The logo of the New Jersey Department of Environmental Protection is a circular emblem. It features a stylized blue and white globe in the center, with a grey outer ring. The globe has a blue and white pattern that resembles a map of the state of New Jersey. The text is overlaid on this logo.

New Jersey Department of  
Environmental Protection  
Transportation Oversight Unit

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# DOT Requirements Applicable to Hazardous Waste Generator's

- Comply with training requirements
- Properly identify waste being shipped
- Select an authorized package
- Properly mark the package
  - EPA & DOT marking requirements
- Complete the shipping paper (HW Manifest)
- Comply with placarding requirements

# Training

- Each Hazmat Employer Must:
- Train and Test
- Certify
- Develop and retain records of current training (inclusive of preceding three years) for each hazmat employee (during the period of employment and 90 days thereafter)



# DOT Requirements Applicable to Hazardous Waste Generator's

- Training (49 CFR 172.704)
  - Hazmat employers must provide training to their hazmat employees & shall include:
    - General awareness training - enabling the employee to recognize & identify hazardous materials

# DOT Requirements Applicable to Hazardous Waste Generator's

- Training 172.704 - cont.
  - Function Specific – hazmat employee must receive specific training to the hazmat function(s) performed
  - Safety training – shall include emergency response information, methods of avoiding accidents such as proper handling procedures, & measures to protect themselves from exposure



# DOT Requirements Applicable to Hazardous Waste Generator's

- Training 172.704 - cont.
  - Security awareness & In-depth security training
    - Refer to Subpart I (172.800 & 172.804) for security plan specifics
  - Initial & recurrent training
    - Initial completed within 90 days of hire or change in function, may work under direct supervision of knowledgeable hazmat employee until training is completed
    - Recurrent must be done at least every 3 years
    - Relevant training received from a previous employer or other source is also acceptable

# DOT Requirements Applicable to Hazardous Waste Generator's

- Training 172.704 - cont.

## Training Records Must Include:

- Hazmat employee's name
- Completion date of most recent training
- Training Materials (Copy, description, or location)
- Name and address of hazmat trainer
- Certification that the hazmat employee has been trained and tested



# Identify Your Waste

- Generator knowledge
  - Testing of waste material
  - Go to the "101 Table" (columns 2 – 5)
- 49 CFR 172.101



Research and Special Programs Administration, DOT §172.101

§172.101 Hazardous Materials Table- Cont'd

Sym- bols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identifi- cation Numbers	PG	Label Codes	Special provisions (§172.102)	(8) Packaging §173.***)			(9) Quantity limitations		(10) Vessel storage	
							Excep- tions	Non- bulk	Bulk	Passen- ger air craft/rail	Cargo air-craft only	Loca- tion	Other
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	(9A)	(9B)	(10A)	(10B)
G	Corrosive liquids, n.o.s	8	UN1760	II	8.3	B3, B2, T11, TP2, TP27	None	202	243	1L	30L	C	25, 40
				I	8	A7, B10, T14, TP2, TP27	None	201	243	0.5L	2.5L	B	40
G	Corrosive liquids, oxidizing, n.o.s	8	UN3093	III	8	B2, B2, T11, TP2, TP27	154	202	242	1L	30L	B	40
				I	8.5.1	B3, T7, TP1, TP28	154	203	241	5L	60L	A	40
G	Corrosive liquids, toxic, n.o.s	8	UN2922	II	8.5.1	IB2	None	202	243	1L	30L	C	39
				I	8.6.1	A7, B10, T14, TP2, TP13, TP27	None	201	243	0.5L	2.5L	B	40
G	Corrosive liquids, water-reactive, n.o.s	8	UN3094	II	8.6.1	B3, B2, T7, TP2	None	202	243	1L	30L	B	40
				III	8.6.1	B3, T7, TP1, TP28	154	203	241	5L	60L	B	40
G	Corrosive solid, acidic, inorganic, n.o.s	8	UN3260	I	8.4.3	IB7, TP1	None	202	243	1L	5L	E	-----
				I	8	None	None	211	242	1kg	25 kg	B	-----



# Examples of Basic Descriptions

**Acetone, 3, UN1090, PGII**

**Phosphoric acid solution, 8, UN1805, PGIII**

On January 1, 2013, the sequence will be altered to match the international sequence:

1. UN ID number
2. Proper shipping name
3. Hazard class
4. Packing group

At *that* time, the basic description for these chemicals would be:

UN1090, Acetone, 3, PGII

UN1805, Phosphoric acid solution, 8, PGIII

# Package Selection

- Refer To The "101 Table"
- Determine Mode Of Transportation
- Select Authorized Packaging & Check For Exemptions (Col. 8)
- Review Special Provisions (Col. 7)

1     2     3     4  
 ↓            ↓            ↓            ↓

§172.101 Hazardous Materials Table

(1) Symbols	(2) Hazardous materials descriptions and proper shipping names	(3) Hazard class or Division	(4) Identification Numbers	(5) PG	(6) Label Codes	(7) Special provisions	(8) Packaging (§173.***)			(9) Quantity limitations		(10) Vessel stowage	
							Exceptions (8A)	Non-bulk (8B)	Bulk (8C)	Passenger aircraft/rail (9A)	Cargo aircraft only (9B)	Location (10A)	Other (10B)
	Sodium peroxide.....	5.1	UN1504	I	5.1.....	A20, N34.....	None..	211..	None..	Forbidden	15kg....	B	13,75, 106
	Sodium peroxoborate, anhydrous	5.1	UN3247	II	5.1.....	.....	152....	212..	240....	5 kg.....	25kg....	A	13,25, 106
	Sodium Persulfate.....	5.1	UN1505	III	5.1.....	A1.....	152....	213..	240....	25 kg.....	100kg..	A	.....

NOTE: Beginning on Jan. 1, 2013, the sequence will be altered to match the international sequence: UN number, proper shipping name, hazard class, packing group.



# Improper Packaging

Result of lithium  
batteries that were not  
packaged properly





# Shipping Paper – HW Manifest

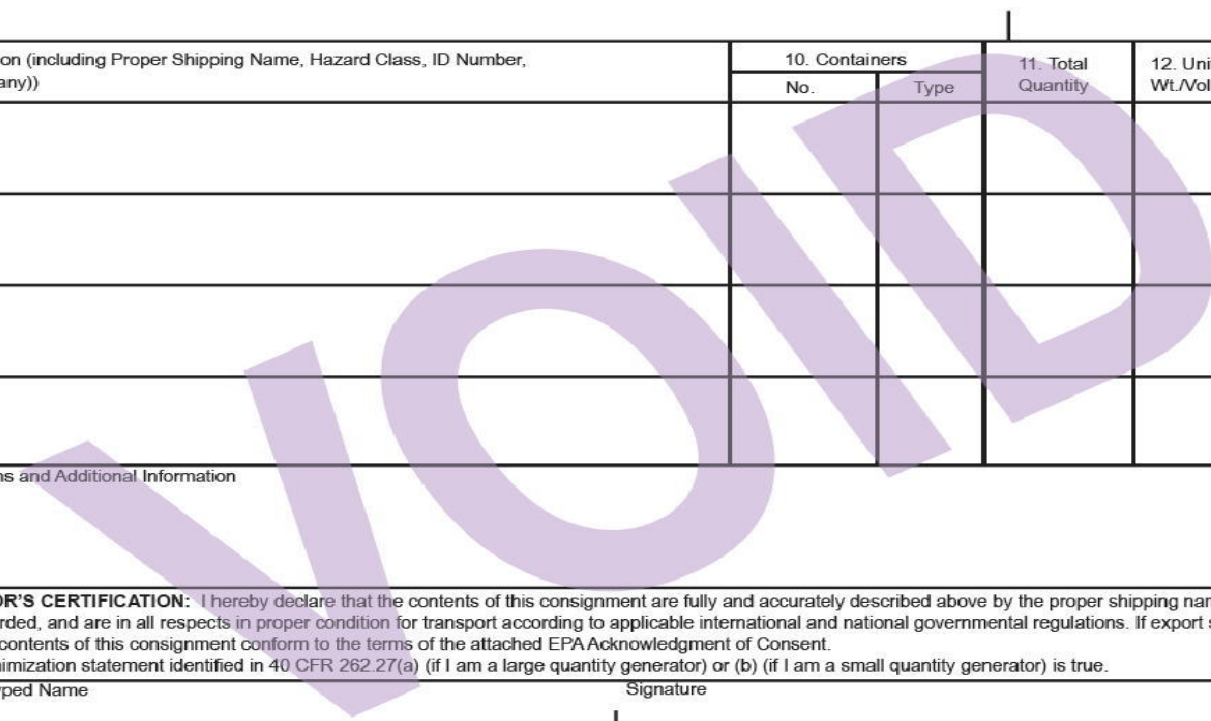
Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number			
		5. Generator's Name and Mailing Address				Generator's Site Address (if different than mailing address)		
Generator's Phone:								
6. Transporter 1 Company Name							U.S. EPA ID Number	
7. Transporter 2 Company Name							U.S. EPA ID Number	
8. Designated Facility Name and Site Address							U.S. EPA ID Number	
Facility's Phone:								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
1.								
2.								
3.								
4.								
14. Special Handling Instructions and Additional Information								
<p>15. <b>GENERATOR'S/OFFEROR'S CERTIFICATION:</b> 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. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.</p>								
Generator's/Offeror's Printed/Typed Name				Signature		Month	Day	Year
16. International Shipments		<input type="checkbox"/> Import to U.S.		<input type="checkbox"/> Export from U.S.		Port of entry/exit: _____		
Transporter signature (for exports only):				Date leaving U.S.: _____				
17. Transporter Acknowledgment of Receipt of Materials								

GENERATOR

INTERNATIONAL



# Uniform Hazardous Waste Manifest is the Shipping Paper For Hazardous Waste

- Select basic shipping description from the 172.101

Table by:

- Selecting proper shipping name (PSN)
- Hazard Class
- ID number
- Packing Group
- Total quantity being shipped
- If the PSN does not include the word “waste” & hazardous waste is being shipped the word waste must precede the proper shipping name

# Uniform Hazardous Waste Manifest is the Shipping Paper For Hazardous Waste

- Shipping Paper Cont.

- Check 172.203 (additional descriptions)
- Technical names for generic descriptions (n.o.s)
- Check App. A of 172.101 Table & determine if material is a “RQ”
- Check App. B of 172.101 Table & determine if material is a Marine Pollutant (may not be applicable)



# Uniform Hazardous Waste Manifest is the Shipping Paper For Hazardous Waste

- Shipping Paper Cont.

- Provide Emergency Response Information

- (E.R.G. # or MSDS form)

- Emergency Response Telephone number, see 172.604

- Monitored at all times the material is in transportation (until it is accepted at TSD)
    - Person must have knowledge of material being shipped & have comprehensive ER information of the material or immediate access to someone who has this knowledge.

# Uniform Hazardous Waste Manifest is the Shipping Paper For Hazardous Waste

- Shipping Paper Cont.

- Generator Certification 172.204

- By signing the manifest the generator is certifying the consignment is fully & accurately described by the proper shipping name, classified, packaged, marked, labeled, & in all respects in proper condition for transport...



# Properly Packaged & In Proper Condition for Transportation?





# Properly Packaged & In Proper Condition for Transportation?

- Bung was not tightened
- Does not meet the minimum packaging standard at 49 CFR 173.24



# Properly Packaged & In Proper Condition for Transportation?

- Must make sure package is closed in accordance with closure instructions
- In this case a plastic bung was used in place of a metal one





# DOT Requirements Applicable to Hazardous Waste Generator's

- General Non-Bulk Marking Requirements 172.301
  - For hazardous waste EPA marking required at 40 CFR 262.32 must be on package & include:
    - Generator's name & address, manifest document #, proper shipping description, technical names, special permit #
  - Other prescribed DOT markings shall be used, where required, such as package orientation arrows for liquids, inhalation hazard, marine pollutant for vessel transportation (where applicable), or Biohazard



# DOT Non Bulk Package Markings

- Types of Markings:
  - EPA Marking
  - DOT Hazard Warning Labels
  - Package Orientation Arrows



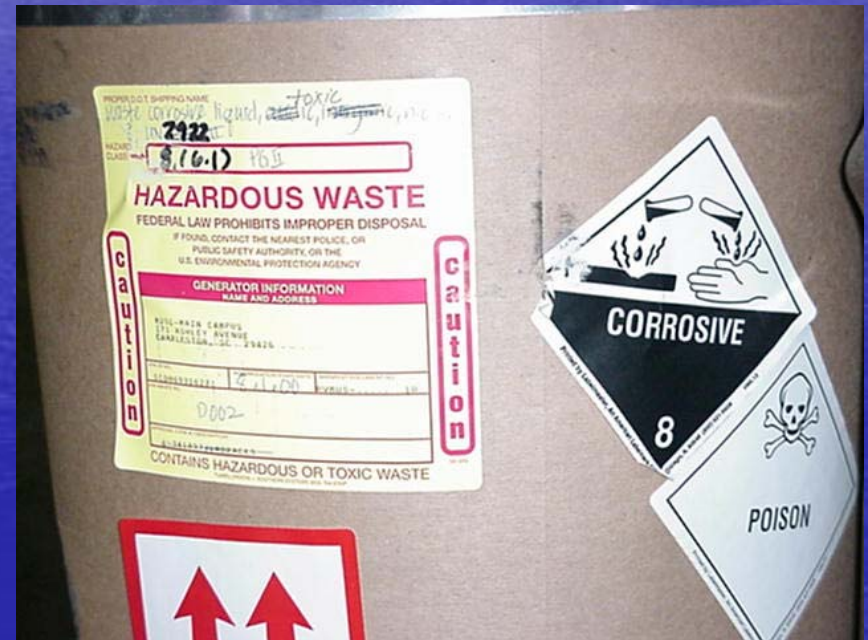
# DOT Requirements Applicable to Hazardous Waste Generator's

- Labeling Requirements - Subpart E
  - Label(s) selection, Column 6 of 172.101 Table
  - Label placement on package 172.406
    - Same surface of package and near PSN
    - Primary & subsidiary labels, when required, must be next to each other (within 6 inches of each other)
    - As of 10/1/05, all subsidiary labels must contain a hazard class or division number in the lower corner



# DOT Non Bulk Package Marking

- DOT Hazard Warning Labels:
  - Same surface of package and near PSN
  - Primary & subsidiary labels, when required, must be next to each other (within 6 inches of each other)





# Placarding



# DOT Requirements Applicable to Hazardous Waste Generator's

- Placarding Requirements - Subpart F
  - Placard selection, Column 3 of 172.101 Table
  - Generator's responsibility 172.506
    - Each person offering a motor carrier a hazardous material for transportation by highway shall provide to the motor carrier the required placards for the material being offered prior to or at the same time the material is offered for transportation, unless the carrier's motor vehicle is already placarded for the material as required by this subpart



# Placarding

- General rules:
  - Must appear on all four faces of the tractor/trailer
  - Required for:
    - Bulk packaging regardless of quantity
    - **Table 1** – Any quantity
    - **Table 2** – Equals or exceeds 1001 lbs. or 454 Kg in non-bulk packaging or *any quantity* in bulk packaging
    - Joint responsibility of shipper and carrier
- 49 CFR 172.500





# DEP Contacts

- 24 Hr. Emergency Hotline (spills, abandoned waste, & other environmental concerns)  
877-WARN-DEP (877-927-6337)
- Transportation Oversight Unit  
(ofc.) 609-292-6305 Bob Gomez, Hazardous & Solid Wastes
- DEP Transporter Registration  
(609) 292-7081 follow voice prompts
- NJDEP Solid & Hazardous Waste Web page  
**<http://www.nj.gov/dep/dshw/>**



# DOT's Webpage

<http://phmsa.dot.gov/hazmat>

The screenshot shows a Windows Internet Explorer browser window displaying the PHMSA Hazmat Safety Community website. The browser's address bar shows the URL <http://phmsa.dot.gov/hazmat>. The website header features the PHMSA logo (U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration) and a navigation menu with links for [Careers](#), [Contact Us](#), [FAQs](#), and [Site Map](#). Below the header is a search bar with a "Go" button and the text "Advanced Search". The main content area is titled "Hazmat Safety Community" and includes a descriptive paragraph: "The Office of Hazardous Materials Safety is the Federal safety authority for ensuring the safe transport of hazardous materials by air, rail, highway, and water." The page is organized into a grid of 12 links, each with a brief description:

- About Us**: Information about PHMSA's Office of Hazardous Materials Safety.
- Calendar**: Planned events specific to Hazardous Materials general and specific topics.
- Contact Us**: How to connect with us for more information, requests, and questions.
- Data & Statistics**: Accidents and incidents, registration, and other average, annual, and summary statistics.
- Electronic Services**: Services available online including FOIA, Registration, and Fine payments.
- Field Operations**: Inspections, Enforcement, and Outreach.
- Grants**: Financial and technical assistance for hazardous materials emergency planning and training.
- Hazardous Materials Information Center**: 1-800-HMR-4922 Mon to Fri 9 to 5 EST (202-366-4488 for Washington DC residents)
- Incident Reporting**: Notification and reporting requirements.
- International Standards**: Forums to harmonize United States and international standards and regulations.
- Interpretations**: PHMSA provides review and interpretation of regulations upon request. View by date, regulation, or search term.
- Library**: Available files, reports, documents, and publications. [Glossary](#), [FAQs](#), and more.
- NTSB Safety Recommendations**: PHMSA is required by law to respond to recommendations issued by NTSB.
- Registration**: Are you required to be registered? If so, how do you go about it?
- Regulations**: What are the rules and how do they apply to me?
- Risk Management**: Identifying and managing risks of transportation of hazmat in commerce.
- Safety Advisory Notices**: Federal Register notices concerning safety issues that pose an imminent hazard to the public.
- Security**: Enhancing hazardous materials transportation safety and security.
- Special Permits & Approvals**: Alternatives to HMR requirements.
- Training & Outreach**: Training information, who needs it, and how to obtain it.

The browser's taskbar at the bottom shows several open applications: Start, New Jersey Environment..., Novell GroupWise - Mailbox, HW Seminar 12-2010.ppt, and PHMSA - Hazmat Safe... The system clock indicates the time is 2:57 PM.