N4*ANYTOWN*ST*99999
PER*RP**TE*9876543210**

To display:

Display after all hazardous materials information sent in LH segments, but before emergency contact number..

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4860131*
T
...
LS*800
LH1*C4*1*NA3077**4860131*LB*190000***III
LH2*9*P***RQ
LH3*HAZARDOUS WASTE, SOLID,*D*NOS
LH3*N.O.S.
LEP*K088
LHR*MDN*12345
N1*HZ*ABC GENERATOR
N3*1234 ANY STREET
N4*ANYTOWN*ST*99999
PER*RP**TE*9876543210
N1*HX*FIRST TRANSPORTER
N1*HX*SECOND TRANSPORTER
N1*HW*DEF DESIGNATED FACILITY
N3*789 ALL ROADS
N4*CITY*ST*88888
LE*800
PER*HM**TE*1234567890

1C/L 190000 LB
HAZARDOUS WASTE, SOLID
N.O.S.
9//NA3077//PG III
RQ(K088)
MANIFEST DOCUMENT NUMBER
12345
**ABC GENERATOR
1234 ANY STREET
ANYTOWN, ST 99999
987-654-3210**
FIRST TRANSPORTER
SECOND TRANSPORTER
DEF DESIGNATED FACILITY
789 ALL ROADS
CITY, ST 88888
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC = 4860131

III-16. Transporter

Regulatory Reference: TDG None
 49CFR 172.205

EDI 005030: N1 N101 = "HX"
 N102 contains the name of the transporter,
 limited to 25 characters. Repeat for each
 transporter.

N1*HX*FIRST TRANSPORTER
N1*HX*SECOND TRANSPORTER

To display: Display after data from N1 loop for generator
 in order sent.

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4860131*T	1C/L 190000 LB
...	HAZARDOUS WASTE, SOLID
LS*800	N.O.S.
LH1*C4*1*NA3077**4860131*LB*190000***III	9//NA3077//PG III
LH2*9*P***RQ	RQ(K088)
LH3*HAZARDOUS WASTE, SOLID,*D*NOS	MANIFEST DOCUMENT NUMBER
LH3*N.O.S.	12345
LEP*K088	ABC GENERATOR
LHR*MDN*12345	1234 ANY STREET
N1*HZ*ABC GENERATOR	ANYTOWN, ST 99999
N3*1234 ANY STREET	987-654-3210
N4*ANYTOWN*ST*99999	FIRST TRANSPORTER
PER*RP**TE*9876543210	SECOND TRANSPORTER
N1*HX*FIRST TRANSPORTER	DEF DESIGNATED FACILITY
N1*HX*SECOND TRANSPORTER	789 ALL ROADS
N1*HW*DEF DESIGNATED FACILITY	CITY, ST 88888
N3*789 ALL ROADS	EMERGENCY CONTACT:
N4*CITY*ST*88888	123-456-7890
LE*800	HAZMAT STCC = 4860131
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-17. Designated Facility: Name & Address

Regulatory Reference: TDG None
49CFR 172.205

EDI 005030: N1, N3, & N4 N1 contains the name of the designated facility with N101 = "HW".
N301 contains street address.
N4 contains the city, state and Zip code.
N102, N301 & N401 are limited to 25 characters.

**N1*HW*DEF DESIGNATED FACILITY
N3*789 ALL ROADS
N4*CITY*ST*88888**

To display: Display following last transporter sent.

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4860131*T	1C/L 190000 LB
...	HAZARDOUS WASTE, SOLID
LS*800	N.O.S.
LH1*C4*1*NA3077**4860131*LB*190000***III	9//NA3077//PG III
LH2*9*P***RQ	RQ(K088)
LH3*HAZARDOUS WASTE, SOLID,*D*NOS	MANIFEST DOCUMENT NUMBER
LH3*N.O.S.	12345
LEP*K088	ABC GENERATOR
LHR*MDN*12345	1234 ANY STREET
N1*HZ*ABC GENERATOR	ANYTOWN, ST 99999
N3*1234 ANY STREET	987-654-3210
N4*ANYTOWN*ST*99999	FIRST TRANSPORTER
PER*RP**TE*9876543210	SECOND TRANSPORTER
N1*HX*FIRST TRANSPORTER	DEF DESIGNATED FACILITY
N1*HX*SECOND TRANSPORTER	789 ALL ROADS
N1*HW*DEF DESIGNATED FACILITY	CITY, ST 88888
N3*789 ALL ROADS	EMERGENCY CONTACT:
N4*CITY*ST*88888	123-456-7890
LE*800	HAZMAT STCC = 4860131
PER*HM**TE*1234567890	

III-18. Special Handling Instructions

Regulatory Reference: TDG None
49CFR 172.205

EDI 005030: LFH01, LFH02 & LFH03 LFH01 = "WST"
LFH02 & LFH03 contain any special instructions.

LFH*WST*SPECIAL INSTRUCTIONS

To display: Display after designated facility address and before emergency contact number.

As sent

As displayed

L5*1*HAZARDOUS MATERIAL*4860131*T	1C/L 190000 LB
...	HAZARDOUS WASTE, SOLID
LS*800	N.O.S.
LH1*C4*1*NA3077**49860131*LB*190000***III	9//NA3077//PG III
LH2*9*P***RQ	RQ(K088)
LH3*HAZARDOUS WASTE, SOLID,*D*NOS	MANIFEST DOCUMENT NUMBER
LH3*N.O.S.	12345
LFH*WST*SPECIAL INSTRUCTION	ABC GENERATOR
LEP*K088	1234 ANY STREET
LHR*MDN*12345	ANYTOWN, ST 99999
N1*HZ*ABC GENERATOR	987-654-3210
N3*1234 ANY STREET	FIRST TRANSPORTER
N4*ANYTOWN*ST*99999	SECOND TRANSPORTER
PER*RP**TE*9876543210	DEF DESIGNATED FACILITY
N1*HX*FIRST TRANSPORTER	789 ALL ROADS
N1*HX*SECOND TRANSPORTER	CITY, ST 88888
N1*HW*DEF DESIGNATED FACILITY	SPECIAL INSTRUCTION
N3*789 ALL ROADS	EMERGENCY CONTACT:
N4*CITY*ST*88888	123-456-7890
LE*800	HAZMAT STCC = 4891031
PER*HM**TE*1234567890	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

III-19. Certification

Regulatory Reference: TDG None
49CFR 172.204

EDI 005030: LH601 LH601 contains the name of the person certifying the shipment in the US. Sent only on 404 message. Not sent on 417's or 418's.

LH6*JOHN Q. SHIPPER

To display: Not required to be displayed on any rail shipping paper.

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4909159*T	1T/C
...	ETHANOL
LS*800	3//UN1170//PG II
LH1*TK*1*UN1170**4909159*****II	EMERGENCY CONTACT:
LH2*3*P	123-456-7890
LH3*ETHANOL*D	HAZMAT STCC=4909159
LE*800	
PER*HM**TE*1234567890	
LH6* JOHN Q SHIPPER	

Note: On 404's used by a railroad as a switch bill send "CERT ON FILE ABCD RR"

Part IV
Shipping Description Entries Not Defined in Regulations

IV-1. Additional Information

Regulatory Reference: TDG None
49CFR None

EDI 005030: LFH01 & LFH02 LFH01 = "ADI"
LFH02 contains any additional information

LFH*ADI*TRIPLE DISTILLED

To display: Display data sent in LFH02's in the order sent

As sent

L5*1*HAZARDOUS MATERIAL*4908290*T
...
LS*800
LH1*TK*1*UN1255**4908290*****I
LH2*3*P
LH3*NAPHTHA*D
LFH***ADI*TRIPLE DISTILLED**
LE*800
PER*HM**TE*1234567890

As displayed

1T/C
NAPHTHA
3//UN1255//PG I
TRIPLE DISTILLED
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4908290

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

IV-2. Trade Name/Product Name

Regulatory Reference: TDG None
49CFR None

EDI 005030: LFH01 & LFH02 LFH01 = "TNM"
LFH02 contains trade name/product name.

LFH*TNM*SPECIAL SOLVENT A-1

To display: Prefix with "TN=" .

As sent

As displayed

Intermodal Shipment

L5*1*HAZARDOUS MATERIAL*4910185*T	12 DRM	5200 LBS
...	FLAMMABLE LIQUIDS,N.O.S.	
LS*800	(CONTAINS ACETONE)	
LH1*DR*12*UN1993**4910185*LB*5200***II	3//UN1993//PG II	
LH2*3*P	TN=SPECIAL SOLVENT A-1	
LH3*FLAMMABLE LIQUIDS,N.O.S.*D*NOS	EMERGENCY CONTACT:	
LFH*TEC*(CONTAINS ACETONE)	123-456-7890	
LFH* TNM*SPECIAL SOLVENT A-1	HAZMAT STCC=4910185	
LE*800		
PER*HM**TE*1234567890		

IV-3. Shipper Contact

Regulatory Reference: TDG None
49CFR None

EDI 005030: PER02 PER02 contains name of shipper contact. It is sent in the same PER segment as the Emergency Contact Phone Number. Used when the originator of the goods is different than the shipper shown in the N1 segment.

PER*HM***ABC ALCOHOL***TE*1234567890

To display: Display after "Emergency Contact" entry, prefix with "Shipper Contact:"

As sent

As displayed

Intermodal Contact

L5*1*MIXED HAZARDOUS *4950150*T	10 DRM	5500 LBS
...	ISOPROPANOL	
LS*800	3//UN1219//PG II	
LH1*DR*10*UN1219**4909205*LB*5500***II	EMERGENCY CONTACT:	
LH2*3*P	123-456-7890	
LH3*ISOPROPANOL*D	SHIPPER CONTACT	
LE*800	ABC ALCOHOL	
PER*HM* ABC ALCOHOL *TE*1234567890	HAZMAT STCC=4909205	

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

IV-4. Hazardous Materials Response Code Number

Regulatory Reference: TDG None
49CFR None

EDI 005030: LH105 LH105 contains the 7-digit 48-series STCC number, or the 49-series HMRC number.

LH1*TK*1*UN1090****4908105*******II

To display: Display number after "HAZMAT STCC=".

As sent	As displayed
L5*1*HAZARDOUS MATERIAL*4908105*T	1T/C
...	ACETONE
LS*800	3//UN1090//PG II
LH1*TK*1*UN1090** 4908105 *****II	RQ (ACETONE)
LH2*3*P***RQ	EMERGENCY CONTACT:
LH3*ACETONE*D	123-456-7890
LFH*HZC*(ACETONE)	HAZMAT STCC=4908105
LE*800	
PER*HM**TE*1234567890	

Part V
Examples Of How To Handle Specific Situations

V-1. Damaged Residue Cars Moving On Flat Cars

Regulatory Reference: None

EDI 005030: N7, LH109, LFH01 & LFH02

N701 & N702 Contains the equipment initial and number of the flat car.
LH109 = "P"
LFH01 = "DRC"
LFH0 contains the equipment initial and number of the wrecked car. The first four positions are for the equipment initial which are left justified and space filled. The next six positions are for the equipment number which are right justified and space filled.

LH1*UN*1*UN1830**4930040****P*II
LFH*DRC*ABCX123456

To display: Display the damaged car initial and number in the hazardous description following "DAMAGED CAR NUMBER"

As sent	As displayed
N7*RR*987654*****RR	1 UNIT
...	RESIDUE: LAST CONTAINED
L5*1*HAZARDOUS MATERIAL*4950190*T	ETHANOL
...	3//UN1170//PG II
LS*800	DAMAGED CAR NUMBER
LH1*UN*1*UN1170**4909159****P*II	ABCX 123456
LH2*3*P	EMERGENCY CONTACT:
LH3*ETHANOL*D	123-456-7890
LFH*DRC*ABCX123456	HAZMAT STCC=49309159
LE*800	
PER*HM**TE*1234567890	

When a damaged car carrying a residue of a hazardous material is transported on a flat car for repairs or dismantling, the waybill record should be created and transmitted as described here.

The waybill should be created using the car initial and number of the flat car, transmitted in the N7 segment. The waybill record should have as it's primary STCC transmitted in the L5 segment either:

- 4950190 - Flat car with damaged car to be repaired, or
- 4950191 - Flat car with damaged car to be scrapped.

The hazardous description of the residue in the damaged car should be entered and passed in the LH segments of the waybill record. Included in this description should be the equipment initial and number of the damaged car, passed in the LFH segment.

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

Although rare, it could occur where a loaded hazardous car is transported on a flat car. If that occurs, the information should be transmitted the same as above, except the Residue Indicator 'P' in the LH109 should be omitted and the LH109 left blank.

V-2. Intermodal Containers Moving on Other Than Flat Cars

<i>Regulatory Reference:</i>	None
<i>EDI 005030:</i>	N7, LH101 & LH102, LFH01 & LFH02
	N701 & N702 Contains the equipment initial and number of the carrying car. LH101 = UN LH102 = 1. LFH01 = "EQP" LFH02 contains the equipment initial and number of the container. The first four positions are for the equipment initials, which are left justified and space filled. The next six positions are for the equipment number which are right justified and space filled. A separate LH loop is required for each container.

LH1*UN*1*NA3077**4860130*****III
LFH*EQP*NONU123456

<i>To display:</i>	Display the container initial and number in the hazardous description following "TRANSPORTED IN"
--------------------	--

As sent	As displayed
N7*RR*987654*****RR	1 UNIT
L5*1*HAZARDOUS MATERIAL*4850190*T	HAZARDOUS WASTE, SOLID, N.O.S.
...	9//NA3077//PG III
LS*800	RQ (K088)
LH1*UN*1*NA3077**4860130*****III	TRANSPORTED IN
LH2*9*P***RQ	NONU123456
LH3*HAZARDOUS WASTE,*D	EMERGENCY CONTACT:
LH3*N.O.S.*D	123-456-7890
LFH*EQP*NONU123456	HAZMAT STCC=4860130
LEP*K088	1 UNIT
LH1*UN*1*NA3077**4860130*****III	HAZARDOUS WASTE,
LH2*9*P***RQ	SOLID, N.O.S.
LH3*HAZARDOUS WASTE,*D	9//NA3077//PG III
LH3*N.O.S.*D	RQ (K088)
LFH*EQP*NONU234567	TRANSPORTED IN
LEP*K088	NONU234567
LE*800	EMERGENCY CONTACT:
PER*HM**TE*1234567890	123-456-7890
	HAZMAT STCC=4860130

When an intermodal container is transported on a rail car other than an flat car, e.g., gondola, the waybill record should be created and transmitted as described here.

Intermodal containers moving on flat cars are to be billed as intermodal shipments.

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

V-3. Hybrid Shipments Military (Carload/Intermodal on One Rail Car)

Regulatory Reference: None

EDI 005030: N701 & N702 N701 & N702 Contains the equipment initial and number of the carrying car.
LFH02 & LFH03 LH101 = UN
LH102 = 1
LFH01 = "EQP"
LFH02 contains the equipment initial and number of each Seavan, vehicle, trailer, etc., containing hazardous materials. If vehicle does not have a reporting mark, indicate what it is e.g., truck, trailer, etc., followed by its stenciled number. If a package, such as a crate, is not loaded in a vehicle, but directly on the rail car, the LH loop for this hazardous material would not include an "LFH*EQP" segment.

A separate LH loop is required for each hazardous material.

LFH*EQP*TRAILER 123456

To display: Display the container initial and number in the hazardous description following "TRANSPORTED IN "

As sent	As displayed
N7*RR*987654*****RR	3 DR 15 GAL
L5*1*HAZARDOUS MATERIAL*4950167*T	GASOLINE
	3//UN1203//PG II
LS*800	TRANSPORTED IN
LH1*DR*3*UN1203**4908175*GA*15***II	TRAILER 123456
LH2*3*P	EMERGENCY CONTACT:
LH3*GASOLINE*D	123-456-7890
LFH*EQP*TRAILER 123456	HAZMAT STCC=4908175
LH1*CL*2*UN1075**4905752	123-456-7890
LH2*2.1*P	2 CYL
LH3*PETROLEUM GASES,*D	PETROLEUM GASES,
LH3*LIQUEFIED*D	LIQUEFIED
LFH*EQP*TRUCK 234567	3//UN1075
LE*800	TRANSPORTED IN
PER*HM**TE*1234567890	TRUCK 234567
	EMERGENCY CONTACT:
	123-456-7890
	HAZMAT STCC=4905752

V-4. Fumigated Shipment, Not Containing Dangerous Goods

Regulatory Reference: TDG 3.5.3
49CFR None
IMO Volume 1, Amendment 30, 5.5.2

EDI 005030: LH Loop LH101 =- "UN", LH102 = '1'
LFH01 = "FUM".
LFH02 & LFH03 contains the fumigant,
quantity of fumigant and date of fumigation.
Note: International description has no
Packing Group.

Note: Send as though a single hazardous materials
shipment.

To display: Display in association with hazardous
materials shipping description.

As sent

```
L5*1*DANGEROUS GOODS*4961102*T  
...  
LS*800  
LH1*UN*1*UN3359**4961102*GR*50  
LH2*9*P  
LH3*CARGO TRANSPORT UNIT*I  
LH3* UNDER FUMIGATION*I  
LFH*FUM*(METHYL BROMIDE, 50 GRAM~  
*****20020608  
LE*800
```

As displayed

```
1 UNIT  
CARGO TRANSPORT UNIT  
UNDER FUMIGATION  
(METHYL BROMIDE, 50 GRAM  
FUMIGATED 20020608)  
9//UN3359  
HAZMAT STCC = 4961102
```


**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

V-5. Fumigated Shipment, Containing Dangerous Goods

Regulatory Reference: TDG 3.5.3
49CFR None
IMO Volume 1, Amendment 30, 5.5.2

EDI 005030: LH Loop LH101 =- "UN", LH210 = '1'
LFH01 = "FUM".
LFH02 & LFH03 contains the fumigant,
quantity of fumigant and date of fumigation.
Note: International description has no
Packing Group.

Note: Send as mixed hazardous materials shipment, with
the fumigation information sent in the first LH loop.

To display: Display in association with hazardous
materials shipping description.

As sent

```
L5*1*DANGEROUS GOODS*4950130*T
...
LS*800
LH1*UN*1*UN3359**4961102*GM*50
LH2*9*P
LH3*CARGO TRANSPORT UNIT*I
LH3* UNDER FUMIGATION*I
LFH*FUM*(METHYL BROMIDE~
*****20020608
LE*800
```

As displayed

```
1 UNIT
CARGO TRANSPORT UNIT
UNDER FUMIGATION
(METHYL BROMIDE, 50 GRAM
FUMIGATED 20020608)
9//UN3359
HAZMAT STCC = 4961102
```

V-6. International Consignor/Consignee – Container Load Shipment

Regulatory Reference: TDG 3.5(1)(a)
49CFR None

EDI 005030: N1, N3, & N4

N1 contains the name of the consignor with N101 = "SF".
N1 contains the name of the consignee with N101 = "UC", "IM", or "BN".
N301 contains street address.
N4 contains the city, postal code, and country of origin codes. N402 is omitted for countries other than Canada, Mexico, or United States, when country of origin is not available.
N102, N301 & N401 are limited to 25 characters.

**N1*S F*ABC CONSIGNOR
N3*1234 ANY STREET
N4*ANYTOWN*NA*PCODE*CC
N1*UC*DEF CONSIGNEE
N3*789 ALL ROADS
N4*CITY*ST*12345*US**

Where PCODE = postal code & CC = country code

To display: Display in association with hazardous materials shipping description.

As sent

As displayed

<pre> ... N1*S F*ABC CONSIGNOR N3*1234 ANY STREET N4*ANYTOWN*NA*PCODE*CC N1*UC*DEF CONSIGNEE N3*789 ALL ROADS N4*CITY*ST*12345*US ... L5*1*DANGEROUS GOODS*4950150*T ... LS*800 LH1*DR*80*UN1830**4930040*KG*15000***II LH2*8*P LH3*SULPHURIC ACID*I LE*800 PER*HM**TE*1234567890 </pre>	<pre> ABC CONSIGNOR 1234 ANY STREET ANYTOWN, 12345 CC DEF CONSIGNEE 789 ALL ROADS CITY, ST 12345 US ... 80 DR 15000 KG SULPHURIC ACID CLASS 8//UN1830//PG II EMERGENCY CONTACT: 123-456-7890 HAZMAT STCC = 4930040 </pre>
--	---

**DANGEROUS GOODS/HAZARDOUS
MATERIALS EDI MAPPING**

V-7. International Consignor/Consignee - Less Than Container Load

Regulatory Reference: TDG 3.5(1)(a)
49CFR None

EDI 005030: N1, N3, & N4

N1 contains the name of the consignor with N101 = "SH".
N1 contains the name of the consignee with N101 = "CN".
N301 contains street address.
N4 contains the city, postal code, and country of origin codes. N402 is omitted for countries other than Canada, Mexico, or United States, when country of origin is not available.
N102, N301 & N401 are limited to 25 characters.

**N1*SH*ABC CONSIGNOR
N3*1234 ANY STREET
N4*ANYTOWN*NA*PCODE*CC
N1*CN*DEF CONSIGNEE
N3*789 ALL ROADS
N4*CITY*ST*12345*US**

Where PCODE = postal code & CC = country code

To display: Display in association with hazardous materials shipping description.

As sent

As displayed

...	
...	
L5*1*DANGEROUS GOODS*4950150*T	1 BX 25 KG
...	SULPHURIC ACID
LS*800	CLASS 8//UN1830//PG II
LH1*BX*1*UN1830**4930040*KG*25***II	ABC CONSIGNOR
LH2*8*P	1234 ANY STREET
LH3*SULPHURIC ACID*I	ANYTOWN, 12345 CC
N1*SH*ABC CONSIGNOR	DEF CONSIGNEE
N3*1234 ANY STREET	789 ALL ROADS
N4*ANYTOWN*NA*PCODE*CC	CITY, ST 12345 US
N1*CN*DEF CONSIGNEE	EMERGENCY CONTACT:
N3*789 ALL ROADS	123-456-7890HAZMAT
N4*CITY*ST*12345*US	HAZMAT STCC = 4930040
LE*800	
PER*HM**TE*1234567890	

V-8. Mixed Load/Multiple LH Loops

Regulatory Reference: TDG None
49CFR None

EDI 005030: L5 L501 = '1', L503 must contain a "48-501-NN" or a 49-501-NN code.

Note: For multi-compartment tank cars and ISO tanks, this must be a 48- or 49- 501- 10 or 20.

LH Loop One LH loop per dangerous good/hazardous material and loop utilizes all LH segments and elements necessary to describe commodity.

To display: Display in association with hazardous materials shipping description.

As sent

As displayed

```
L5*1*HAZARDOUS MATERIAL*4950130*T
...
LS*800
LH1*DR*1*UN1170**4909159*LB*500***II
LH2*3*P
LH3*ETHYL ALCOHOL*D
PER*HM**TE*1234567890
LH1*DR*1*UN1090**4908105*LB*525***II
LH2*3*P
LH3*ACETONE*D
LFH*HZC*(ACETONE)
LE*800
PER*HM**TE*1098765432
```

```
1 DR 500 LB
ETHYL ALCOHOL
3//UN1170//PG II
EMERGENCY CONTACT:
123-456-7890
HAZMAT STCC=4909159

1 DR 525 LB
ACETONE
3//UN1090//PG II
EMERGENCY CONTACT:
109-876-5432
HAZMAT STCC=4908105
```