

HM DOCUMENTATION REQUIREMENTS

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If I wanted to offer or transport Hazardous Materials, where would I begin?



Registration of persons who offer or transport hazmat ~ §107.601

The registration & fee requirements of this subpart apply to any person who **offers for transportation**, or **transports**, in foreign, interstate or intrastate commerce:

- (a) Any highway route-controlled quantity of Class 7 (Radioactive)
- (b) More than 55 lbs. Of Div. 1.1, 1.2 or 1.3
- (c) More than 1 liter (*1.06 qts*) per package of PIH, Zone A
- (d) A bulk packaging of Hazmat for liquids or gases having a capacity equal to or greater than 13,248 L (*3,500 gals*) or more than 13.24 cubic meters (*468 cubic feet*) for solids, or
- (e) A shipment in other than a bulk packaging of 2,268 kg (*5000 lbs*) gross wt. or more of one class of hazmat for which placarding is required for that class.
- (f) A quantity of hazmat that requires placarding, *except farming operations*.

Small business fee = \$275/yr

Large business fee = \$1325/yr

Exceptions to Registering with DOT - §107.606

- An agency of the Federal Government
- An agency of the State
- An agency of a political subdivision of a State
- An employee of any of the agencies above
- A hazmat employee if the vehicle that transports hazmat is leased to a registered motor carrier under a 30-day or longer lease per 49 CFR Part 1057
- A person domiciled outside the U.S., who offers solely from a location outside the U.S., provided that country does not require those persons to register with DOT in the U.S.

A “**person**” means an individual, corporation, company, association, firm, partnership, society, joint stock company; or a government, Indian tribe, or authority of a government or tribe offering a hazardous material for transportation in commerce or transporting an HM to support a commercial enterprise. ~ §171.8

DOT Hazmat Registration Certificate

**PHMSA
Registration Desk
(202) 366-4109 or
366-0461**

**You can also register
with PHMSA via:
phmsa.dot.gov
Click – “HM Safety”
Click “How Do I
Register”**

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION



**HAZARDOUS MATERIALS
CERTIFICATE OF REGISTRATION
FOR REGISTRATION YEAR(S) 2009-2010**

Registrant: THE DOW CHEMICAL COMPANY
Attn: PHILIP STEWART
2020 DOW CENTER
MIDLAND, MI 48674

This certifies that the registrant is registered with the U.S. Department of Transportation as required by 49 CFR Part 107, Subpart G.

This certificate is issued under the authority of 49 U.S.C. 5108. It is unlawful to alter or falsify this document.

Reg. No: 060209 550 015R Issued: 03/09/2010 Expires: 06/30/2010

Record Keeping Requirements for the Registration Program

The following must be maintained at the principal place of business for a period of three years from the date of issuance of this Certificate of Registration:

- (1) A copy of the registration statement filed with PHMSA; and
- (2) This Certificate of Registration

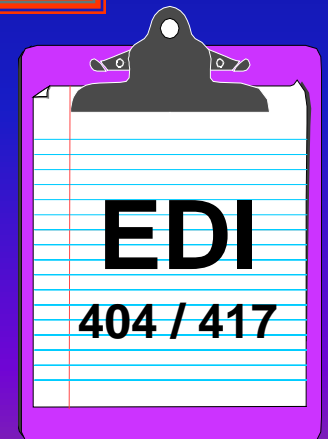
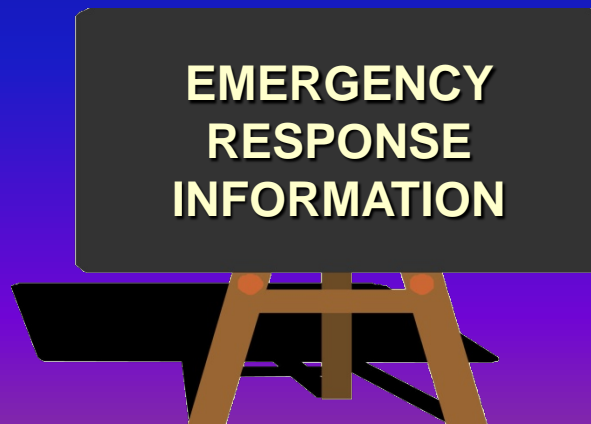
Each person subject to the registration requirement must furnish that person's Certificate of Registration (or a copy) and all other records and information pertaining to the information contained in the registration statement to an authorized representative or special agent of the U. S. Department of Transportation upon request.

Each motor carrier (private or for-hire) and each vessel operator subject to the registration requirement must keep a copy of the current Certificate of Registration or another document bearing the registration number identified as the "U.S. DOT Hazmat Reg. No." in each truck and truck tractor or vessel (trailers and semi-trailers not included) used to transport hazardous materials subject to the registration requirement. The Certificate of Registration or document bearing the registration number must be made available, upon request, to enforcement personnel.

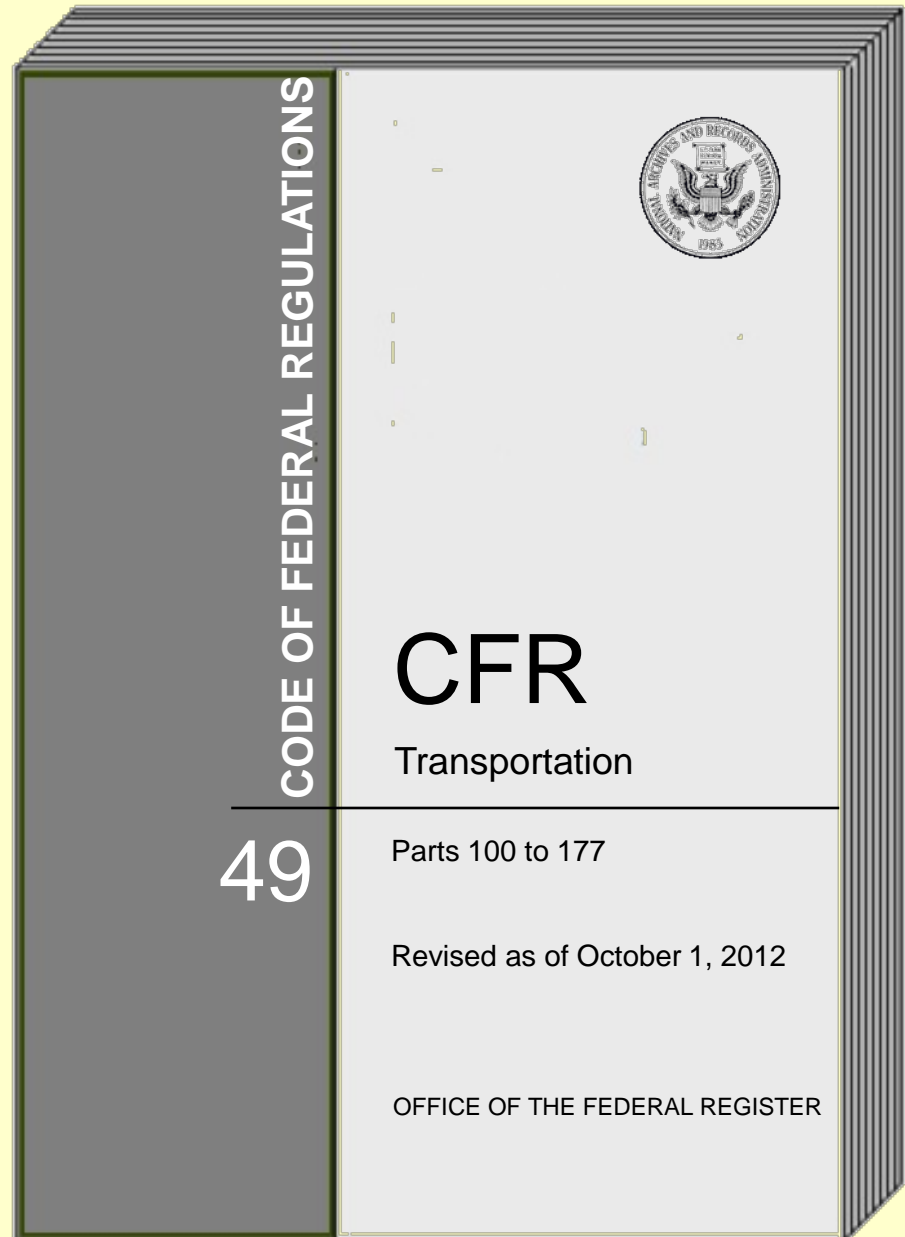
For information, contact the Hazardous Materials Registration Manager, PHH-62, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, 1200 New Jersey Avenue, SE, Washington, DC 20590, telephone (202) 366-4109.



HM SHIPPING PAPERS



**DOT Hazmat
Communication
Requirements
Shipping
Papers
Part 172 Subpart C**



Shipping Papers

General

Basic Description *(in sequence)*

- **Identification Number**
- **Proper Shipping Name**
- **Hazard Class * *or* Division** *(if applicable)*
- **Packing Group** *(if applicable)*

* The subsidiary hazard class must be shown in parentheses immediately following the primary class or division number. For domestic, the subsidiary hazard class may be shown following the basic description ~ §§172.202(a)(3)

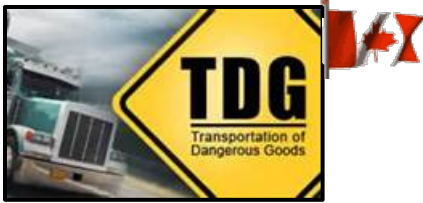
Hazmat Shipping Paper Description Sequence



49 CFR – The basic description sequence became mandatory on **1-1-2013** (*i.e.*, **ID number**, *Proper Shipping Name, Hazard Class, Packing Group*).



TDG (Canadian Regulations) – Section 3.5.7 :
The Canadians have not yet adopted the international standard for shipping paper (documentation). The old sequence (*i.e.*, **PSN**, *Hazard Class, ID number, PG*) remains in effect. Since, the Agreement of Reciprocity (§171.22) states that DOT will accept HM shipments from Canada that are in compliance with TDG (*no limitation applicable*), DOT is obligated to **accept the old description sequence** on Canadian shipments.



Canadian HM Shipping Paper Description Sequence

3.5 Information on a Shipping Document

- (1) The following information must be included on a shipping document:
- (a) the name and address of the place of business in Canada of the consignor;
 - (b) the date the shipping document or an electronic copy of it was prepared or was first given to a carrier;
 - (c) the description of each of the dangerous goods, in the following order:
 - (i) the **shipping name** and, immediately after the shipping name unless it is already part of it,
 - (A) for dangerous goods that are subject to special provision 16 in Schedule 2, the technical name, in parentheses, of the most dangerous substance related to the primary class, and
 - (B) for a liquefied petroleum gas that has not been odorized, the words “Not Odorized” or “Not Odourized” or “Sans odorisant”,
 - (ii) the **primary class**, which may be shown as a number only or under the heading “Class” or “Classe” or following the word “Class” or “Classe”, **SOR/2002-306**



Canadian HM Shipping Paper Description Sequence

(iii) for dangerous goods with a primary class of Class 1, Explosives, the compatibility group letter following the primary class,

(iv) the **subsidiary class or classes, in parentheses**, which may be shown as a number only or under the heading “subsidiary class” or “classe subsidiaire” or following the words “subsidiary class” or “classe subsidiaire”, except that for transport by aircraft or by ship the subsidiary class or classes may be shown after the information required by this paragraph, **SOR/2008-34**

(v) the **UN number**, and **SOR/2008-34**

(vi) the **packing group** roman numeral, which may be shown under the heading “PG” or “GE” or following the letters “PG” or “GE” or the words “Packing Group” or “Groupe d'emballage”; **SOR/2008-34**

(vii) **Repealed SOR/2008-34**

GASOLINE, 3, UN1203, II

GASOLINE, Class 3, UN1203, PG II

ISOBUTYLAMINE, Class 3, Subsidiary Class (8), UN1214, II

ISOBUTYLAMINE, Class 3(8), UN1214, Packing Group II **SOR/2008-34**

(7) Despite subparagraph (1)(c)(v), the UN number required in the description of each of the dangerous goods may be included in the shipping document before the shipping name. SOR/2005-216

Shipping Paper General Entries

When the *Hazmat* shipment is described on the same shipping paper with other *Non-Hazardous* shipments :

- ✓ Must be entered **first**, *or*
 - ✓ Must be entered in a **color** that clearly contrast with any Non-HM descriptions, *or*
 - ✓ Must be identified by an “**X**” or an “**RQ**” (*if appropriate*) placed before the proper shipping name in a column captioned “**HM**”
-
- ✓ Printed in **English**
 - ✓ No abbreviations or codes, unless *authorized by the CFR*
 - ✓ May contain **additional information** providing the information is **not inconsistent** with the required description & must be placed **after** the basic description.

STRAIGHT BILL OF LADING - SHORT FORM

Original - Non Negotiable

Received, subject to the classifications and tariffs in effect on the date of issue

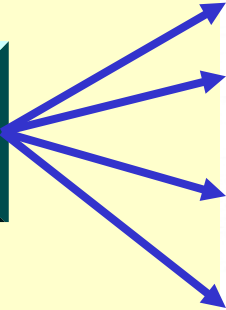


(Name of Carrier) East Texas Pacific R.R.			DATE: July 4, 2012		
TO: Bubba's Sushi Bar & Bait Shop, Inc.			FROM: Exotic Fish & Chemical Co.		
STREET 1 Possum Hollow Expressway			STREET 500 Chemical Row Dr.		
CITY Cut & Shoot	STATE TX	ZIP 77223	CITY Delbert	STATE TX	ZIP 76611

DESCRIPTIONS OF ARTICLES

Reporti ng Mark	No. Shippi ng Units	(X) HM	KIND OF PACKAGING, DESCRIPTION OF ARTICLES, SPECIAL MARKS & EXCEPTIONS	WEIGHT	FREIGHT CHARGES
GATX 88744	1 T/C		UN 1090, Acetone, 3, PGII, RQ	100,000 lbs	PREPAID
					COLLECT
GATX 88744	1 T/C		UN 1090, Acetone, 3, PGII, RQ	100,000 lbs	Subject to Sec. 7 of the conditions. The carrier shall not make delivery of this shipment without payment of freight
GATX 88744	1 T/C	X	UN 1090, Acetone, 3, PGII, RQ	100,000 lbs	
GATX 88744	1 T/C	RQ	UN 1090, Acetone, 3, PGII, RQ	100,000 lbs	
ACFX 55621	1 T/C		Corn Syrup	90,000 lbs	

Examples



This is to certify that the above-named articles are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

SIGNATURE: *Freddy Fender* DATE:

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted, marked, consigned and destined as indicated above which said carrier agrees to carry to its usual place of delivery at said destination.

EMERGENCY CONTACT: **Chemtrec 1-800-4249300 (Exotic Fish & Chemical Co.)**

Additional Description Requirements – 172.203

- ✓ **“RESIDUE : Last Contained”** (required for tank cars) - *see next slide*
- ✓ **“Waste”** – precedes PSN for Haz. Waste shipment - *see §172.101(c)(9).*
- ✓ **“RQ”** – Reportable Quantity of a Hazardous Substance
- ✓ **“HOT”** immediately precedes PSN for Elev. Temp. Material
- ✓ Technical names for certain **“N.O.S.”** - *see §172.203(k)*
- ✓ **“Poison-Inhalation Hazard” & “Zone *”** – *see §172.203(m)*
(*The word Toxic & Poison are interchangeable !*)
- ✓ **“Marine Pollutant”** – in parentheses – *see §172.203 (l)*
- ✓ **DOT Special Permit Number** – *see §172.203(a)*
- ✓ **“Limited Quantity”** or **“Ltd Qty”**
- ✓ **“DOT 113 – Do Not hump or cut off car in motion”** – *see §172.203(g)(2)*

Question? For residue HM shipments transported in the U.S., where may the notation “**RESIDUE: Last contained**” be placed in the shipping description - *required for residue tank car shipments – 172.203(e)(2) ?*

Per HM-218G, the residue notation may be placed either:

Effective: May 10, 2013

- ✓ **Before** the basic description:
RESIDUE: Last contained / UN1978 / Propane / 2.1
- ✓ **After** the basic description:
UN1978 / Propane / 2.1 / **RESIDUE: Last contained**
- ✓ **Preceding the proper shipping name:**
UN1978 / **RESIDUE: Last contained** Propane / 2.1

Note: The term “**Empty Uncleaned**” may be substituted for residue HM shipments transported by vessel under the IMDG Code – 171.22

Additional Shipping Paper Description Requirements



The word “**Non-odorized** or **Not-odorized**” must be included in association with the proper shipping description on a shipping paper when non-odorized LPG is offered for transportation. - §172.203(p)

Bill of Lading Example

UN1075 / Petroleum gases, liquefied / 2.1 / **Non-odorized**

Shipper's Certification



- Required on a shipping paper offered by the shipper for all “**loaded**” shipments & residue shipments **other than tank cars!** - §172.204(a)
- May be signed manually or by mechanical means!
- **Not** required for: - §172.204(b)(2)
 - ✓ *Residue shipments of tank cars*
 - ✓ *Cleaned & purged tanks*
- For transportation by rail, the signature on EDI transaction sets must be one of the following: name of principal person, partner, officer or employee of the offeror or his agent.

Option 1: This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Option 2: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

International Shipments - Certification

The shipper, directly or through the forwarding agent at the place of entry, must provide the initial U.S. carrier with the **shipper's certification** required in §172.204 of this subchapter, unless the shipment is otherwise excepted from the certification requirement. ~ §171.22(f)(2)

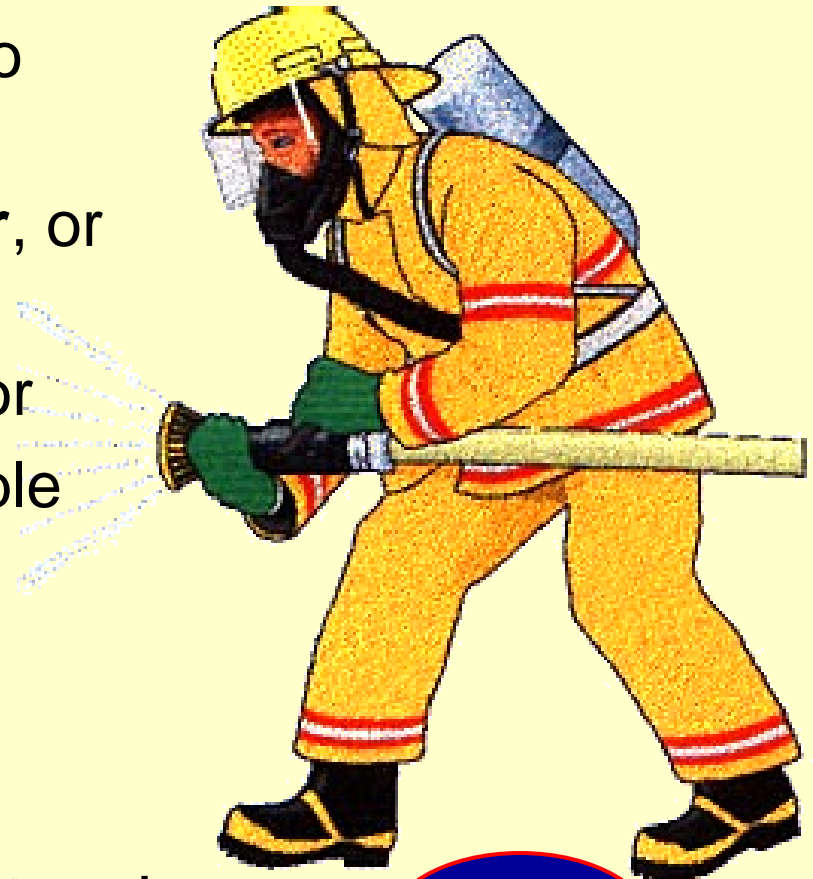


Question? Who is the “initial U.S. carrier” – the steamship company or the railroad?



Emergency Response Information

- Made **immediately available** to responders!
- Entered on the **shipping paper**, or
- In a **document**, *other than a shipping paper* (e.g. MSDS), or
- **Cross reference** with acceptable emergency response material (e.g. ERG, IMO, AAR, etc)
- Maintained **at the facility** & immediately accessible
- In the **possession of transporters** !



Part 172
Subpart G

§172.604

Emergency Response Telephone Number



- ✓ Entered on the **Shipping Paper** !
- ✓ Monitored at all times **during transportation** !
- ✓ Responsible & knowledgeable party with **detailed information** !
- ✓ Shipper may use **contractors/service providers** that are capable & accept responsibility
- ✓ If the shipper uses an emergency response service provider, the contracting person (by **name** or **contract number**) must be entered on the shipping paper - §172.201(d)
- ✓ Both **Shipper & Carrier** are responsible !

Emergency Response Information

- ✓ Emergency Response telephone # outside the U.S. are authorized providing the **international access code is provided** in a manner needed to complete the call.
- ✓ The name of the offeror is **not** required to be listed in association with the ER number providing the offeror's name is **clearly listed elsewhere on the shipping paper**.
- ✓ When the ER number is that of a 3rd party, the shipper who registered with the 3rd party must be identified by placing its **name or the contract number** in association with the ER number.
- ✓ **Freight forwarders are also responsible** for ensuring that the ER number is linked to the shipper who registered with the 3rd party.
- ✓ The requirement does **not** apply to **fumigated** non-hazmat shipments (*e.g., furniture, logs, grain, etc*)



Hazardous Waste Shipments

No person may offer, transport, transfer, or deliver a hazardous waste unless an EPA Form 8700-22 & 8700-22A (*when necessary*) **hazardous waste manifest** is prepared in accordance with 40 CFR 262.20 & is signed, carried, and given as required of that person by this section. - §172.205 (a)

Rail transporters must ensure that a **shipping paper** containing all the information required on the manifest (*excluding the EPA identification numbers, generator certification & signatures*) **accompanies** the hazardous waste at all times. - §172.205 (f)(2)

The **person delivering a hazardous waste to an initial rail carrier** shall send a copy of the manifest, dated & signed by a representative of the rail carrier, to the person representing the designated facility. - §172.205 (g)

A hazardous waste manifest required by 40 CFR part 262, containing all of the information required by this subpart, **may be used as the shipping paper** required by this subpart. - §172.205 (h)



Hazardous Waste Shipments

Residue of Hazardous Waste in Empty Containers

With some exceptions, residue hazardous waste containers are **NOT subject to EPA regulations, but may be subject to DOT requirements !**

These exceptions in **40 CFR 261.7** are:

- ✓ **1 inch** (2.5 centimeters) or more of residue remains in the container, *or*
- ✓ **3% or more** by weight of total capacity of the container, if the container is <110 gals in size (*Ex: 100 gals capy = 900 lbs X 3% = 27 lbs*)
- ✓ **.3% or more** by weight of total capacity of the container, if the container is >110 gals in size (*Ex: 20,000 gals capy = 160,000 lbs X .3% = 498 lbs*)
- ✓ A compressed gas container is considered empty when the pressure in the container approaches atmospheric

EPA requires that a Hazardous Waste Manifest be offered for any container that does **NOT** meet the minimum residue requirements per 40 CFR 261.7 !!

Hazmat Shipping Description

NATX 36214

Reporting Mark & Number

1 Tank Car

ID Number

Hazardous Substance

Proper Shipping Name

Hazard Class & Subsidiary

RQ/ UN 1017 / Chlorine/ 2.3 (8) / Toxic-Inhalation Hazard, Zone B/ Marine Pollutant

PIH Material

Marine Pollutant

EMERGENCY CONTACT: (800) 424-9300 (Contract # 12345)

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Elmer Fudd

STCC Codes

Standard Transportation Commodity Codes



➤ Utilized in the **RAIL** industry

➤ **Not regulated by DOT !**

➤ 7 digit code

49 ***** denotes Hazmat shipment

48 ***** denotes a Hazardous Waste shipment

Dangerous Endorsement (not required by DOT)

Car initial & no

Equip. Type

Carrier Waybill



802 - UNION PACIFIC RAILROAD COMPANY - 802

* DANGEROUS *

Shipper ID #

Release date

Waybill #

DUPX 026045

T

7280491902

11 17 04

INFO COPY 432790 PAGE 1

58334 NORTH CHATTANOOGA TN

52650 ORANGE TX
6465 ST LOUIS MO 63103
13 TH & OLIVE, ROOM 400 DESK 7

Origin location

UP, NEWOR NS

Route

INVISTA S.A.R.L.

Shipper

INVISTA S.A.R.L.
4501 N ACCESS RD
CHATTANOOGA

Consignee

TN 37415

DO NOT WEIGH - SHIPPER CERT SCALE

SHPR. CERTIFIED SCALE WEIGHTS
LOADED FULL VISIBLE / SHELL CAP

TO BE PREPAID

4935640

STCC Code

WEIGHT AND CHARGES TO FOLLOW

1/TC
HEXAMETHYLENEDIAMINE, SOLID

177,350

Net Wt.

8
UN2280
PG III

HM shipping description

EMERGENCY CONTACT:
8004249300 (Contact #75432)
HAZMAT STCC = 4935640
HEXAMETHYLENEDIAMINE,
SOLID
ID=037140147TP1
1 CAR RAIL, TANK

802 - UNION PACIFIC RAILROAD COMPANY - 802

Retention Requirements for Hazmat Shipping Papers

§172.201 (e)

Shipping Papers (*Shipper & Carrier*) =

2 years after the exact date the document is accepted by the initial carrier.

Hazardous Waste Manifest (*Generator & Carrier*) =

3 years after the material is accepted by the initial carrier.

Electronic Data Interchange (EDI)



in
Rail Transportation

Electronic Shipping Papers

- 172.201(a)(5)

- The **carrier** may prepare the shipping paper on behalf of the offeror; however the offeror must **receive a copy** of the shipping paper from the carrier.
- If the carrier generates a residue shipping paper from information received from the loaded movement, the description must **comply with the offeror's request**.
- The carrier & offeror must have a procedure by which the offeror can **verify the accuracy** of the information.

EDI Format Basics

A Transaction Set equates to a paper document !

- **ST** to start the Transaction Set & **SE** to end

Most common Transaction Sets used to transport Hazmat by rail:

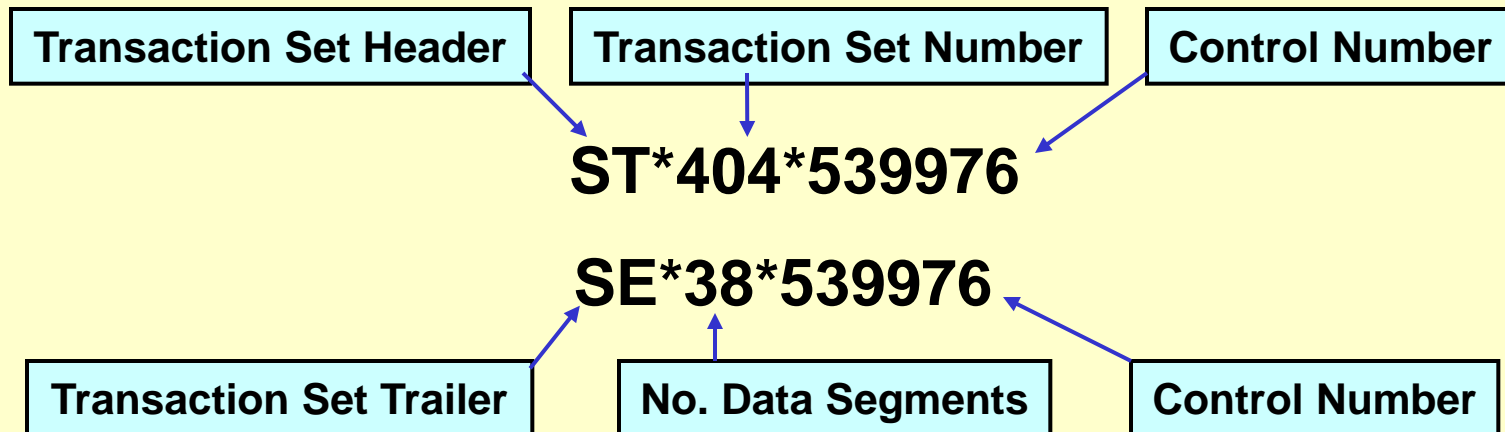
404 – Rail Carrier Shipment Information (*Bill of Lading*)

417 – Rail Carrier Waybill Interchange (*Waybill*)

418 – Rail Advance Interchange Consist (*Delivery between rail carriers*)

824 – Application Advice (*Acknowledgement notice, including an explanation for a rejection*)

997 – Functional Acknowledgement (*Acceptance notice – electronic receipt*)

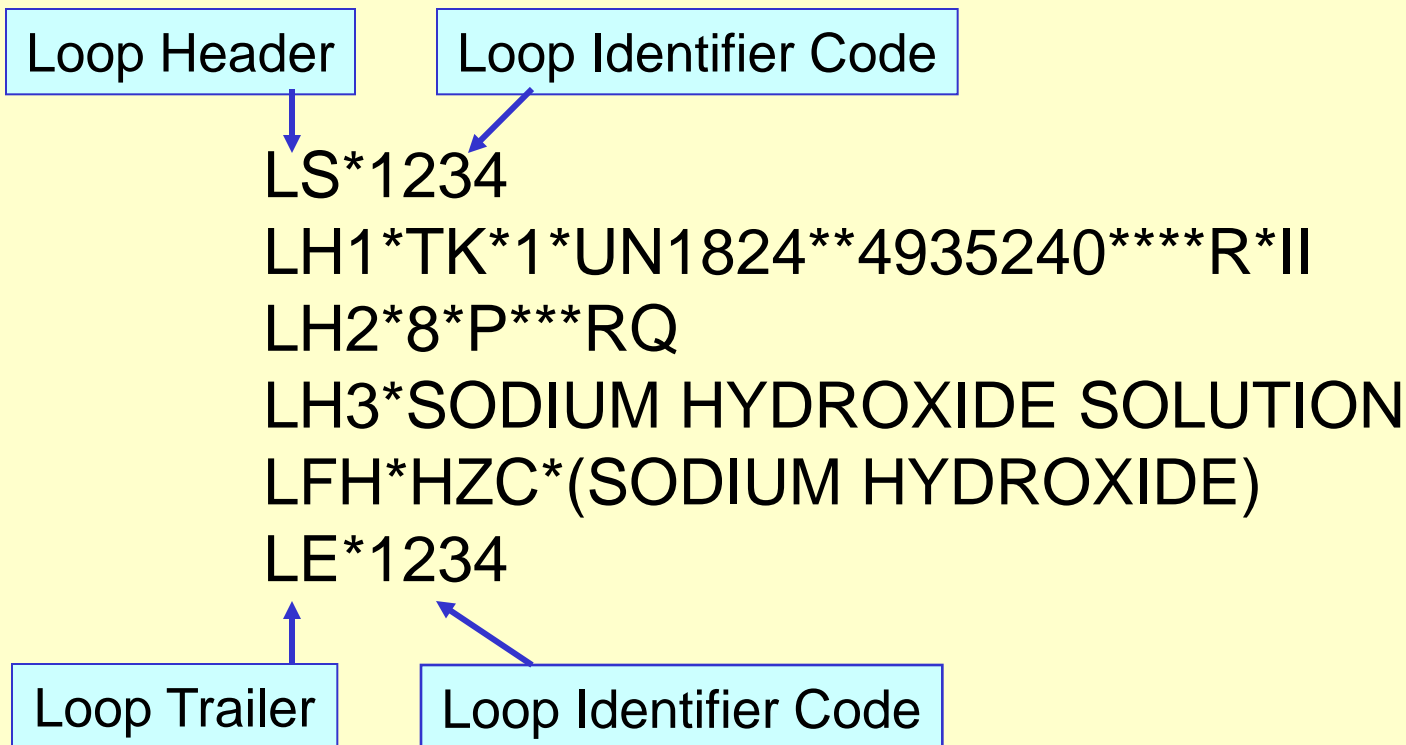


Within the Transaction Set are **Data Segments** (lines of information)

EDI Format Basics

Some data segments assume special relationships with other segments & are referred to as “**Loops**”.

- Loops can be either mandatory or optional. If an optional loop is used, then the first segment becomes mandatory.
- Loop headers (start) begin with “**LS**”.
- Loop trailers (end) begin with “**LE**”.
- Hazardous materials shipping descriptions are transmitted using **LH** loops.



Transaction Set 404

Rail Carrier Shipment Information

The initial tender of a shipment between the shipper (offeror) & a rail carrier. Used as a legal bill of lading or notification of equipment release.

Transaction Set 404 Message - Sample

GS*SR*OCC346*CSXT*20030105*1010*42083*X*004030
ST*404*420830001
BX*00*R*PP**CSXT*L*B
BNX*S**S
M3*R*20030105*1010
N9*BM*39225702**20030105*1010
N9*PO*2003-35
N7*HOKX*132048*180000*N*****RR
F9*ROSEPORT*MN
D9**PASADENA*TX
N1*SH*OCCIDENTAL CHEMICAL CORP.
N3*4600 HWY 421 NORTH
N4*ROSEPORT*MN*16694
N1*CN*SIMPSON PAPER CO.
N3*P.O. BOX 936
N4*PASADENA*TX*77501
R2*CSXT*S*STL
R2*UP*1

Transaction Set 404 Message – cont.

LS*0410

LX*1

L5*1*CHLORINE GAS, TANKCAR*4920523*T

LO*1*****1*CLD

LE*0410

LS*0600

LH1*TK*1*UN1017*4920523

LH2*2.3*P***RQ

LH2*8*S

LH3*CHLORINE*D

LFH*PIH*(CHLORINE)**B

LFH*MPI*MARINE POLLUTANT*(CHLORINE)

LHR*HE*7616

PER*HM*CHEMTREC*TE*8004249300

LE*0600

LH6*DAVID WEBB

SE*34*420830001

GE*1*42083



Questions ?

DOT Hazmat Training

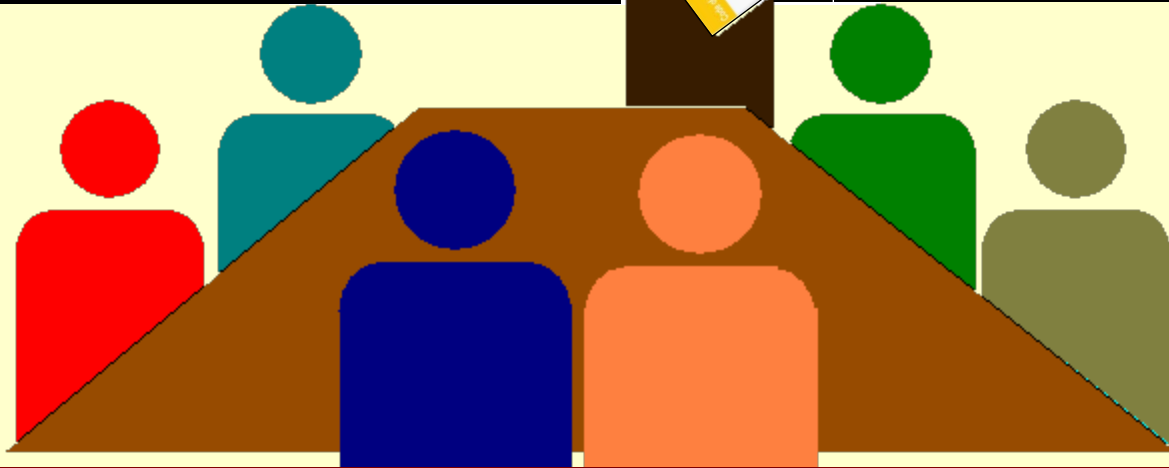
Part 172 Subpart H

**Training – a place
where people go to
learn their job !**

**DOT
HAZMAT**



**If you think that
training is expensive
- try ignorance !**



Good training is not to teach people facts, not to reform them, or to attempt to make experts of them - it is to supply them with the tools they need to think straight and make good decisions !

Hazmat Employer must:



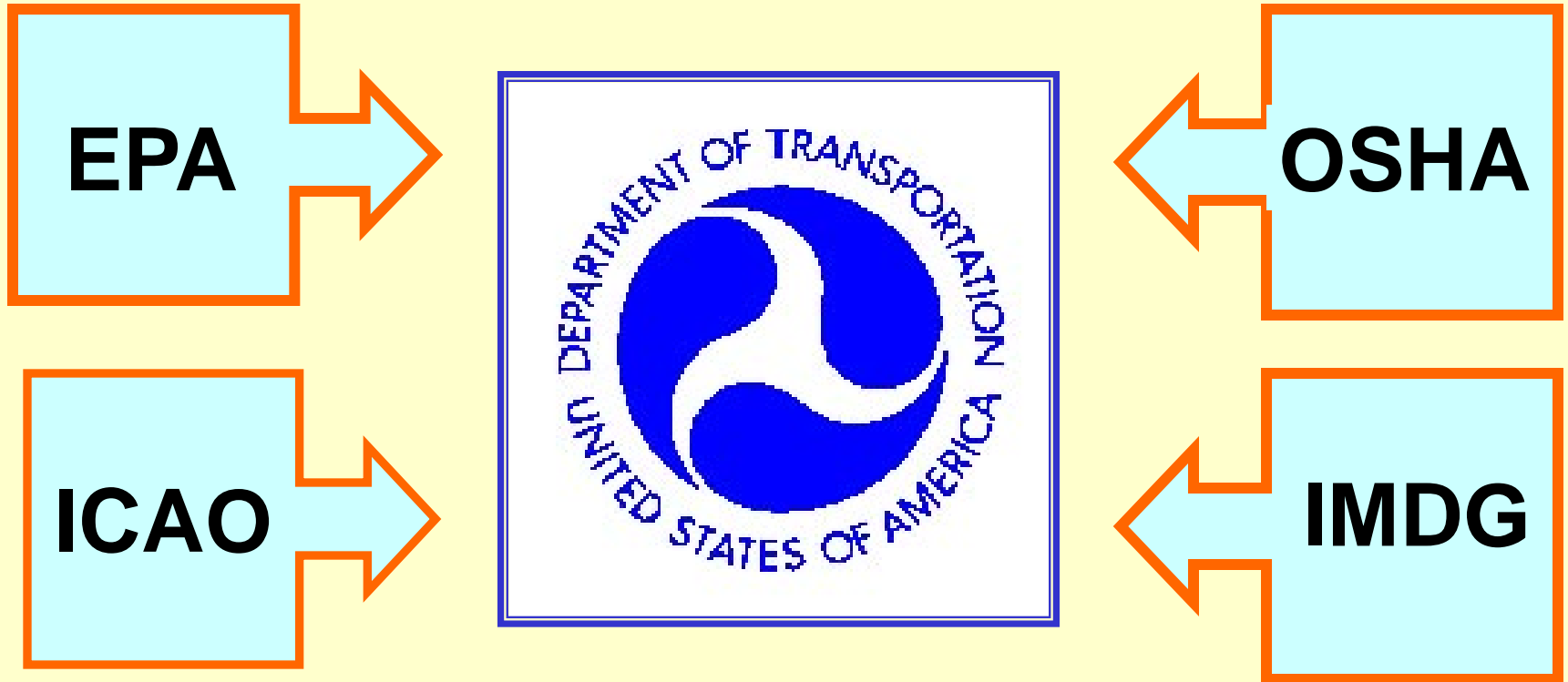
- ✓ Provide HM training
- ✓ Test HM employees
- ✓ Certify that HM employees have been trained & tested
- ✓ Develop & maintain DOT hazmat records

See §171.8 for
definition of a
Hazmat Employer

Acceptable Training Methods Accomplishing the Training & Testing

- ✓ **Written**
- ✓ **Verbal**
- ✓ **Performance**
- ✓ *Combination of these*

Duplicate Training Duplicate Training



Recurrent DOT Training

§172.704
(c)(2)

- Hazmat employees are required to receive DOT hazmat training at least once every:

3 Years

- If the training in the 4 required areas (*Gen. Awareness, Function-Specific, Safety, Security Awareness*) are completed on **separate dates**, then each area of training would have a separate anniversary date.
- If the training is provided in segments on separate dates, then the “**completion date of the training**” is determined by the employer based on the **last date** of the segmented training that satisfies the minimum DOT training requirements.

Recordkeeping

§172.704
(d)



- 1.** Hazmat employee's name
- 2.** Most recent training completion date
- 3.** A copy, description or location of the training materials
- 4.** Name & address of the trainer(s)
- 5.** Certification that the hazmat employee has been trained & tested

Certification of DOT Hazmat Training

§172.704
(d)(5)

- DOT requires that a hazmat employer must “**certify**” that the hazmat employee has been **trained & tested** per DOT requirements.
- A “**Certification**” is a formal assertion, in writing, that the employee has been trained & tested per DOT requirements.
- A **single** certification may be maintained on record that identifies the employees that were trained & tested.

Example

DOT Hazmat Training

Birdsong Enterprises, Inc.

Name of Employee	Training Completion Date			
	Gen. Awareness	Function-Specific	Safety Training	Security Awareness
Billy Bob Birdsong, Sr	7-1-12	6-22-11	2-10-12	3-25-11
Billy Bob Birdsong II	7-7-12	8-12-11	4-10-12	3-25-11
Billy Bob Birdsong III	7-7-12	8-12-11	4-10-12	3-25-11

I certify that the above named hazmat employees have been trained & tested per 49 CFR Part 172 Subpart H.

Belinda B. Birdsong
(Certification Signature)

Ona Ornsby, 600 Chipmunk Circle, Shrub, TX 72663

(Name & Address of Trainer(s))

Training Room, Main Office Bldg., Birdsong Enterprises, Inc.

(Location of Training Materials)

Person who

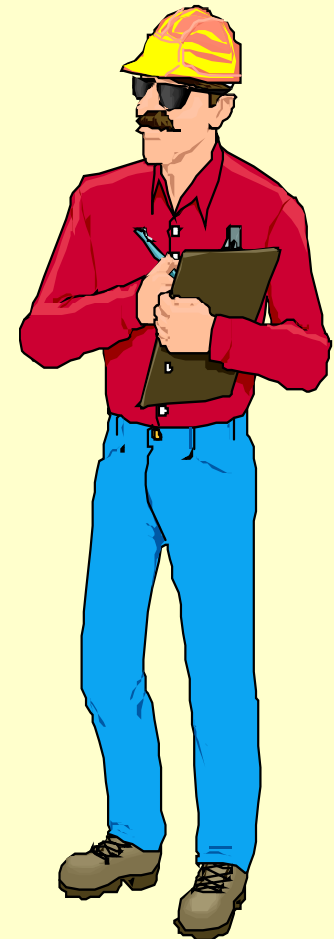
Company that
primary
to see that
employees are
DOT

(a)

offers

Person to instruct
agents &
responsibility for
equipment as to

- § 173.1 (b)





Questions ?

DOT 111A100W1

	STATION	ITEMS	QUALIFIED	DUE
TANK QUALIFICATION	CGRD	2002	2012	
THICKNESS TEST	CGRD	2002	2012	
SERVICE EQUIPMENT	CGRD	2002	2012	
PRD: Valve	75 psi	CGRD	2002	2012
LINING	CGRD PRODUCT PURITY			
88.B.2 INSPECTION	CGRD	2002	2012	
STUB SILL INSPECTION	CGRD	2002	2012	

