

 **USDOT and Uniform Hazardous Waste Manifest Training**

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Session Code Tu-H5  
March 25, 2005  
Mike Hagen, ESCI EnviroServices, Inc.

 ESCI ENVIROSERVICES, INC.

Training for employees which have responsibilities that include, packaging, marking, labeling and signing the Uniform Hazardous Waste Manifest



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**Learning Objectives**

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Employees will be able to:

- verify information on the Uniform Hazardous Waste Manifest,
- determine the proper preparation of hazardous materials (hazmat) for transportation,

Employees will understand the qualifications and responsibilities associated with signing a Uniform Hazardous Waste Manifest

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**DOT Training Requirements**

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Required Function Specific Training Topics

- ❖ Proper Shipping Names
- ❖ Packaging
- ❖ Shipping Papers/Manifest
- ❖ Marking and Labeling
- ❖ Placarding
- ❖ Loading, Moving and Unloading

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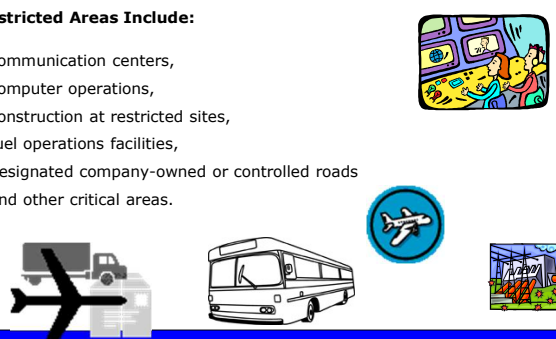
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**General Security Awareness**

**Restricted Areas Include:**

- ❖ communication centers,
- ❖ computer operations,
- ❖ construction at restricted sites,
- ❖ fuel operations facilities,
- ❖ designated company-owned or controlled roads
- ❖ and other critical areas.



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**General Security Awareness**

**Semi-restricted Areas**

**All public facilities including,** but not limited to:

- ❖ General Office buildings,
- ❖ Customer Service offices,
- ❖ Service centers,
- ❖ Aircraft Operations (public side), and
- ❖ Warehouses.



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**General Security Awareness**

Access

Only authorized persons are granted access in accordance with company security procedures.

Individuals accessing both restricted and semi-restricted areas are subject to inspection including that of vehicles, materials, deliveries, & containers entering or leaving company property.

POLICE LINE - DO NOT CROSS   POLICE LINE - DO NOT CROSS   POLICE LINE - DO NOT CROSS   POLICE LINE

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**General Security Awareness**

**Corporate/ ID Badges:**

- Indicate that individuals have a right to access facilities and also signify that a mandatory background investigation has been completed.

Must be swiped through automated card readers or shown to security / reception personnel to gain facility access.

Should be worn at all times while on company property and

- ❖ May not be loaned to other individuals, and
- ❖ Must be surrendered upon separation or termination of assignment.

★ Ensure the ID matches the individual and location

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**General Security Awareness**

**Security Practices**

Security practices must be observed by every company employee and include the following:

Any knowledge of threats or criminal activity directed at the company, or on company property, is to be immediately reported to company security for investigation



CORPORATE SECURITY - DO NOT CROSS   CORPORATE SECURITY - DO NOT CROSS   CORPORATE SECURITY - DO NOT CROSS   CORPORATE SECURITY - DO NOT CROSS

ES&I 9

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### General Security Awareness

Any suspicious activity associated with the shipment of hazardous waste should be reported to facility security immediately



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### General Security Awareness

Suspicious Activity may include:

- ❖ Drivers without proper company I.D.
- ❖ Employees that stay at the facility longer than necessary to complete their work, or leave the areas necessary to complete their work.
- ❖ Unauthorized persons with drivers
- ❖ Suspicious activities around facility perimeter such as people taking photos/videos or vehicles circling the facility.
- ❖ Unknown persons following trucks or employees

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### Resources

Materials required for job:

- 49CFR Parts 100-180
- 40CFR Parts 1-1900
- Cal-EPA Title 22/26 California Code of Regulations
- Cal-CHP Title 13 California Code of Regulations
- Uniform Hazardous Waste Manifest instructions

Other

- 1-800-HMR-4922 DOT Helpline
- ECFR- Electronic GPO
- <https://leginfo.legislature.ca.gov/> California Legislative info ALL state codes
- <https://govt.westlaw.com/calregs> All State regulations

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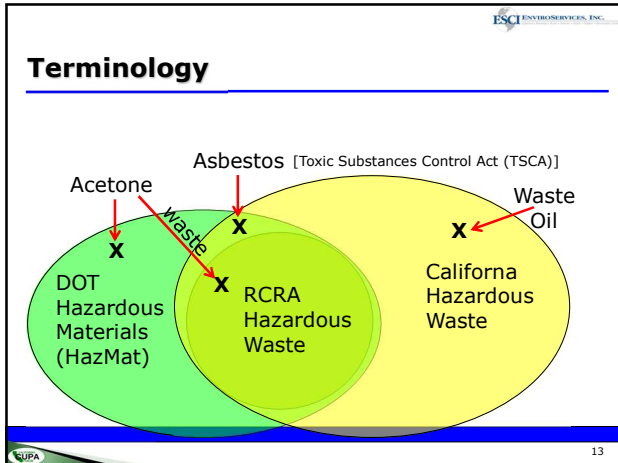
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**Function Specific**

Terms:

<b>EPA / Cal EPA</b>	<b>USDOT</b>
Generator	= Shipper
Transporter or Hauler	= Carrier
Uniform Waste Manifest	≠ Shipping Paper
Hazardous Substance (Waste)	= RCRA waste only

DTSC is Department of Toxic Substance Control or Cal EPA

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**Function Specific**

Terms:

<u>USDOT</u>
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**Empty**  
No hazardous materials – New or cleaned and purged of hazardous materials and vapors or filled with non-hazmat (does not meet 1-8 definition)

**Residue**  
Hazardous material remaining in a packaging after removal to the maximum extent possible and before it is refilled or cleaned (see empty)

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49CFR 171.8

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**Function Specific**

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USDOT Tips

**"NO VOCs"** does not mean not a USDOT hazardous materials.  
i.e. flash point 102 degrees F paint

**"Non-RCRA"** does not mean not a USDOT hazardous material.  
i.e. asbestos

**"Bio-degradable"** does not mean not a USDOT hazardous material.  
i.e. Simple Green in an aerosol can

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ESCI 19

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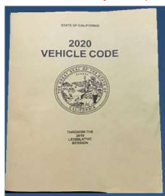
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**Why are there so many definitions?**  
The definitions dictate which code.

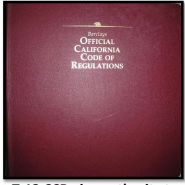
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**California Vehicle Code (CVC)**  
**Health & Safety Code (H&SC)**



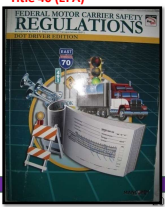
CVC gives authority  
To enforce T-13 CCR

**California Code Of Regulations (CCR):**  
**Title 13 Highway Patrol**  
**Title 22 Department Toxic Substance Control**



T-13 CCR give authority to  
Enforce 49 CFR

**Code of Federal Regulations:**  
**Title 49 (DOT)**  
**Title 40 (EPA)**



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Hazardous Materials and Waste Compliance Flow Chart

**PENALTIES**

**Vehicle Code:**  
Up to \$1,000 and/or 6 months jail

**Health and Safety Code:**  
Up to \$25,000 and/or 6 months jail for transportation and other issues

For offering/transportation/disposal with out registration or without permits or to unpermitted location 2, 3, 4 or 5 years prison.

**Federal:**  
Sky is the limit \$500k, lots of years

(b)(4) receipts need date, amt., UHWM#, signatures & if DOT: HM desc.

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**Function Specific**

Function Specific training covers specific elements of DOT regulations

- Classification
- Proper Shipping Names
- Packaging
- Shipping Papers
- Marking and Labeling
- Placarding
- Loading Moving and Unloading
- Incidents and Emergencies

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**Function Specific -packaging**

The generator (shipper) of hazmat (the person "offering") must **ensure** that the material is properly packaged.

The point of packaging is to make sure that the stuff stays *inside* the packaging under "conditions **normally incident** to transportation."



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49CFR 173.22(a)(2)

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**Function Specific -packaging**

Packaging vs. Package:

Packaging:  
A receptacle and any components needed to meet the DOT specifications.



Package:  
Packaging filled with hazardous materials.  
Ready for shipment.



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49CFR 171.8

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**Function Specific -packaging**

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Non-bulk vs Bulk (single container)

Non-bulk:

- ❖ Liquids ≤ 119 gallons
- ❖ Solids ≤ 880 pounds net mass AND ≤ 119 Gal volume
- ❖ Gases ≤ 1001 Lbs. water capacity



49CFR 171.8

ES&I 25

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**Function Specific -packaging**

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Non-bulk vs Bulk (single container)

Bulk:

Packagings that exceed these limits



49CFR 171.8

ES&I 26

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**Function Specific -packaging**

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Three main types of packagings

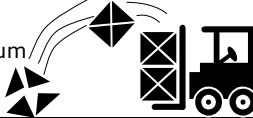
**"Manufacturing Specification"**

- ❖ Cylinder for compressed gases
- ❖ Cargo Tank
- ❖ Tank Car
- ❖ Portable Tank



**"Performance-Oriented"**

- ❖ Drum
- ❖ Barrel, box, pail, salvage drum



**"Strong Tight Container"**

49CFR 171.8

ES&I 27

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**Function Specific -packaging**

All packaging used to transport hazmat must be approved & authorized by the DOT and must meet the specific packaging requirements for the hazmat you are shipping.

All packages must be in proper condition.

49CFR 173.2(d)

ES&I 28

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**Function Specific -packaging**

- All hazmat, other than hazmat shipped in cylinders or wet batteries, will have a Packing Group (PG) shown in the shipping description.

1. Shipper's Name		10. Containers		11. Total	12. Unit	13. Waste Codes	
1a. HAZ	8. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	No.	Type	Quantity	Wt/Vol		
GENERATORS	X UN1950 Waste Aerosols, 2.2, (I)	2	CY	160	P		
	RG UN1469, Waste Lead Nitrate, 5.1 (6.1), III	1	DF	120	P	D001	D008
	X UN1090, Waste Acetone, 3, II	4	DM	1525	P	U002	D001
	RG UN2315, Waste Polychlorinated Biphenyls, Liquid (PGIII) (Oil > 10,000)	1	DM	405	P	731	

14. Special Handling Instructions and Additional Information

49CFR 172.202(a)(4)

ES&I 29

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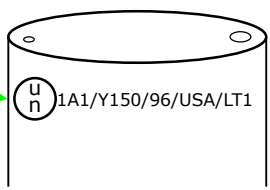
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**Function Specific -packaging**

- All performance packaging are marked with UN package certification markings.

Example of UN certification marking → 

49CFR 178.503(a)

ES&I 30

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**Function Specific -packaging**

This letter corresponds with the Packing Group (PG) on the shipping paper or Uniform Hazardous Waste Manifest.

PG I, II, III = X  
 PG II, III = Y  
 PG III = Z

49CFR 178.502(b)(3)

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**Function Specific -packaging**

The Packing Group and UN Certification marking must agree.

- Note the Packing Group on the UHWM for the entry
- Look on the package for the UN Certification
- Ensure the package is correct for the material offered

X	UN1090,Waste Acetone, 3, II	4	DM	1525	P	U002	D001
Y	UN2315,Waste Polychlorinated Biphenyls, Liquid, 9 (PGIII, GII >10,000)	1	DM	405	P	731	

Performance standard:  
 "X"=meets PG I, II and III  
 "Y"=meets PG II and III  
 "Z"=meets PG III only

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**Function Specific -packaging**

All packagings used to transport hazmat must be used (filled/closed) in accordance with the manufacturers instructions.

49CFR 173.22(4)

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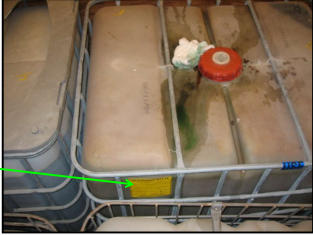
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**Function Specific -packaging**

Must have no residue on surface of package  
Must be leak free  
Properly closed

Hazardous Waste Marking!

49CFR 173.24(b) & 24(f)

ES&I34

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**Function Specific -packaging**

Packages authorized under Special Permit

Now called  
Special Permit and  
Marked  
DOT-SP XXXXX



CLUE!?

49CFR 173.24(b) & 24(f)

ES&I35

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ES&I ENVIROSERVICES, INC.

**Function Specific -packaging**

September 18, 2014

ES&I Environmental Services, Inc.  
3401 Transportation  
14401 Westpark Drive, Suite 300  
Houston, Texas 77040  
www.esandI.com

**Permit and Revision**  
Revision History  
DOT-SP 12750  
(120th REVISION)

EXPIRATION DATE: August 31, 2015

(FOR REFERENCE, SEE 49 CFR § 173.133)

1. GRANTEE: Questary, Inc.  
Bucks County, PA
2. SPECIAL PERMIT (REGULATIONS):

a. This special permit authorizes the manufacture, multiple use and use of 200 liter plastic drums, 200 liter plastic jugs, 200 liter plastic intermediate bulk containers (IBCs) for use as the inner packaging for the DOT-SP 12750 as described in accordance with § 173.133(a)(2)(iii). This special permit excludes or relieves from the Hazardous Materials Regulations (HMR) other than as specifically noted herein. The most recent version supersedes all previous versions.

b. The safety analysis performed in development of this special permit will consider the hazards and risks associated with transportation of contents.
3. REGULATORY SYSTEM APPROVAL: 49 CFR Parts 174, 177 and 173-133
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 173.133(d)(2)(iii) 49 CFR § 173.133(d)(2)(iv) 49 CFR § 173.133(d)(2)(v) 49 CFR § 173.133(d)(2)(vi) 49 CFR § 173.133(d)(2)(vii) 49 CFR § 173.133(d)(2)(viii) 49 CFR § 173.133(d)(2)(ix) 49 CFR § 173.133(d)(2)(x) 49 CFR § 173.133(d)(2)(xi) 49 CFR § 173.133(d)(2)(xii) 49 CFR § 173.133(d)(2)(xiii) 49 CFR § 173.133(d)(2)(xiv) 49 CFR § 173.133(d)(2)(xv) 49 CFR § 173.133(d)(2)(xvi) 49 CFR § 173.133(d)(2)(xvii) 49 CFR § 173.133(d)(2)(xviii) 49 CFR § 173.133(d)(2)(xix) 49 CFR § 173.133(d)(2)(xx) 49 CFR § 173.133(d)(2)(xxi) 49 CFR § 173.133(d)(2)(xxii) 49 CFR § 173.133(d)(2)(xxiii) 49 CFR § 173.133(d)(2)(xxiv) 49 CFR § 173.133(d)(2)(xxv) 49 CFR § 173.133(d)(2)(xxvi) 49 CFR § 173.133(d)(2)(xxvii) 49 CFR § 173.133(d)(2)(xxviii) 49 CFR § 173.133(d)(2)(xxix) 49 CFR § 173.133(d)(2)(xxx) 49 CFR § 173.133(d)(2)(xxxi) 49 CFR § 173.133(d)(2)(xxxii) 49 CFR § 173.133(d)(2)(xxxiii) 49 CFR § 173.133(d)(2)(xxxiv) 49 CFR § 173.133(d)(2)(xxxv) 49 CFR § 173.133(d)(2)(xxxvi) 49 CFR § 173.133(d)(2)(xxxvii) 49 CFR § 173.133(d)(2)(xxxviii) 49 CFR § 173.133(d)(2)(xxxix) 49 CFR § 173.133(d)(2)(xl) 49 CFR § 173.133(d)(2)(xli) 49 CFR § 173.133(d)(2)(xlii) 49 CFR § 173.133(d)(2)(xliii) 49 CFR § 173.133(d)(2)(xliv) 49 CFR § 173.133(d)(2)(xlv) 49 CFR § 173.133(d)(2)(xlvi) 49 CFR § 173.133(d)(2)(xlvii) 49 CFR § 173.133(d)(2)(xlviii) 49 CFR § 173.133(d)(2)(xlvix) 49 CFR § 173.133(d)(2)(xlvx) 49 CFR § 173.133(d)(2)(xlvxi) 49 CFR § 173.133(d)(2)(xlvii) 49 CFR § 173.133(d)(2)(xlvii) 49 CFR § 173.133(d)(2)(xlvii)
5. BASIS: This special permit is based on the application of Special Use Approval Report 14, 2014 submitted in accordance with § 173.133.

49CFR 173.24(b) & 24(f)ES&I36


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**Function Specific -packaging**

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2. PURPOSE AND LIMITATIONS:

a. This special permit authorizes the manufacture, marking, sale and use of certain UN13H4 woven plastic, coated and with liner Flexible Intermediate Bulk Containers (IBCs) for use as the outer packaging for lab pack applications in accordance with § 173.12(b)(2)(i). This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.

49CFR 173.24(b) & 24(f)

ES&I 37

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**Function Specific -packaging**

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7. SAFETY CONTROL MEASURES:

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Waste hazardous materials classed as Class or Division 3, 4.1, 4.2, 4.3, 5.1, 6.1, 8, or 9, which are authorized to be shipped in lab packs in accordance with § 173.12(b).	3, 4.1, 4.2, 4.3, 5.1, 6.1, 8, or 9.	As appropriate	I, II, or III as appropriate

49CFR 173.24(b) & 24(f)

ES&I 38

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**Function Specific -packaging**

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SAFETY CONTROL MEASURES:

a. PACKAGING - Prescribed packaging is a UN13H4 woven plastic, coated and with liner flexible IBC with a combination of multiple layers of encapsulated corrugation between inner and outer layers of woven coated polypropylene, with an inner six mil polyethylene liner.

c. OPERATIONAL CONTROL - As specified in § 173.12(b)(2)(v), the **gross weight of the complete package may not exceed 205 kg. =451 pounds**

49CFR 173.24(b) & 24(f)

ES&I 39

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**Function Specific -packaging**

c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle used to transport packages covered by this special permit.

Each person who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

49CFR 173.240(f) & 241(f)

EPA 40

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ESCI ENVROSERVICES, INC.

**Function Specific –shipping paper**

- All generators must use shipping papers/manifest supplied by an Environmental Protection Agency (EPA) approved source.
- The Uniform Hazardous Waste Manifest is a DOT regulated shipping paper.
  - If the Manifest is used to ship RCRA hazardous wastes and has the proper DOT description with additional required info
  - However:
    - Some NON-RCRA wastes are DOT regulated hazmat
    - Some are a California state waste only (not DOT HW or HMat'l)
  - Manifest entries may be pre-printed
  - All employees will have DOT training prior to preparing and signing shipping papers.

40CFR 262.21 T22 66262.21Manifest printing 49CFR 172.205 Manifest 172.400+ Training 41

EPA

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**Function Specific –shipping paper**

Critical Points

The Manifest is standardized in content and appearance and is issued by the EPA

The Manifest is regulated by EPA, Cal EPA (DTSC) and DOT.

It is a Hazardous Materials Shipping Paper if the material offered is a DOT regulated material.

EPA 42

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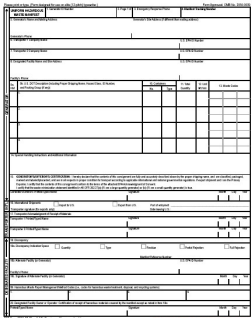
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**Function Specific –shipping paper**

Uniform Hazardous Waste Manifest (UHWM)

Non-RCRA Hazardous Waste Liquid (Water)



49CFR 172.205

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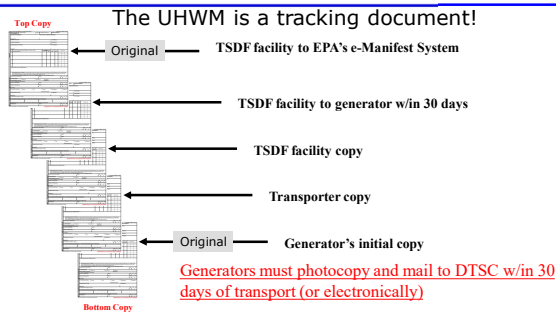
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**Function Specific –shipping paper**  
Manifest is now 5-copy (was 6)

The UHWM is a tracking document!



49CFR 172.205

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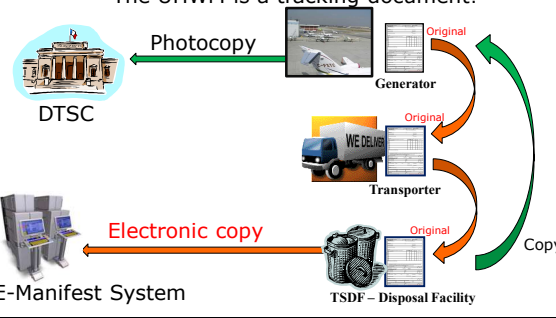
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**Function Specific –shipping paper**

The UHWM is a tracking document!



49CFR 172.205

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**Function Specific –shipping paper**

**Item 1:** Generator's EPA ID number, or State ID number if generator has no EPA ID number.

**Item 2:** Total number of pages.

**Item 3:** Emergency response number to be used during transportation incident.

**Item 4:** This tracking number is pre-printed on the manifest. The number is comprised of 12 alpha-numeric characters – 9 numeric characters followed by a unique 3 letter suffix.

<small>Please print or type. (Form designed for use on elastic (12-pitch) typewriter)</small>			
1. Generator ID Number UNIFORM HAZARDOUS WASTE MANIFEST Generator's Name and Mailing Address	2. Page 1 of 2	3. Emergency Response Phone 800 555-1234 Generator's Site Address (if different than mailing address)	4. Manifest Tracking Number 123456789ABC

49CFR 172.201(c), 172.604(e)

! Ensure accuracy 46

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**Function Specific –shipping paper**

- A 24-hour emergency response telephone number is required on all **DOT shipping papers**.
- The telephone number must be monitored the **entire** time the material is in transit.
- The number must be a **direct connection** to a

3. Emergency Response Phone 800-824-9300	4. Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)
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Special Handling Instructions and Additional Information  
MSDCM profile #EWS-2741-21587.M profile #EWS-28886. Wear proper PPE when handling. Bill to: ERC-LLC Emergency Response CHEMTREC 1-800-424-9300 / CCN1016381

49CFR 172.604(a)(1)&(2)

47

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**Function Specific –shipping paper**

**Item 5:** Generator's name and mailing address. This is where the manifest will be sent when shipment is complete.

DEC 21 2014

<small>Please print or type. (Form designed for use on elastic (12-pitch) typewriter)</small>			
1. Generator ID Number UNIFORM HAZARDOUS WASTE MANIFEST Generator's Name and Mailing Address	2. Page 1 of 1	3. Emergency Response Phone (877) 818-0087	4. Manifest Tracking Number 001036001 VES
Generator's Name and Mailing Address 1034 N. TUSTIN ANAHEIM, CA 92807	Generator's Site Address (if different than mailing address) 666 S D'YER RD SANTA ANA, CA 92705	Generator's Phone 714 630-3175	U.S. EPA ID Number NJ D 0 0 6 3 1 3 6 9
Transporter 1 Company Name ES TECHNICAL SOLUTIONS	Transporter 2 Company Name ES TECHNICAL SOLUTIONS	U.S. EPA ID Number	U.S. EPA ID Number

emergency or waste rejection. If same as mailing address, this can be left blank.

22CCR 65262.20(a)

48

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### Function Specific –shipping paper

6. Transporter 1 Company Name <b>IT'S A WASTE, Inc.</b>		U.S. EPA ID Number <b>MAD03930000</b>
7. Transporter 2 Company Name		U.S. EPA ID Number

8. Designated Facility Name and Site Address

**Item 6:** First transport company accepting the waste.  
**Item 7:** Second transport company accepting the waste

Use HW Manifest Continuation Form (8700-22A) for additional transporters or waste description(s)

22DCR 66262-20(a)  
49

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### Function Specific –shipping paper

8. Designated Facility Name and Site Address <b>We Take It All, LLP 5150 Deep Hole RD Los Angeles, CA 900013</b>		U.S. EPA ID Number <b>CAD05510000</b>
Facility's Phone <b>(310) 537-7100</b>		

**Item 8: Designated Facility Name, Address and Phone Number**

Once the waste is received at the designated facility, the transportation phase is complete.

8. Designated Facility Name and Site Address  
*DEPT OF ENVIRONMENTAL SERVICES, 115 W. 4TH ST., BEATTY, NV 89002*

Facility's Phone: *702-486-2000*

22DCR 66262-20(a)  
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### Function Specific –shipping paper

10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1. 1	362	P	181 NONE
2. 1	458	P	181 D006 D007
3. 1	159	P	181 NONE

9a. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

1. NON RECA HAZARDOUS WASTE, SOLID, GLASS/PLASTIC CONTAINERS (MEDIA), 23-14919 FLAMMABLE LIQUID, UN2870/128300-9071

2. LIQUEFIED, NONFLAMMABLE GASES, N.O.S. (GASEOUS ACID, MIXTURE ACID), 8, II, 33-14780 ACID GASES, UN2670/128301-9065

3. NON RECA HAZARDOUS WASTE SOLID, (FIBERGLASS), 33-30704  
USE# 070128300-1193

14. Special Handling Instructions and Additional Information

49CFR 172.201(a)(1)  
51

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

GENERATOR	HM and Packing Group (if any)	10. Containers		11. Total Quantity	
		No.	Type	Quantity	Wt/A
	1. NON-RCRA HAZARDOUS WASTE, SOLID (OILY RAGS / OILY DEBRIS)	016	DM	2400	P
	2. UN1950, AEROSOLS, FLAMMABLE, (EACH NOT EXCEEDING 1 L CAPACITY), 2.1				
	NON-RCRA HAZARDOUS WASTE, LIQUIDS, (COOKING OIL)				
	1. WASTE FLAMMABLE LIQUID, N.O.S. (MONOETHYLAMINE, DEIONIZED WATER) 3, UN1993, PG II	1	DF	35	P 343 2001
	NON-RCRA HAZARDOUS WASTE, LIQUID (WASTE OIL)	1	DM	300	P 221
	NON-RCRA HAZARDOUS WASTE, SOLID (OILY RAGS / OILY DEBRIS) "Waste-To-Energy" Recycle (SDF) (EPA 751.2008)	007	DM	1050	P 223 352
	WASTE AEROSOLS, 2.1, UN1950	001	DM	065	P 2001 214

49CFR 172.201(a)(1) 52

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

GENERATOR	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
			No.	Type	Quantity
	X	1. NA2212, Asbestos 9, PGIII	7	dm	420
		2. Non-RCRA Hazardous waste solid (Oily Debris)	6	dm	100
	X	3. Non-RCRA Hazardous waste solid (Paint chips) RQ, NA3078 Hazardous waste solid, N.O.S. (5008), 9, II	1	dm	100
		4. Non-RCRA Hazardous waste solid (Filters)	1	dm	70

14. Special Handling Instructions and Additional Information

49CFR 172.201(a)(1) 53

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

If a reportable quantity of any hazardous substance is present in any one container, the letters "RQ" may be entered in Column 9a.

**Example:**

HM	9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
RQ	UN1863 Waste Fuel, Aviation, Turbine Engine, 3, PGIII
RQ	UN1863 Waste Fuel, Aviation, Turbine Engine, 3, PGIII,
RQ	UN1863 Waste Fuel, Aviation, Turbine Engine, 3, PGIII, RQ

49CFR 172.201(a)(1) 54

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### Function Specific –shipping paper

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**Hazardous substance** for the purposes of this subchapter, means a material, including its mixtures and solutions, that—

- (1) Is **listed in the appendix A** to § 172.101 of this subchapter;
- (2) Is in a quantity, **in one package**, which **equals or exceeds the reportable quantity** (RQ) listed in the appendix A to § 172.101 of this subchapter; and
- (3) When in a **mixture or solution**—(i) For radionuclides, conforms to paragraph 7 of the appendix A to § 172.101.(ii) For other than radionuclides, is in a **concentration by weight** which equals or exceeds the concentration corresponding to the RQ of the material, as shown in the following table.

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### Section 172.101, Appendix A

Appendix A has two tables:

- Table 1 lists the names of those elements and compounds that are hazardous substances other than Radionuclides and Reportable Quantities; and
- Table 2 contains the list of names of those Radionuclides that are hazardous substances and Reportable Quantities.

§ 172.101      49 CFR Ch. I (10–1–00 Edition)

TABLE 1 TO APPENDIX A—HAZARDOUS SUBSTANCES OTHER THAN RADIONUCLIDES

Hazardous substance	Reportable quantity (RQ) pounds (kilograms)
Acenaphthene	100 (45.4)
Acenaphthylene	5000 (2270)
Acetaldehyde	1000 (454)
Acetaldehyde, chloro-	1000 (454)
Acetaldehyde, trichloro-	5000 (2270)
Acetamide	100 (45.4)
Acetamide, N-(aminothiocarbonyl)-	1000 (454)
Acetamide, N-ethylthiocarbonyl-	100 (45.4)
Acetamide, N-fluoro-2-yl-	1 (0.454)
Acetamide, 2-fluoro-	100 (45.4)
Acetic acid	5000 (2270)
Acetic acid (2,4-dichlorophenoxy)-	100 (45.4)
Acetic acid, ethyl ester	5000 (2270)
Acetic acid, fluoro-, sodium salt	10 (4.54)
Acetic acid, lead (2+) salt	10 (4.54)

172.101, App. A

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### Function Specific –shipping paper

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The term does not include:

petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a hazardous substance in appendix A to § 172.101 of this subchapter, and

the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

Material	RQ Value
Acenaphthene	5000 (2270)
Acenaphthylene	100 (45.4)
Acetaldehyde	5000 (2270)
Acetaldehyde, chloro-	1000 (454)
Acetaldehyde, trichloro-	5000 (2270)
Acetamide	100 (45.4)
Acetamide, N-(aminothioxomethyl)-	1000 (454)
Acetamide, N-(4-ethoxyphenyl)-	100 (45.4)
Acetamide, N-9H-fluoren-2-yl-	10 (0.454)
Acetamide, 2-fluoro-	100 (45.4)
Acetic acid	5000 (2270)
Acetic acid, (2,4-dichlorophenoxy)-, salts & esters	100 (45.4)
Acetic acid, ethyl ester	5000 (2270)
Acetic acid, fluoro-, sodium salt	10 (4.54)
Acetic acid, lead(2 + ) salt	10 (4.54)
Acetic acid, thallium(1 + ) salt	100 (45.4)
Acetic acid, (2,4,5-trichlorophenoxy)-	1000 (454)
Acetic anhydride	5000 (2270)

Per Package - Pure

ES&I ENVIROSERVICES, INC. 58

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

RQ Value

RQ pounds (kilograms)	Concentration by weight	
	Percent	PPM
5000 (2270)	10	100,000
1000 (454)	2	20,000
100 (45.4)	0.2	2,000
10 (4.54)	0.02	200
1 (0.454)	0.002	20

Per Package - Not Pure

ES&I ENVIROSERVICES, INC. 59

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

10. Container No.	10. Container Type	11. Total Quantity	12. Unit	13. Waste Code
1				
X UN1220, Waste Isopropyl acetate, 3, II UN2315, Waste Polychlorinated Biphenyls, Liquid, 9, PGIII, (Oil >10,000) RQ RQ RQ				

Item 9b: U.S. DOT Description including ID Number, Proper Shipping Name, Hazard Class and Packing Group (if any)  
 NEW: ID#, PSN, HC, PG UN1220, Waste Isopropyl acetate, 3, II  
 DOT regulations require the word "waste" to precede the shipping description of a RCRA ONLY hazardous waste if the word "waste" is not already in the shipping description.

49CFR 172.202 | Ensure accuracy 60

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USDOT 49CFR 172.101 The Table

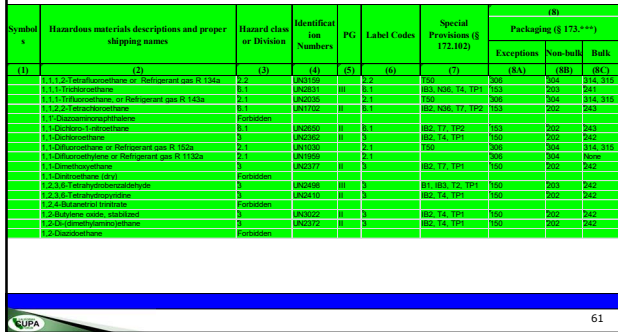


Table with 10 columns: Symbol, Hazardous materials descriptions and proper shipping names, Hazard class or Division, Identification Numbers, PG, Label Codes, Special Provisions (§ 172.102), and Packaging (§ 173.\*\*\*) with sub-columns for Exceptions, Non-bulk, and Bulk. The table is mostly redacted with a green box.

Symbol	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special Provisions (§ 172.102)	Packaging (§ 173.***)			
							Exceptions	Non-bulk	Bulk	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8A)	(8B)	(8C)	
1.1.2	Tetrahydrofuran or Refrigerant gas R-134a	2.2	UN1159	II	2.2	900	900	900	904	914, 915
1.1.2	Tetrahydrofuran	2.2	UN2051	II	2.2	900, 904, TP1, TP3	900	900	900	914
1.1.2	Tetrahydrofuran, or Refrigerant gas R-134a	2.1	UN2050	II	2.1	900	900	900	904	914, 915
1.1.2	Tetrahydrofuran	2.1	UN1702	II	2.1	902, 906, TP1, TP2	150	150	202	243
1.1	Dichloro-1-methane	2.2	UN2046	II	2.2	902, TP1, TP2	150	150	202	243
1.1	Dichloro-1-methane	2.2	UN2046	II	2.2	902, 904, TP1	150	150	202	243
1.1	Dichloro-1-methane, or Refrigerant gas R-150a	2.1	UN1000	II	2.1	900	900	900	904	914, 915
1.1	Dichloroethylene or Refrigerant gas R-113ca	2.1	UN1950	II	2.1	900	900	900	906	None
1.1	Dibromochloroethane	2	UN2377	II	2	902, TP1, TP1	150	150	202	243
1.1	Dibromochloroethane (oxy)	Exemption								
1.2	Dichlorodifluoromethane	2	UN2046	II	2	902, TP1, TP1	150	150	202	243
1.2	Dichlorodifluoromethane	1	UN2410	II	1	902, 14, TP1	150	150	202	243
1.2	Dichlorodifluoromethane	Exemption								
1.2	Dichlorodifluoromethane	2	UN2046	II	2	902, 14, TP1	150	150	202	243
1.2	Dichlorodifluoromethane	2	UN2372	II	2	902, 14, TP1	150	150	202	243
1.2	Dibromochloroethane	Exemption								

The Table Column 1 Symbols

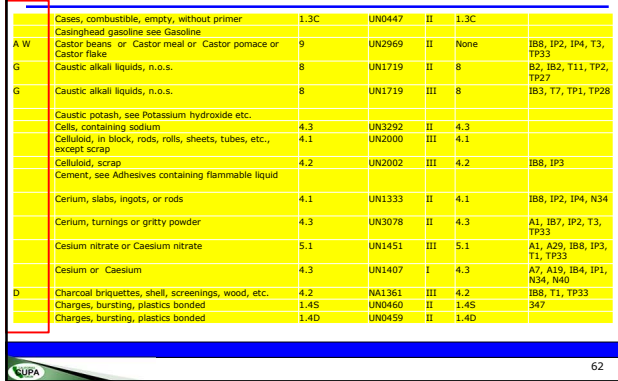


Table showing hazardous waste symbols and their corresponding codes: A W, G, G, D.

	Cases, combustible, empty, without primer	1.3C	UN0447	II	1.3C				
A	Casinghead gasoline see Gasoline								
W	Castor beans or Castor meal or Castor pomace or Castor flake	9	UN2969	II	None		IB8, IP2, IP4, T3, TP33		
G	Caustic alkali liquids, n.o.s.	8	UN1719	II	8		B2, IB2, T11, TP2, TP27		
G	Caustic alkali liquids, n.o.s.	8	UN1719	III	8		IB3, T7, TP1, TP28		
	Caustic potash, see Potassium hydroxide etc.								
	Cells, containing sodium	4.3	UN3292	II	4.3				
	Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrap	4.1	UN2000	III	4.1				
	Celluloid, scrap	4.2	UN2002	III	4.2		IB8, IP3		
	Cement, see Adhesives containing flammable liquid								
	Cerium, slabs, ingots, or rods	4.1	UN1333	II	4.1		IB8, IP2, IP4, N34		
	Cerium, turnings or gritty powder	4.3	UN3078	II	4.3		A1, IB7, IP2, T3, TP33		
	Cesium nitrate or Caesium nitrate	5.1	UN1451	III	5.1		A1, A29, IB8, IP3, T1, TP33		
	Cesium or Caesium	4.3	UN1407	I	4.3		A7, A19, IB4, IP1, N34, N40		
D	Charcoal briquettes, shell, screenings, wood, etc.	4.2	NA1361	III	4.2		IB8, T1, TP33		
	Charges, bursting, plastics bonded	1.4S	UN0460	II	1.4S		347		
	Charges, bursting, plastics bonded	1.4D	UN0459	II	1.4D				

The Table Column 2, 3, 4, 5 PSN, Haz Class, ID#, PG

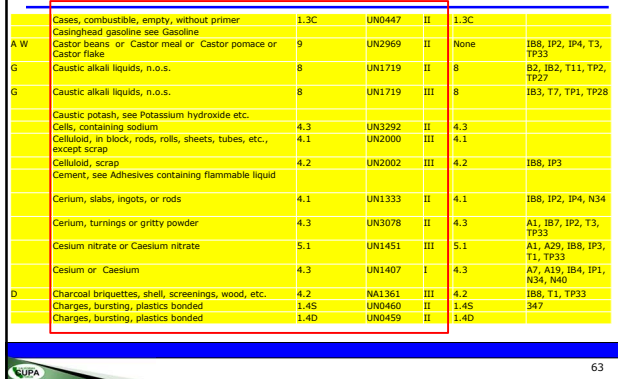


Table showing hazardous waste symbols and their corresponding codes: A W, G, G, D.

	Cases, combustible, empty, without primer	1.3C	UN0447	II	1.3C				
A	Casinghead gasoline see Gasoline								
W	Castor beans or Castor meal or Castor pomace or Castor flake	9	UN2969	II	None		IB8, IP2, IP4, T3, TP33		
G	Caustic alkali liquids, n.o.s.	8	UN1719	II	8		B2, IB2, T11, TP2, TP27		
G	Caustic alkali liquids, n.o.s.	8	UN1719	III	8		IB3, T7, TP1, TP28		
	Caustic potash, see Potassium hydroxide etc.								
	Cells, containing sodium	4.3	UN3292	II	4.3				
	Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrap	4.1	UN2000	III	4.1				
	Celluloid, scrap	4.2	UN2002	III	4.2		IB8, IP3		
	Cement, see Adhesives containing flammable liquid								
	Cerium, slabs, ingots, or rods	4.1	UN1333	II	4.1		IB8, IP2, IP4, N34		
	Cerium, turnings or gritty powder	4.3	UN3078	II	4.3		A1, IB7, IP2, T3, TP33		
	Cesium nitrate or Caesium nitrate	5.1	UN1451	III	5.1		A1, A29, IB8, IP3, T1, TP33		
	Cesium or Caesium	4.3	UN1407	I	4.3		A7, A19, IB4, IP1, N34, N40		
D	Charcoal briquettes, shell, screenings, wood, etc.	4.2	NA1361	III	4.2		IB8, T1, TP33		
	Charges, bursting, plastics bonded	1.4S	UN0460	II	1.4S		347		
	Charges, bursting, plastics bonded	1.4D	UN0459	II	1.4D				

**The Table Column 6 Label**

	Cases, combustible, empty, without primer	1.3C	UN0447	II	1.3C
	Casinghead gasoline see Gasoline				
A W	Castor beans or Castor meal or Castor pomace or Castor flake	9	UN2969	II	None
G	Caustic alkali liquids, n.o.s.	8	UN1719	II	8
G	Caustic alkali liquids, n.o.s.	8	UN1719	III	8
	Caustic potash, see Potassium hydroxide etc.				
	Cells, containing sodium	4.3	UN3292	II	4.3
	Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrap	4.1	UN2000	III	4.1
	Celluloid, scrap	4.2	UN2002	III	4.2
	Cement, see Adhesives containing flammable liquid				
	Cerium, slabs, ingots, or rods	4.1	UN1333	II	4.1
	Cerium, turnings or gritty powder	4.3	UN3078	II	4.3
	Cesium nitrate or Caesium nitrate	5.1	UN1451	III	5.1
	Cesium or Caesium	4.3	UN1407	I	4.3
D	Charcoal briquettes, shell, screenings, wood, etc.	4.2	NA1361	III	4.2
	Charges, bursting, plastics bonded	1.4S	UN0460	II	1.4S
	Charges, bursting, plastics bonded	1.4D	UN0459	II	1.4D

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**The Table Column 7 Special Provisions**

	Cases, combustible, empty, without primer	1.3C	UN0447	II	1.3C
	Casinghead gasoline see Gasoline				
A W	Castor beans or Castor meal or Castor pomace or Castor flake	9	UN2969	II	None
G	Caustic alkali liquids, n.o.s.	8	UN1719	II	8
G	Caustic alkali liquids, n.o.s.	8	UN1719	III	8
	Caustic potash, see Potassium hydroxide etc.				
	Cells, containing sodium	4.3	UN3292	II	4.3
	Celluloid, in block, rods, rolls, sheets, tubes, etc., except scrap	4.1	UN2000	III	4.1
	Celluloid, scrap	4.2	UN2002	III	4.2
	Cement, see Adhesives containing flammable liquid				
	Cerium, slabs, ingots, or rods	4.1	UN1333	II	4.1
	Cerium, turnings or gritty powder	4.3	UN3078	II	4.3
	Cesium nitrate or Caesium nitrate	5.1	UN1451	III	5.1
	Cesium or Caesium	4.3	UN1407	I	4.3
D	Charcoal briquettes, shell, screenings, wood, etc.	4.2	NA1361	III	4.2
	Charges, bursting, plastics bonded	1.4S	UN0460	II	1.4S
	Charges, bursting, plastics bonded	1.4D	UN0459	II	1.4D

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**Function Specific – HMR Table**

**Column 7 Special Provisions**

Polychlorinated biphenyls, liquid	9	UN2315	II	9	9, 81, 140, IB3, T4, TP1
<small>Special provision 907 applies.</small>					
9 Packaging for certain PCBs for disposal and storage is prescribed by EPA in 40 CFR 761.60 and 761.65.					
81 Polychlorinated biphenyl items, as defined in 40 CFR 761.3, for which specification packagings are impractical, may be packaged in non-specification packagings meeting the general packaging requirements of subparts A and B of part 173 of this subchapter. Alternatively, the item itself may be used as a packaging if it meets the general packaging requirements of subparts A and B of part 173 of this subchapter.					
140 This material is regulated only when it meets the defining criteria for a hazardous substance or a marine pollutant. In addition, the column 5 reference is modified to read "III" on those occasions when this material is offered for transportation or transported by highway or rail.					

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ES&I ENVIROSERVICES, INC.

### Function Specific – HMR Table

STEP 2  
SYMBOL

STEP 1  
CLASSIFY

STEP 4  
LABELING

STEP 3  
DETERMINE  
PACKAGING

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers	PG	Label Codes	Special provisions	(8) Packaging (§173.***)		
							Exceptions (8A)	Non-bulk (8B)	Bulk (8C)
(1)	(2)	(3)	(4)	(5)	(6)	(7)			
	Sodium peroxide.....	5.1	UN1504	I	5.1.....	A20, N34.....	None.....	211..	None..
	Sodium peroxoborate, anhydrous	5.1	UN3247	II	5.1.....	.....	152..	212..	240..
	Sodium Persulfate.....	5.1	UN1505	III	5.1.....	A1.....	152..	213..	240..

ES&I ENVIROSERVICES, INC.

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ES&I ENVIROSERVICES, INC.

### The Table Column 2 Proper Shipping Name Selection

G	Caustic alkali liquids, n.o.s.	8	UN1719	II	8	B2, B2, T11, TP2, TP27
G	Caustic alkali liquids, n.o.s.	8	UN1719	III	8	B3, T7, TP1, TP28

Several Rules:

1. PSN, Haz Class, PKG Group and Special Provisions (col. 7) must all agree
2. Specific – Family - Working – Generic
3. Hazmat mixed with non-hazmat = hazmat name
4. Hazmat + hazmat = new name

ES&I ENVIROSERVICES, INC.

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ES&I ENVIROSERVICES, INC.

### Selecting Proper Shipping Name - Precedence

**Mixtures and Solutions**

**ACETONE**  
(Hazardous material)

+

**DISTILLED WATER**  
(Non-hazardous material)

=

**ACETONE MIXTURE**  
(Hazardous material)

or

**ACETONE SOLUTION**  
(Hazardous material)

Acetone, a hazardous material + water, a non-hazardous material = Acetone mixture or Acetone solution.

If the addition of the non-hazardous product does not change the hazard class or division or the general properties of "Acetone," the proper shipping name becomes "Acetone mixture" or "Acetone solution."

ES&I ENVIROSERVICES, INC.

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### Selecting Proper Shipping Name - Precedence

Mixtures and Solutions

Alcohol  
Plus  
Acetone  
Working name  
OR  
Generic hazard class name

1. UN3264, Waste Corrosive liquid, acidic, inorganic, n.o.s. (Nitric Acid, Hydrochloric Acid), 8, PGII

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### Function Specific –shipping paper

DOT regulations require the word "waste" to precede the shipping description of a **RCRA ONLY** hazardous waste if the word "waste" is not already in the shipping description.

Asbestos is under TSCA (Toxic Substances Control Act 1976)

HM	and Packing Group (if any)	No.	Type	Quantity	WEI/VS
X	NA2212, RQ, WASTE ASBESTOS, 9, PG III	001	CM	005	Y
GEN III	Waste Asbestos, 9, NA2212, PGIII	1	DM	200	151
GEN III	Asbestos, 9, NA2212, PGIII	006	DM	900	151

49CFR 172.102

! Ensure accuracy 71

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### Function Specific –shipping paper

Special shipping description notes  
**USDOT Special Permits (DOT-SP) 49CFR 172.203(a)**

(a) *Special permits.* Except as provided in §173.23 of this subchapter, each shipping paper issued in connection with a shipment made under a special permit must bear the notation "DOT-SP" followed by the special permit number assigned and located so that the notation is clearly associated with the description to which the special permit applies.

X UN 3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Acetic acid)  
Class 8, PG II  
Emergency Response Code #: 153  
32,000 GAL of SRM4805  
TANK # DOT SP 8627

49CFR 172.202

! Ensure accuracy 72

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

Special shipping description notes  
**(c) Hazardous substances.** (1) if the proper shipping name for a material that is a hazardous substance does not identify the hazardous substance by name,

X	3. UN3077, WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (LEAD), 9, III, RQ(D008), 33-13417 SOLDER CROSS, A3313417EK
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For a hazardous waste, the waste code (e.g., D001), if appropriate, may be used to identify the hazardous substance.

X	1. UN3267, RQ, Waste Corrosive Liquid, basic, Organic, n.o.s., (Triphenyl Phosphate), 8, PGIII (9-octadecan-1-amine)
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! Ensure accuracy 73

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

Special shipping description notes:  
**Hazardous substances** requires name of substance or EPA Code (i.e. D001) in parentheses after basic description

<del>Hazardous Waste Liquid N.O.S. (Chrome), 9, UN3082, PGIII</del>	
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<del>1. Hazardous Waste Liquid N.O.S. (Chrome), 9, UN3082, PGIII, NA</del>	
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X	2. RQ, HAZARDOUS WASTE, SOLID, N.O.S., (CHROMIUM, LEAD), 9, NA3077, PGIII (D007, D008) SNDBLST / PNTCHPS / BLRST - PROFILE# 32011110
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! Ensure accuracy 74

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

Special shipping description notes:  
**NOS (most)** - requires technical description in parentheses between shipping name and identification number or at end of description. Indicated by "G" in Column 1 of table.

G	Environmentally hazardous substance, liquid, n.o.s.	9	UN3082	III	9	8, 146, 173, 335, 183, 14, TP1, 155, TP29	203	241	No limit
G	Environmentally hazardous substances, solid, n.o.s.	9	UN3077	III	9	8, 146, 335, A112, B54, B120, B88, IP3, N20, N91, 155, T1, TP33	213	240	No Limit

X	UN3266, WASTE Corrosive liquid, basic, inorganic, n.o.s., 8, PG1 (Oily water with Sodium Hypochlorite)
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! Ensure accuracy 75

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ES&I ENVIROSERVICES, INC.

**Function Specific –shipping paper**

Special shipping description notes:

**NOS** (most) or generic – requires technical description in parentheses between shipping name and identification number or at end of description. Indicated by "G" in Column 1 of table.

For example-  
 "UN 1760, Corrosive liquid, n.o.s., (Octanoyl chloride), 8, II",  
 or "UN 1760, Corrosive liquid, n.o.s., 8, II (contains Octanoyl chloride)".

49CFR 172.203(k)

ES&I **! Ensure accuracy** 76

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ES&I ENVIROSERVICES, INC.

**Function Specific –shipping paper**

Special shipping description notes:

**For organic peroxides** which may qualify for more than one generic listing depending on concentration, the **technical name must include the actual concentration** being shipped or the concentration range for the appropriate generic listing.

For example,  
 "UN 3102, Organic peroxide type B, solid, 5.2, (dibenzoyl peroxide, 52-100%)"  
 or "UN 3108, Organic peroxide type E, solid, 5.2, (dibenzoyl peroxide, paste, <52%)".

49CFR 172.203(k)

ES&I **! Ensure accuracy** 77

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ES&I ENVIROSERVICES, INC.

**Function Specific –shipping paper**

Special shipping description notes:

Descriptions for **toxic materials** that meet the criteria of **Division 6.1, PG I or II** or **Division 2.3** and are identified by the letter "G" in column (1) of the [§ 172.101](#) Table, **must have the technical name of the toxic constituent entered in parentheses in association with the basic description.** A material classed as Division 6.2 and assigned identification number UN 2814 or UN 2900 that is suspected to contain an unknown Category A infectious substance must have the words "suspect

49CFR 172.203(k)

ES&I **! Ensure accuracy** 78

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ES&I ENVIROSERVICES, INC.

**Function Specific –shipping paper**

Special shipping description notes:

If a **hazardous material is a mixture or solution of two or more hazardous materials**, the technical names of **at least two components most predominately contributing** to the hazards of the mixture or solution must be entered

For example,  
 “UN 2924, Flammable liquid, corrosive, n.o.s., 3 (8), II (contains Methanol, Potassium hydroxide)”.

49CFR 172.203(k)      ! Ensure accuracy 79

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ES&I ENVIROSERVICES, INC.

**Function Specific –shipping paper**

Special shipping description notes:

EXCEPTIONS-

If the n.o.s. description for the material (which is a mixture of hazardous materials of different classes meeting the definition of more than one hazard class) contains the name of the chemical element or group responsible for the material meeting the definition of one of these classes. In such cases, **only the technical name of the component that is not appropriately identified in the n.o.s. description shall be entered in parentheses.**

49CFR 172.203(k)      ! Ensure accuracy 80

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ES&I ENVIROSERVICES, INC.

**Function Specific –shipping paper**

Special shipping description notes:

EXCEPTIONS-

To a material that is a hazardous waste and described using the proper shipping name “**Hazardous waste, liquid or solid, n.o.s., classed as a miscellaneous Class 9,**

**If the EPA hazardous waste number is included on the shipping paper in association with the basic description**, or provided the material is described in accordance with the provisions of § 172.203(c) hazardous substances.

49CFR 172.203(k)      ! Ensure accuracy 81

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

**Recap** of special notations

**Special permits-**  
located so that the notation is **clearly associated** with the description to which the special permit applies.

**Hazardous substances-**  
**must be entered in parentheses in association with the basic description.** If the material contains two or more hazardous substances, at **least two hazardous substances, including the two with the lowest reportable quantities (RQs), must be identified.** **For a hazardous waste, the waste code (e.g., D001), if appropriate, may be used to identify the hazardous substance.**

**The letters "RQ" -**  
must be entered on the shipping paper in Column "HM" or either before or after the basic description

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49CFR 172.202

ES&I **! Ensure accuracy** 82

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

**Recap** of special notations

**Technical names** for "n.o.s." and other generic descriptions.

-Must be entered in parentheses in association with the basic description. For example  
"UN 1760, Corrosive liquid, n.o.s., (Octanoyl chloride), 8, II", or  
"UN 1760, Corrosive liquid, n.o.s., 8, II (contains Octanoyl chloride)".

**Organic peroxides** which may qualify for more than one generic listing depending on **concentration**, the technical name must include the actual concentration being shipped or the concentration range for the appropriate generic listing. For example, "UN 3102, Organic peroxide type B, solid, 5.2, (dibenzoyl peroxide, 52-100%)" or "UN 3108, Organic peroxide type E, solid, 5.2, (dibenzoyl peroxide, paste, <52%)".

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49CFR 172.202

ES&I **! Ensure accuracy** 83

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

**Recap** of special notations

**Technical names** for "n.o.s." and other generic descriptions. **CONT-**

If a hazardous material is a **mixture or solution of two or more hazardous materials**, the technical names of **at least two components most predominately contributing** to the hazards of the mixture or solution must be entered on the shipping paper as required by paragraph (k) of this section.

For example,  
"UN 2924, Flammable liquid, corrosive, n.o.s., 3 (8), II (contains Methanol, Potassium hydroxide)".

The provisions of this paragraph do not apply—  
A hazardous waste and described using the proper shipping name "**Hazardous waste, liquid or solid, n.o.s.**", classed as a miscellaneous **Class 9**, **provided the EPA hazardous waste number is included on the shipping paper in association with the basic description**, or provided the material is described in accordance with the provisions of §172.203(c) of this part.

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49CFR 172.203

ES&I **! Ensure accuracy** 84

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

**Recap** of special notations

.....And **Lab Packs** authorized under 173.12

§ 173.12 **Exceptions** for shipment of waste materials.

(d) **Technical names for n.o.s. descriptions.** The requirements for the inclusion of **technical names** for n.o.s. descriptions on shipping papers and **package markings**, §§ **172.203 and 172.301** of this subchapter, respectively,

**do not apply to packages prepared in accordance with paragraph (b)** of this section,

**except** that **packages** containing materials **meeting the definition of a hazardous substance** must be described as required in § 172.203 of this subchapter and marked as required in § 172.324 of this subchapter.  
-----name hazardous substances

49CFR 172.203 ! Ensure accuracy 85

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

4.	<b>NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (MERCURY), 9, PG III</b>	1	DM
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14 Special Handling Instructions and Additional Information

	Mercury compounds, solid, n.o.s.	6.1
A	Mercury contained in manufactured articles	8

49CFR 172.202 ! Ensure accuracy 86

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

<b>1. UN3505, WASTE MERCURY CONTAINED IN MANUFACTURED ARTICLES. 8. (6.1)</b>					
No.	Type	Quantity	Packing Group	Hazard Class	UN Number
001	DF	00005	P	D009	181

	Mercury compounds, solid, n.o.s.	6.1
A	Mercury contained in manufactured articles	8

49CFR 172.202 Column 1? or Hazardous Substance? ! Ensure accuracy 87

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

10. Containers	10. Containers		11. Total Quantity	12. Unit Wt/Wt	13. Waste Codes	
	No.	Type				
X	2	DM	160	P	D022	
RQ	1	DF	120	P	D001 D008	
X	4	DM	1525	P	U002 D001	
RQ	1	DM	405	P	731	

Item 10: Number and type of containers (standardized two-digit abbreviation)  
 Item 11: Total Quantity (do not list container capacity)  
 Item 12: Units of measurement (standardized single-digit abbreviation)  
 Item 13: Up to six federal waste codes (state codes are also required)

22CFR 66262.20(a)  
 EPA Ensure accuracy 88

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

**Item 10:**  
**Container Types**

10. Containers	10. Containers		11. Total Quantity	12. Unit Wt/Wt	13. Waste Codes	
	No.	Type				
X	02	CY	450	P	F008 D008 135	

CY = cylinders  
 DF = fiberboard or plastic drums, barrels, kegs  
 DM = metal drums, barrels, kegs  
 DT = dump truck  
 DW = wooden drums, barrels, kegs  
 HG = hopper or gondola car  
 TC = tank car (rail)  
 TP = tank portable  
 TT = tank truck (cargo tank)

22CFR 66262.20(a)  
 EPA 89

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ES&I ENVIROSERVICES, INC.


### Function Specific –shipping paper

**Item 11:**  
**Total Quantity**


We must identify total quantity as accurately as possible without using decimals or fractions.

“We are not allowed to simply use container capacities as the quantities shipped when it is known that a container is not filled to capacity.” -EPA Manifest Instructions


Is this Drum?



Half empty?  
0 G




Half full?  
55 G



2 times larger than needed?

OR



27 G

Except salvage package where approximation is allowed  
 49CFR 172.202(a)(5)(ii)

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ESCI ENVIROSERVICES, INC.

### Inspection

X UN1978, WASTE PROPANE, 2.1		2	CY	2	P	
X RC0082, HAZARDOUS WASTE, LIQUID, N.O.S., (EPA F008, D008), 9 PGIII	No. 02	CY	450	G	1	G
1 N0082, HAZARDOUS WASTE, LIQUID, N.O.S., (EPA F008, D008), 9 PGIII		2	CY	450	G	



ESCI ENVIROSERVICES, INC. 10/07/2011

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ESCI ENVIROSERVICES, INC.

### Function Specific

These state codes known as the "state codes" are regulated as hazardous waste under the Federal Subtitle C. There is no hierarchy.

<b>D001</b>	<b>D035</b>	<b>F002</b>
<b>214</b>	<b>OUTS209H</b>	
<b>D001</b>	<b>D035</b>	<b>F002</b>
<b>214</b>	<b>OUTS209H</b>	
<b>D001</b>	<b>352</b>	
	<b>OUTS409H</b>	
<b>D001</b>	<b>D018</b>	<b>F001</b>
<b>352</b>	<b>outs409h</b>	

	12 Use	13 Waste Code
	Wt/Vol	
0 P		D022 B
5 S		D009 R
15 P		U002 D001 B
6 P		D001 D003 T

22DCR 66262-20(a)

92

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

NON RCRA HAZARDOUS WASTE LIQUID (Diesel Water Mixture)	0 0 1	T T	800	G	221
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Wear All Appropriate Protective Clothing Nieto PO #031915

GENERATOR'S CERTIFICATION: I certify that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled, and are in all respects in proper condition for transport according to applicable federal, state and local government regulations. I accept shipment under the Primary Liability. I certify that the contents of this consignment conform to the terms of the attached Bill of Lading and are in compliance with applicable regulations.

Signature: *Katherine Salazar* Date: 03 19 15

Signature: *[Signature]* Date: 03 19 15

Reconciled quantity: 904 with Steve Nieto U.S. EPA ID Number: C-1133015

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**Function Specific –shipping paper**

**Item 11:**  
**Total Quantity**

22CCR 66262.20(a)

94

**Function Specific –shipping paper**

ESCI ENVIROSERVICES, INC.

Item 11: Total Quantity

22CCR 66262.20(a)

94

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**Function Specific –shipping paper**

**Item 12:**  
**Units- weight or volume**

G = gallons                      K = kilograms  
L = liters                         M = metric tons  
N = cubic meters              P = pounds  
T = tons                          Y = cubic yards

Gallons and liters are for liquids only.

22CCR 66262.20(a)

96

**Function Specific –shipping paper**

ESCI ENVIROSERVICES, INC.

Item 12: Units- weight or volume

G = gallons                      K = kilograms  
L = liters                         M = metric tons  
N = cubic meters              P = pounds  
T = tons                          Y = cubic yards

Gallons and liters are for liquids only.

22CCR 66262.20(a)

96

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**Function Specific –shipping paper**

**Item 12:**  
**Units- weight or volume**

G = gallons                      K = kilograms  
L = liters                         M = metric tons  
N = cubic meters              P = pounds  
T = tons                          Y = cubic yards

Gallons and liters are for liquids only.

22CCR 66262.20(a)

96

**Function Specific –shipping paper**

ESCI ENVIROSERVICES, INC.

Item 12: Units- weight or volume

G = gallons                      K = kilograms  
L = liters                         M = metric tons  
N = cubic meters              P = pounds  
T = tons                          Y = cubic yards

Gallons and liters are for liquids only.

22CCR 66262.20(a)

96

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

These state codes most often appear in connection with what are known as the “state only” hazardous wastes, that is, wastes which are regulated as hazardous in an authorized state program, but not under the Federal EPA, Subtitle C, regulations.  
There is no hierarchy of waste codes.

Generator's Name	8. 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			CA	DT	09
X	RQ, UN1888, Waste Chloroform, 6.1, III	2	DM	160	P	D022	1B1	
X	RQ, UN2809, Waste Mercury, 8, III	1	DF	15	P	D009	201	
X	UN1090, Waste Acetone, 3, II	4	DM	1525	P	U002	D001	XX
X	UN1428, Waste Sodium, 4.3, I	1	DF	6	P	D001	D003	XX

22DCR 66262.20(a)

97

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### Function Specific –shipping paper

Use separate line items when...

- ❖ Different proper shipping names
- ❖ Different container types are used (DM / DF)
- ❖ Different waste codes used

Generator's Name	8. 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			CA	DT	09
X	UN1888, WASTE CHLOROFORM SOLUTES, N.O.S. (SULPHURIC ACID, WASTE ACID) 6.1, III, 30-14780 ACID (SBRAS, SEC - 493147808)	2	DF	896	P	D007	D008	
X	UN1175, WASTE CORROSIVE SOLUTES, N.O.S. (SULPHURIC ACID, WASTE ACID) 8, II, 33-14780 ACID (SBRAS, SEC - 493147808)	1	DF	262	P	D007	D008	

22DCR 66262.20(a)

98

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

Generator's Name	8. 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			CA	DT	09
X	RQ, HAZARDOUS WASTE, SOLID, N.O.S. (CHROMIUM LEAD), 9, NA3077, PGIII (D007, D008) SHIPAL ST / PNTCHIPS - PROFILE# 32011110	002	BA	2000	P			
X	RQ, HAZARDOUS WASTE, SOLID, N.O.S. (CHROMIUM LEAD), 9, NA3077, PGIII (D007, D008) SHIPAL ST / PNTCHIPS - PROFILE# 32011110	002	DM	1000	P			
	NON-RCRA HAZARDOUS WASTE, LIQUID (LABPACK#LP02)	0	0	1	DF			00150
	NON-RCRA HAZARDOUS WASTE, SOLID (LABPACK#LP10)	0	0	1	DF			00050

22DCR 66262.20(a)

99

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### Function Specific –shipping paper

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<small>14 Special Handling Instructions and Additional Information</small>			
<b>9b 1-Profile CH359987</b>	<b>9b 3-Profile CH359975</b>	<b>9b 1-ERG# 151</b>	<b>9b 3-ERG# 127</b>
<b>9b 2-Profile CH359980</b>	<b>9b 4-Profile CH359998</b>	<b>9b 2-ERG# 141</b>	<b>9b 4-ERG# 154</b>

15 GENERATOR/OFFEROR'S CERTIFICATION: 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, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I report shipment and I am the Primary Contact. I certify that the contents of this consignment conform to the terms of the attached EPA Hazardous Waste Manifest.

**Item 14: Special Handling Instructions and Additional Information**

- EPA is limiting the use of Item 14 primarily to waste handlers to record their site-specific or shipment-specific information.
- Waste handlers, however, cannot be required to enter information in this space to meet state regulatory requirements.

22CCR 66.262-20(a)

ES&I ENVIROSERVICES, INC. 100

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### Function Specific –shipping paper

**49 CFR §172.205 Hazardous waste manifest.**

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

**(b) The shipper (generator) shall prepare the manifest in accordance with 40 CFR part 262.**

**(c) The original copy of the manifest must be dated by, and bear the handwritten signature of, the person representing:**

- The **shipper (generator)** of the waste at the time it is offered for transportation, and
- The initial carrier accepting the waste for transportation.**

49CFR 172.205

ES&I ENVIROSERVICES, INC. 101

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ES&I ENVIROSERVICES, INC.

### Function Specific –shipping paper

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15 GENERATOR/OFFEROR'S CERTIFICATION: 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, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I report shipment and I am the Primary Contact. I certify that the contents of this consignment conform to the terms of the attached EPA Hazardous Waste Manifest.

<small>Generator/Officer's Printed/Typed Name</small> <b>Ron Jensen</b>	<small>Signature</small> <i>Ron Jensen</i>	<small>Month</small> <b>10</b>	<small>Day</small> <b>26</b>	<small>Year</small> <b>06</b>
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16 Special Handling Instructions

**Item 15: Generator's / Offeror's Certification**

- Manifest Certification can be signed by the waste generator.
- Another person, such as a transporter making a waste pick-up and helping with the pre-transportation functions, may sign the certification statement on the manifest in their capacity as an offeror.

22CCR 66.262-20(a)

ES&I ENVIROSERVICES, INC. 102

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

15. GENERATOR/OFFEROR'S CERTIFICATION: 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 government 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.

Generator's/Officer's Printed/Typed Name: *Portia Niek* Signature: *[Signature]* Month: *12* Day: *17* Year: *2017*

16. International Shipments:  Report to U.S.  Export from U.S. Port of activity: \_\_\_\_\_

Generator's/Officer's Printed/Typed Name: *Laura McKinlay* Signature: *[Signature]*

16. International Shipments:  Report to U.S.  Export from U.S. Port of activity: \_\_\_\_\_

Generator's/Officer's Printed/Typed Name: *[Signature]* Signature: *[Signature]*

16. International Shipments:  Report to U.S.  Export from U.S. Port of activity: \_\_\_\_\_

Generator's/Officer's Printed/Typed Name: *X Theresa* Signature: *X Brad Smith*

16. International Shipments:  Report to U.S.  Export from U.S. Port of activity: \_\_\_\_\_

103

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

Certification-

"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 government 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."

49CFR 172.204

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ESCI ENVIROSERVICES, INC.

### Function Specific –shipping paper

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed Name: *Stephen Roach* Signature: *[Signature]* Month: *10* Day: *26* Year: *106*

Transporter 2 Printed/Typed Name: \_\_\_\_\_ Signature: *[Signature]*

18. Emergency Information Space

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: *Rafael Alvarez* Signature: *[Signature]*

Transporter 2 Printed/Typed Name: \_\_\_\_\_ Signature: \_\_\_\_\_

15. GENERATOR/OFFEROR'S CERTIFICATION: 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 government 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.

Generator's/Officer's Printed/Typed Name: *ALAN CHIP PHILLIPS* Signature: *[Signature]* Month: *11* Day: *29* Year: *2017*

16. International Shipments:  Report to U.S.  Export from U.S. Port of activity: \_\_\_\_\_

17. Transporter Acknowledgment of Receipt of Materials

105

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Function Specific –shipping paper

18a. Discrepancy			
18b. Alternate Facility (or Generator)			
18c. Signature of Alternate Facility (or Generator)			
17. Transporter Acknowledgment of Receipt of Materials			
18. Discrepancy			

• Signature of Alternate Facility receiving waste or generator to which waste is returned (Item 18c).

22DCR 66262-20(a)  
106

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Function Specific –shipping paper

10. Containers	11. Total Quantity		12. Unit Weights		13. Waste Codes	
	No.	Type				
1	003	DM	565	P	181	
2	003	DM	4160	P	221	223
3	002	DM	70	P	512	513

18. Discrepancy			
18b. Alternate Facility (or Generator)			
18c. Signature of Alternate Facility (or Generator)			

22DCR 66262-20(a)  
107

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Function Specific –shipping paper

19	H040	H040	H050	H132
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Item 19: Hazardous Waste Report Management Method Codes

- Entered by the first TSDF that receives the waste.
- This code best describes the way in which the waste is to be managed when received by the TSDF.
- States may have different management method codes.
- These codes can be modified yearly, so keep abreast at [www.epa.gov/epaoswer/hazwaste/data/index.htm#br](http://www.epa.gov/epaoswer/hazwaste/data/index.htm#br)

22DCR 66262-20(a)  
108

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### Function Specific –shipping paper

10 Hazardous Waste Report Management Method Codes (i.e. codes for hazardous waste treatment, disposal, and recycling systems)

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20 Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in item 10a


Printed/Typed Name: **Felton Greer** Signature: **Felton Greer** Month: **10** Day: **28** Year: **06**

EPA Form 6700-22 (Rev. 1-04) Previous editions are obsolete.

**Hand-written original signature**

**Item 20: TSDF Certification of Receipt**

TSDFs must sign the Owner or Operator Certification field on every manifest relating to shipments brought to a facility for delivery, either to acknowledge receipt of all the materials on the manifest, or to acknowledge that those materials identified in the discrepancy space (including rejected wastes and residues) were not received for management at the facility.


109

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### Function Specific

Waste or not?  
If empty, why manifest?


Arizona CA 91702  
Industry Phone: 800 395-6726  
10. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))

11	12	13	10. Containers			11. Total Quantity	12. Unit Wt/Awt	13. Waste Codes
			No.	Type	Quantity			
1	Non-RCRA, Hazardous waste, solid (Empty drums last containing greases)	DM	50	P	512			
2	Non-RCRA, Hazardous waste, solid (Empty drums last containing oil and greases)	DM	15	P	512			
3	Non-RCRA, Hazardous waste, solid (Empty drums last containing oil)	DM	50	P	512			
4								

14. Special Handling Instructions and Additional Information  
 1) Profile #041939 2) Profile #041939 3) Profile #041939  
 Work Order #20163944  
 Wear proper PPE when handling waste.  
 24. HS QR # C-Voc

15. GENERATOR/SUPPORTER'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled according to the applicable requirements 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 assignment conform to the terms of the attached EPA Acknowledgment of Consent.  
I certify that the waste management agreement identified in 40 CFR 263.270(a) (1) is a large-quantity generator or (2) (F) is a small-quantity generator (SQG).

Generator/Supporter's Printed/Typed Name: **Olivera Diedo** Signature: **Olivera Diedo** Month: **9** Day: **12** Year: **16**


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### Function Specific -Marking and Labeling

What is Marking?

What is Labeling?

Marking and labeling for cylinders

Marking and labeling for hazardous waste drums


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ESCI ENVIROSERVICES, INC.

**Function Specific -Marking and Labeling**

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**THE TERM MARKING MEANS**



**Markings**

Basic requirement:

- Proper shipping name
- Identification number

49CFR 171.8, 172.301(a)

112

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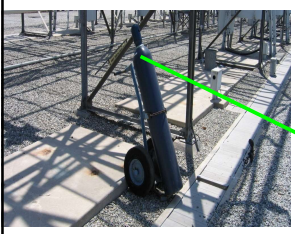
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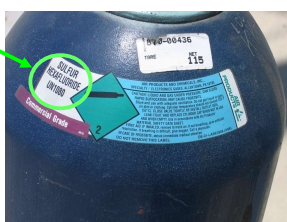
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**Function Specific -Marking and Labeling**

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Example of cylinder with DOT Marking



49CFR 172.301(a)

113

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ESCI ENVIROSERVICES, INC.

**Hazardous Waste Marking**

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HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL. IF FOUND, CONTACT THE NEAREST POLICE OR PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES.

GENERATOR INFORMATION  
NAME: The District  
ADDRESS: 123 On the beach PHONE 714-555-0000  
CITY: Nutkrington BCH STATE: ZH ZIP: 92705  
EPA / MANIFEST ID NO. / DOCUMENT NO: CAD01234567  
WASTE NO. \_\_\_\_\_ ACCUMULATION START DATE: 04-1-15  
CONTENTS COMPOSITION \_\_\_\_\_

PHYSICAL STATE HAZARDOUS PROPERTIES  FLAMMABLE  TOXIC  
 SOLID  LIQUID  CORROSIVE  REACTIVITY  OTHER \_\_\_\_\_

D.O.T. PROPER SHIPPING NAME AND UN OR NA NO. WITH PREFIX  
**HANDLE WITH CARE!**  
STYLE 990348

**Pre-transport**

Enter the address of the facility generating the waste or the address of the parent facility if the waste is generated in the field under remote generation provisions.

Enter the EPA ID number of the facility generating the waste or the EPA ID number of the parent facility if the waste is generated in the field under remote generation provisions.

Enter the date hazardous waste was first placed in the container, this should be the date you put the label on the drum.

22CCR 65262.32(a) & (b)

114

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**Hazardous Waste Marking**

**Pre-transport**

Enter EPA and/or CA waste code.

Enter a description of the waste in the drum.

Mark the appropriate Physical State, either Solid or Liquid.

Mark the appropriate Hazard Property.

22CCR 66262.32(a) & (b)

115

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**Hazardous Waste Marking**

**Offered for transport**

Enter the Manifest Tracking Number shown in the top right corner of the hazardous waste manifest.

DOT description:  
-Proper shipping name  
-Identification number (UN or NA)  
Or Non-RCRA name

Hint:  
Compare description to UHWM entry  
-They should match

49CFR 172.301(a) 22CCR 66262.32(a) & (b)

116

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**Hazardous Waste Marking**

**Marking in good condition!**

Legible!

Firmly attached

Near USDOT hazard warning label

Completed-

Generator info  
EPA ID#  
Manifest Tracking number  
DOT info

49CFR 172.301(a) 22CCR 66262.32(a) & (b)

117

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### Hazardous Waste Marking

Compare

Proper Shipping Name and ID#

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### Hazardous Waste Marking

Compare

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### Function Specific - Marking and Labeling

THE TERM LABEL MEANS

49 CFR 171.8, 172.400(a)

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Function Specific -Marking and Labeling

10. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	11. Container No.	11. Container Type	11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
X RQ, UN1888, Waste Chloroform, 6.1, II	2	DM	160	P	D022 B
X RQ, UN2809, Waste Mercury, 8, II	1	DF	15	P	D009 R
X UN1090, Waste Acetone, 3, II	4	DM	1525	P	U002 D001 B
X UN1312, Waste Bombs, 4.1, II	1	DF	6	P	D001 D003 T

49CFR 172.406(a)

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Function Specific -Marking and Labeling

Label placement:  
Near Proper Shipping Name and ID#  
same side – same surface

49CFR 172.406(a)

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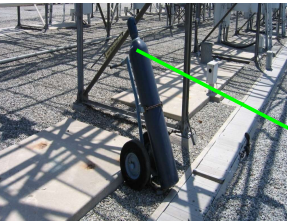
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ESCI ENVROSERVICES, INC.

**Function Specific -Marking and Labeling**



Example of cylinder with CGA C-7 label



★ Marking and label must be legible and un-damaged

49CFR 172.401, 172.400(a)(1)

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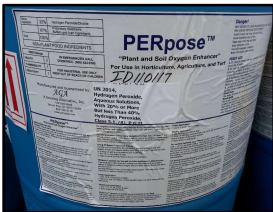
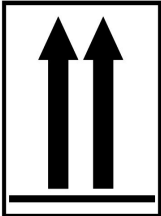
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ESCI ENVROSERVICES, INC.

**Function Specific -Marking and Labeling**

Orientation marking



128

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ESCI ENVROSERVICES, INC.

**New label and placard**



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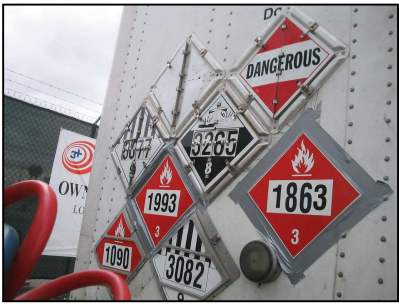
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ESCI ENVIROSERVICES, INC.

**Function Specific -Placarding**

- Placarding



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ESCI ENVIROSERVICES, INC.

**Function Specific -Placarding**

Placarding

- Required for all bulk packages
- For non-bulk: Except for:
 

Radioactive Materials	}	Collectively Called Table 1
Poison Gases		
Inhalation Hazards (6.1 PG 1)		
Dangerous when wet		
Explosives 1.1, 1.2, 1.3		
Temperature critical Organic Peroxides		

➤ 1,001 pounds or greater (approx 2, 55-gal drums)  
TOTAL Gross Weight

★ No placard required Class 9 materials  
(labels are required!)

49CFR 172.504

131

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ESCI ENVIROSERVICES, INC.

**Placarding**

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Exception:

- Non-bulk, (no totes, 1 yard box)
- Table 2 materials
- Aggregate total less than 1,001 pounds

-NOT required to placard.

NOTE: Some international modal rules may prohibit using this exception

132

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ESCI ENVIROSERVICES, INC.

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Placarding

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Option:  
-Two or more Table 2 materials -Requiring different placards

**MAY** use **DANGEROUS** placard instead of required placards

**BUT!!!**

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ESCI ENVIROSERVICES, INC. 133

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ESCI ENVIROSERVICES, INC.

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Placarding

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-But, if you load  
2,205 lbs. of a single hazard class  
at a single facility

You must:  
Placard for that material-  
in addition to the DANGEROUS PLACARD

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ESCI ENVIROSERVICES, INC. 134

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ESCI ENVIROSERVICES, INC.

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Placarding

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-But, if you load  
2,205 lbs. of a single hazard class  
at a single facility

You must:  
Placard for that material-  
in addition to the DANGEROUS PLACARD

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ESCI ENVIROSERVICES, INC. 135

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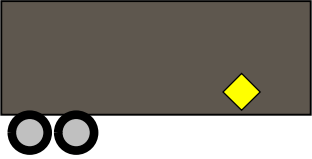
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ESCI ENVROSERVICES, INC.

Placarding

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500# - 5.1



Total Weight: 500#

ESCI ENVROSERVICES, INC.

136

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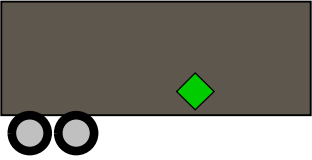
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ESCI ENVROSERVICES, INC.

Placarding

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200# - 2.2



Total Weight: 700#

ESCI ENVROSERVICES, INC.

137

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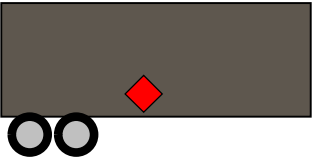
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ESCI ENVROSERVICES, INC.

Placarding

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100# - 3



Total Weight: 800#

ESCI ENVROSERVICES, INC.

138

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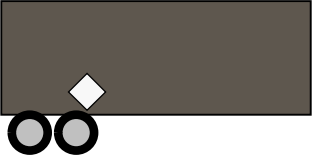
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ESCI ENVROSERVICES, INC.

### Placarding

250# - 6.1



Total Weight: 1050#

ESCI ENVROSERVICES, INC.

139

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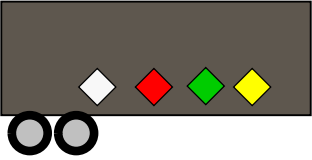
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ESCI ENVROSERVICES, INC.

### Placarding



Total Weight: 1050#

ESCI ENVROSERVICES, INC.

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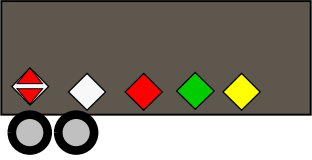
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ESCI ENVROSERVICES, INC.



### Placarding

DANGEROUS



ESCI ENVROSERVICES, INC.

141

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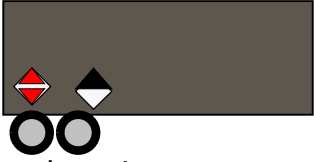
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ESCI ENVIROSERVICES, INC.

Placarding

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DANGEROUS



Add 2,205# at one location  
Placard that hazard class also!

ESCI

142

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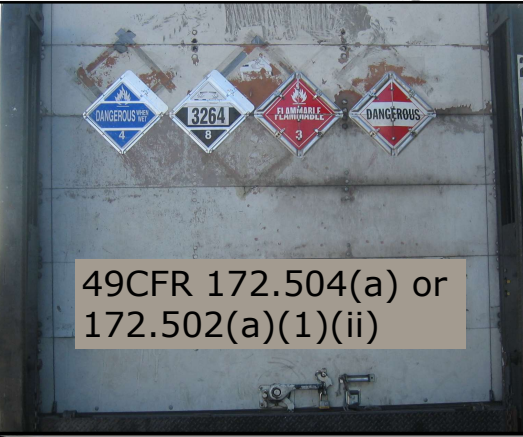
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ESCI ENVIROSERVICES, INC.



49CFR 172.504(a) or  
172.502(a)(1)(ii)

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ESCI



49CFR 172.516(a) or (c)(1)  
Watch for the obvious

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ES&I ENVIRONMENTAL SERVICES, INC.

**Function Specific -Placarding**

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Placarding must:

- Be on all four sides of the vehicle
- Have words horizontal, reading left to right
- Not be obscured or covered
- Be three inches from other markings
- Be removed when hazmat is removed from the vehicle

49CFR 172.516 145

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ES&I ENVIRONMENTAL SERVICES, INC.

**Function Specific -Placarding**

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**DOT Placards**

If the truck is not properly placarded,  
the generator/shipper,  
must supply the required placards  
-if the shipment requires placards

49CFR 172.506(a) 146

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ES&I ENVIRONMENTAL SERVICES, INC.

**Function Specific -Placarding**

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**DOT Markings**

If the truck is not properly marked,  
the generator/shipper,  
must supply the required markings if the shipment  
requires marking (rare- call for assistance if unsure)

49CFR 172.506(a) 147

ID# required for all bulk packages

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**Function Specific**  
**-Loading, Moving and Unloading**

All hazardous materials packages must be secured against movement during transportation.



49CFR 177.834

ESCI ENVIROSERVICES, INC.

148

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**Function Specific**  
**-Loading, Moving and Unloading**

Certain hazardous materials may not be transported together unless they are separated (min 4') and segregated (off the deck). i.e.

- Corrosive liquids and Flammable Solids
- Corrosive liquids and Oxidizers or Organic Peroxides
- Flammable liquids and Oxidizers



49CFR 177.848

ESCI ENVIROSERVICES, INC.

149

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**Function Specific**  
**-Loading, Moving and Unloading**

No smoking while loading or unloading.

Keep fire away during loading and unloading. (open flames etc.)



Handbrake must be set while loading and unloading.

49CFR 177.834(c) & (d)

ESCI ENVIROSERVICES, INC.

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ESCI ENVROSERVICES, INC.

### Incidents and Emergencies



Verify this book or other ERI is present (with carrier) when offering hazmat

- If not, then verify there is a SDS or other emergency response information which comply with the requirements
- If unsure about compliance do not offer material

49CFR 172.602(c)

151

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ESCI ENVROSERVICES, INC.

### Incidents and Emergencies

DOT Immediate notification- Telephonic



DOT "Emergency" means that as a direct result of hazardous materials IN TRANSIT (loading and unloading included):

- A person is killed;
- A person requires hospitalization;
- The general public is evacuated for an hour or more;
- A major transportation artery or facility is shut down for an hour or more;
- The operational flight pattern of an aircraft is altered;

49CFR 171.15

152

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ESCI ENVROSERVICES, INC.

### Incidents and Emergencies


DOT Immediate notification- continued

The incident involves a radioactive material or etiologic agents;

More than 450L of a liquid marine pollutant or more than 400Kg of a solid marine pollutant is released; or

None of the above are true; but, in the judgment of the **carrier**, the incident is of a similar concern and should be reported.

After notification of emergency response authorities



49 National Response Center 1-800-424-8802

153

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ESCI ENVIROSERVICES, INC.

### Incidents and Emergencies

DOT written notification within 30 days:  
Any circumstances under "emergency"

Unintentional release of hazardous materials  
Discharge of any amount of hazardous waste

Any undeclared hazardous material is found



49CFR 171.16

154

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When the inspectors find the truck with YOUR waste-



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ESCI ENVIROSERVICES, INC.

### Inspection

10. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group if any)	13 Containers		11 Total	12 Unit	14 Waste Code
	No.	Type	Quantity	Wt/Vol	
HAZ. WASTE SOLIDS CONTAINING FLAMMABLE LIQUIDS, NOS, FUEL FILTERS & LUBRICANTS	1	RA	1	Y	0001 352
12 Special Handling Instructions and Additional Information MENORF 881 * PROFILE # 881 * 22120020 FUEL FILTERS * ADDITIONAL EPA CODES: 881 , NONE * APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT					
15 OPERATIONAL INFORMATION & CERTIFICATION. I hereby declare that the contents of this declaration are true and accurately described above by the proper shipping name, and are classified, packaged, labeled and identified, and are in all respects in proper condition for transport according to applicable regulations and national governmental regulations. I understand and accept the Penalty Clause for the violation of these regulations and I am the driver of the vehicle. I have signed this declaration and I am the driver of the vehicle. I have signed this declaration and I am the driver of the vehicle. I have signed this declaration and I am the driver of the vehicle.					
16 Signature of Driver/Operator X Bora Nhek <span style="float: right;">141517</span>					
17 Signature of Inspector [Signature] <span style="float: right;">141517</span>					

156

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ESCI ENVIROSERVICES, INC.

### Inspection



**In compliance, if not why?**

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ESCI ENVIROSERVICES, INC.

### Inspection

10. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	11. Container		12. Unit	13. Waste Codes	
	No.	Type	Quantity	W/	C/W
RD WASTE FUEL, AVIATION, TURBINE ENGINE, 3, UN 1805, PGIII	001	TT	215	G	0001 345 0008

215 gallons ?

14. Quantity	1485	15. Type	JDE	16. U.S. EPA ID Number	en #133107
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161

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ESCI ENVIROSERVICES, INC.

### Inspection

10. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	11. Container		12. Unit	13. Waste Codes	
	No.	Type	Quantity	W/	C/W
1. HAZARDOUS SOLIDS CONTAINING FLAMMABLE LIQUID (N.O.S. FUEL, AVIATION TURBINE ENGINE) 4.1 UN3175 PG III 8000011 2808133	1	DM	40		0001 352 OUT 343
2. NON-ECBA HAZARDOUS WASTE, LIQUID (HYDRAULIC FLUID)	1	DM	50	P	NONE 343 OUT 204

162

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ES&I ENVIROSERVICES, INC.

### Inspection

HM	and packing group (if any)	no.	type
X	1 WASTE CORROSIVE LIQUID, FLAMMABLE, N.O.S., (20% PHOSPHORIC ACID, 20% DENATURED ALCOHOL, 60% DISTILLED WATER), 9, UN2620, PGII	0 0 1	DF
X	2 WASTE METHANOL SOLUTION, 3, UN1230, PGII	0 0 1	DF
X	3 WASTE DIISOPROPYLAMINE, 3, UN1158, PGII	0 0 1	DF
	4		

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 14. Special Handling Instructions and Additional Information:  
 9b1) WACHTING SOLUTION, NAERG#132 (LxSDF) ANCON-JOB#901  
 9b2) MERCURIC THIOCYANATE SOLUTION (NAERG#131) (LxSDF)  
 9b3) GLASS JAR WITH DIPA RESIDUE, NAERG#132 (LxSDF) DCCC

6.1, UN1646, II

ES&I ENVIROSERVICES, INC. 163

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ES&I ENVIROSERVICES, INC.

### Inspection

Environmentally hazardous substances liquid

FRATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
		Hazardous Waste Liquid, N.O.S. (Chrome), 9, UN3082, PGIII

GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))
		Hazardous Waste Liquid, N.O.S. (Chrome), 9, UN3082, PGIII
		NA

ES&I ENVIROSERVICES, INC. 164

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ES&I ENVIROSERVICES, INC.

### Inspection

ES&I ENVIROSERVICES, INC. 165

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ESCI ENVIROSERVICES, INC.

### Inspection

<input checked="" type="checkbox"/>	1. UN1760, WASTE CORROSIVE LIQUIDS, N.O.S., (LABPACK#05), 8, PGII	O
<input checked="" type="checkbox"/>	2. UN2822, WASTE CORROSIVE LIQUIDS, TOXIC, N.O.S., (LABPACK#01), 8 (6.1), PGII	C

172.202(b) Except as provided in this subpart, the basic description specified in paragraphs (a)(1), (2), (3), and (4) of this section must be shown in sequence **with no additional information interspersed**. For example, "UN2744, Cyclobutyl chloroformate, 6.1, (8, 3), PG II."

166

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ESCI ENVIROSERVICES, INC.

### Inspection

<input checked="" type="checkbox"/>	1. RCRA UN2822, WASTE MERCURY, 8, PGIII (0009)		O	D	1	DF	00010	P	D009	181		
<input checked="" type="checkbox"/>	2. RCRA UN2823, WASTE MERCURY, 8, PGIII (0009)		O	D	1	CH	00150	P	D009	181		

14. Special Handling Instructions and Additional Information:  
 9016 (952) RTB#277811 MERCURY DEBRIS  
 Lx WIP#4761755 Mercury Device  
 NAERG#172 ANCON-JOB#301-5-3913 ANCON-PO#55633

15. GENERATOR/OFFENDER'S CERTIFICATION: 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/qualified, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If report shipment and use the Primary Exporter. I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consignment.

18a. Discrepancy Indication Space:  Quantity  Type  Hazard  Packing  Label  Projection

Line 452) Received 208 P of 14 Mercury Devices - PSW; UN 3506; Mercury contained in Manufactured Articles, 8, (6.1) PGIII, RQ. Retched Manifest Reference Number 4st-96114 P. B. C. Kammerl

18b. Alternate Facility (or Generator): U.S. EPA ID Number: IAWC-Merrez 31111

167

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### Inspection

RIN - 0310-14270

33-13239 EMPTY PRODUCT CONTAINER

**HAZARDOUS WASTE**

SOLID  LIQUID  
 CORROSIVE  REACTIVITY  OTHER

U.S. DOT DESCRIPTION: NON RCRA HAZARDOUS WASTE, SOLID (EMPTY CONTAINERS/ADHESIVES)

**HANDLE WITH CARE!**

U.S. DOT DESCRIPTION: NON RCRA HAZARDOUS WASTE, SOLID (EMPTY CONTAINERS/ADHESIVES)

**HANDLE WITH CARE!**

168

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ES&I ENVIROSERVICES, INC.

### Inspection

10. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, Quantity and Packing Group if any)	11. Containers	12. Unit	13. Gross Weight	14. Net Weight	15. Other Data
PERFORMIC ACID SOLUTIONS TOXIC FLAMMABLE N.O.S. (HEXAMETHYLENE DIISOCYANATE, BUTYL ACRYLATE) 6.1(1.3) ORGANO POLYIMIDE 699155	25	DM	25	7	0001 331 QUITS 2188
SUB WASTE SOLIDS CONTAINING PERFORMIC ACID N.O.S. (CONTAINS 361 POUNDS) 6.1(1.3) UNSTABILIZED 2801131	1	DM	1	1	0001 343 QUITS 3108
SUB WASTE SOLIDS CONTAINING PERFORMIC ACID N.O.S. (CONTAINS 361 POUNDS) 6.1(1.3) UNSTABILIZED 2801131	1	DM	1	1	0001 334 QUITS 2190
AMINES LIQUID CORROSIVE N.O.S. (ALIPHATIC AMINES) 8 UNSTABILIZED 3.1(1.3) UNSTABILIZED 2801131	1	DM	1	1	0001 331 QUITS 2071

16. Special Handling Instructions and Handling Information: **SEE TRUCK LOGS 2188, 2190, 2071**

17. SK AUTH'D TO USE SUBSEQUENT CARRIERS: **40343, 41098, 81681, 82739, 86256**

18. GENERATOR/SHIPPER CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled, and are in full respect to proper condition for transport and fully in compliance with applicable Federal and State Government regulations. I expect to transport this to the following location: **0002106468**

19. I certify that the contents of this manifest conform to the terms of the above EPA Acknowledgment of Consent.

20. Signature of Generator/Shipper: **[Signature]** Date: **12/13/06**

21. Signature of Carrier: **[Signature]** Date: **12/13/06**

22. Signature of Receiver: **[Signature]** Date: **12/13/06**

23. Signature of Inspector: **[Signature]** Date: **12/13/06**

ES&I ENVIROSERVICES, INC.

169

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ES&I ENVIROSERVICES, INC.

### Inspection

92626

STATE WASTE CODE: 291

NO. 004101821 JJK

**CARE! TOXIC WASTES**

FAX: (202) 548-2252 www.phmsa.dot.gov

CP-1

Form Approved: OMB No. 2000-0022

Manifest Tracking Number: **004101821 JJK**

10. U.S. DOT Description: **[Blacked out]**

11. Containers: **[Blacked out]**

12. Unit: **[Blacked out]**

13. Gross Weight: **[Blacked out]**

14. Net Weight: **[Blacked out]**

15. Other Data: **[Blacked out]**

16. U.S. DOT Description: **[Blacked out]**

17. Containers: **[Blacked out]**

18. Unit: **[Blacked out]**

19. Gross Weight: **[Blacked out]**

20. Net Weight: **[Blacked out]**

21. Other Data: **[Blacked out]**

22. Signature of Generator/Shipper: **[Signature]** Date: **[Blacked out]**

23. Signature of Carrier: **[Signature]** Date: **[Blacked out]**

24. Signature of Receiver: **[Signature]** Date: **[Blacked out]**

25. Signature of Inspector: **[Signature]** Date: **[Blacked out]**

ES&I ENVIROSERVICES, INC.

170

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ES&I ENVIROSERVICES, INC.








DOT Helpline 1-800-HMR-4922

[www.phmsa.dot.gov/hazmat](http://www.phmsa.dot.gov/hazmat)

mhagen@enviroservices.com

## Questions ?

ES&I ENVIROSERVICES, INC.

171

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# Hazardous Waste Shipment Checklist

## HAZARDOUS WASTE MANIFEST:

- A** Box 1 – Ensure correct EPA ID # for the facility
- B** Box 2 – Ensure correct number of manifest pages (should be “1” unless continuation sheets used)
- C** Box 3 – Ensure the transport vendor emergency response number is correct number
- D** Box 5 – Ensure the entry contains all required information
- E** Box 6 – Ensure the transporter company name and EPA ID # entered is the same as the vendor who is there picking up the waste
- F** Box 8 – Make sure final TSD facility destination information is complete and accurate, and TSD facility EPA ID number is listed.
- G** Box 9a – If US DOT hazardous materials entries are present place “X” (or RQ if req’d) in column unless US DOT hazmat entries are listed first on the manifest
- H** Box 9b – Ensure, if US DOT regulated (i.e. a RCRA hazardous waste): Identification number, proper shipping name, hazard class number and packing group are entered *in that order* only and printed neatly! Note: Packing Group (PG) is in Roman numerals (I, II or III). If Non-RCRA, non-DOT waste: Printed neatly and including description of waste.
- I** Box 10 – Ensure the number and type of containers are correct and neatly printed.
- J** Box 11& 12 – Ensure the total quantity of the specific waste being shipped is correct and neatly printed...both the amount and unit of measure code. Do not use capacity of package as total unless full.
- K** Box 13 – Ensure the correct Calif. & (if appl.) EPA waste codes are listed (and match the CA and EPA waste codes marked on the hazardous waste label)
- L** Box 14 – Ensure the hazardous waste profile number, any additional waste description, and the transport vendor’s emergency response number and your contract or PO number with the vendor are correct and neatly printed.
- M** Box 15 & 17 - Print (neatly) & sign generator’s name, and verify transporter’s name (printed neatly) & signature

## EPA HW LABEL MARKING: Ensure the following are legibly entered prior to transportation:

- ① Generator information Same as Box 1 (**D**)      ② EPA identification number
- ③ Manifest number (include all numbers and letters): Same as Box 4
- ④ DOT proper shipping name and ID number (preceded by “UN” or “NA”): Same as Box 9b (**H**)

## USDOT HAZARD LABEL: If a US DOT haz. material/RCRA waste, affix a hazard class label:

Ensure label hazard class and hazard class in Box 9b (**H**) match

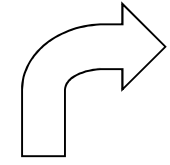
## PACKAGE (i.e. container):

Ensure the package is correct for Packing Group listed in **H**. PG I (X), PGII (X or Y), PGIII (X, Y or Z)

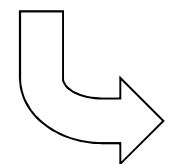
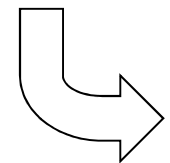
No leaks or residue. Properly and completely closed.

*Does transporter have emergency response information?*

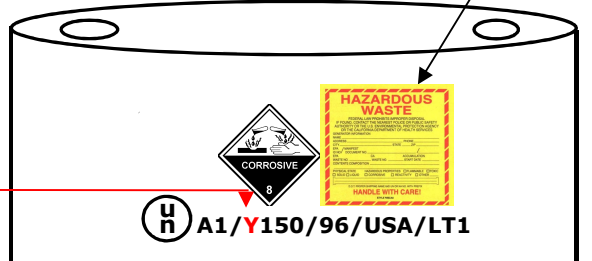
① HW Label Items



COMPARER




HW Label placed near diamond-shaped USDOT Hazard Label – and hazard label matches hazard class in Box 9b (**H**)



## **Basic Guide for LAB PACKS**

### **PRE PACKAGING**

- Identify ALL material to be placed into Lab Pack
- Classify ALL material to be placed in Lab Pack
- Eliminate unauthorized materials
- Must be one hazard class only
- Paper pre-pack list of items – list all materials for a single lab pack
- Ensure authorized materials and compatibility
- Select appropriate outer packaging
- Select appropriate filler and cushioning material

### **LOADING /CLOSING PACKAGE**

- Ensure all inner containers have secure closures and are not leaking
- Liquid contents do not exceed absorbent capabilities
- Ensure containers are spaced so there is no possibility of contact in ANY direction.
- Closures are upright and tight.
- Fill package with inner containers and absorbent.
- Fill package to the top with absorbent
- Do not exceed DOT package max load and do not exceed closed lab pack package max weight (452#).
  - Yes, you might have to weigh it!
- Follow outer package manufactures closing instructions.

### **COMMUNICATIONS**

- Technical name is not required for lab packs or UHWM.
- RQ marking and UHWM is required if Hazardous Substance.
- Mark with completed EPA warning label containing proper shipping name, ID#, RQ if required.
- Place USDOT hazard warning label near proper shipping name marking.
- Two hazard warning labels opposing side if overpacked on pallet.
- Two orientation arrow markings on under 119-gallon outer container.
- Consider placing “lab pack” notation on UHWM



U.S. Department  
of Transportation  
Pipeline and  
Hazardous Materials  
Safety Administration

# DOT CHART 16

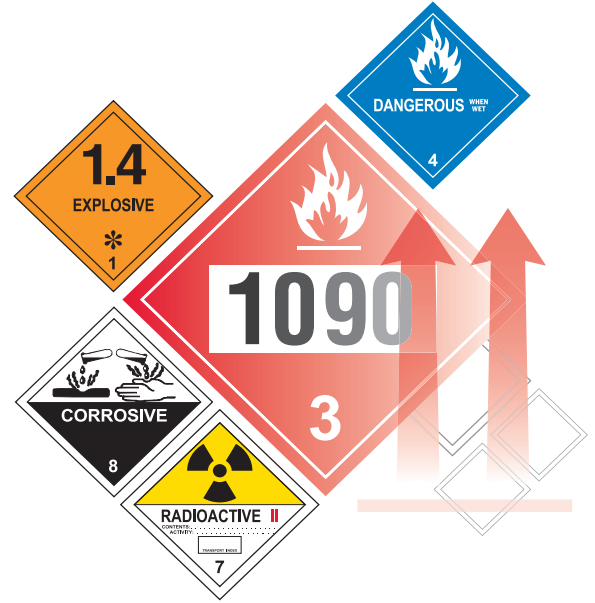
## Hazardous Materials Markings, Labeling and Placarding Guide

Refer to 49 CFR, Part 172:

Marking - Subpart D

Labeling - Subpart E

Placarding - Subpart F



**NOTE:** This document is for general guidance only and should not be used to determine compliance with 49 CFR, Parts 100-185.

### HAZARDOUS MATERIALS MARKINGS

Package Orientation  
(Red or Black)



§172.312(a)

Keep Away from Heat



§172.317



§173.25(a)(4)

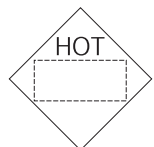
Fumigant Marking



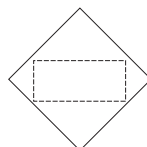
§172.302(g) and §173.9



§172.313(a)



§172.325



§172.332(a)

Biological Substances,  
Category B



§173.199 (a)(5)

NEW Lithium battery handling marking,  
Transition December 31, 2018



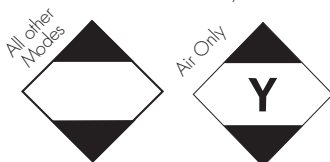
§173.185

Marine Pollutant



§172.322

Limited Quantity



§172.315

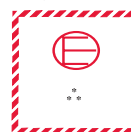
ORM-D, Transition  
December 31, 2020



§172.316

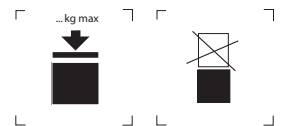


Excepted Quantity



§173.4a(g)

Marking of IBCs



§178.703(b)(7)(i)

# Hazardous Materials Warning Labels

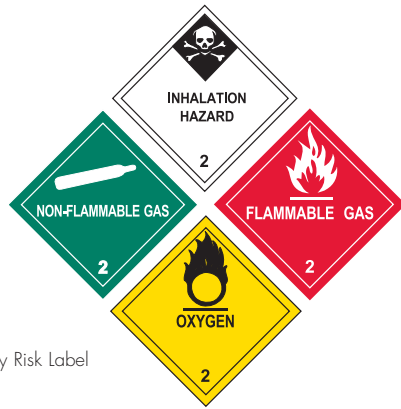
Actual label size: at least 100 mm (3.9 inches) on all sides

**CLASS 1 Explosives:**  
Divisions 1.1, 1.2, 1.3, 1.4, 1.5, 1.6



§172.411

**CLASS 2 Gases:**  
Divisions 2.1, 2.2, 2.3



§172.405(b), §172.415, §172.416, §172.417

**CLASS 3 Flammable Liquid**



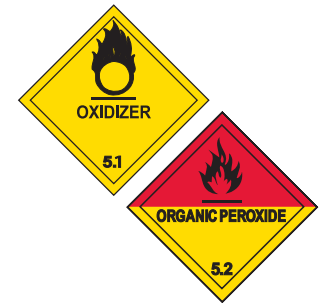
§172.419

**CLASS 4 Flammable Solid, Spontaneously Combustible, and Dangerous When Wet:**  
Divisions 4.1, 4.2, 4.3



§172.420, §172.422, §172.423

**CLASS 5 Oxidizer, Organic Peroxide:**  
Divisions 5.1 and 5.2



§172.426, §172.427

\* Include compatibility group letter.

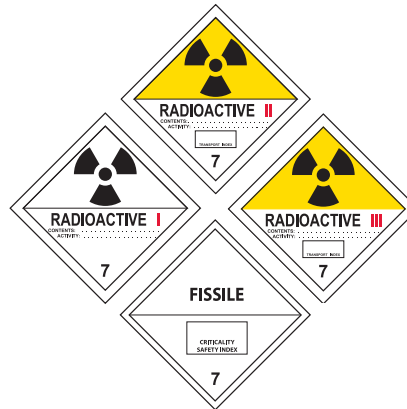
\*\* Include division number and compatibility group letter.

**CLASS 6 Poison (Toxic), Poison Inhalation Hazard, Infectious Substance:**  
Divisions 6.1 and 6.2



§172.323, §172.405(c), §172.429, §172.430, §172.432

**CLASS 7 Radioactive**



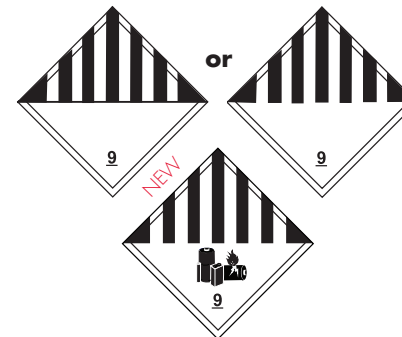
§172.436, §172.438, §172.440, §172.441

**CLASS 8 Corrosive**



§172.442

**CLASS 9 Miscellaneous Hazardous Material**



§§172.446, §172.447

**Cargo Aircraft Only**



§172.448

**Empty Label**



§172.450

For Regulated Medical Waste (RMW), an Infectious Substance label is not required on an outer packaging if the OSHA Biohazard marking is used as prescribed in 29 CFR 1910.1030(g). A bulk package of RMW must display a BIOHAZARD marking.

Effective January 2019, the NEW Class 9 lithium battery handling label must be used for lithium battery shipments.

# Hazardous Materials Warning Placards

Actual placard size: at least 250 mm (9.84 inches) on all sides

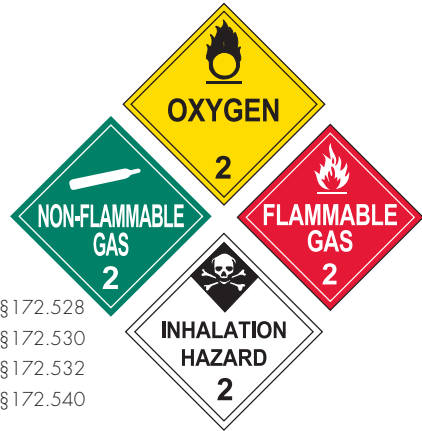
## CLASS 1 Explosives



§172.522  
§172.523  
§172.524  
§172.525

\* For Divisions 1.1, 1.2, or 1.3, enter division number and compatibility group letter, when required; placard any quantity. For Divisions 1.4, 1.5, and 1.6, enter compatibility group letter, when required; placard 454 kg (1,001 lbs.) or more.

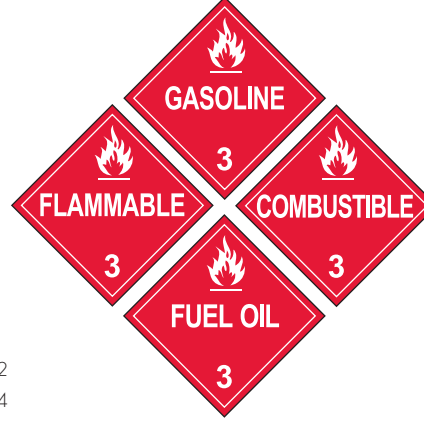
## CLASS 2 Gases



§172.528  
§172.530  
§172.532  
§172.540

For NON-FLAMMABLE GAS, OXYGEN (compressed gas or refrigerated liquid), and FLAMMABLE GAS, placard 454 kg (1,001 lbs.) or more gross weight. For POISON GAS (Division 2.3), placard any quantity.

## CLASS 3 Flammable Liquid and Combustible Liquid



§172.542  
§172.544

For FLAMMABLE placard 454 kg (1,001 lbs.) or more. GASOLINE may be used in place of FLAMMABLE placard displayed on a cargo tank or portable tank transporting gasoline by highway. Placard combustible liquid transported in bulk. See §172.504(f)(2) for use of FLAMMABLE placard in place of COMBUSTIBLE. FUEL OIL may be used in place of COMBUSTIBLE on a cargo or portable tank transporting fuel oil not classed as a flammable liquid by highway.

## CLASS 4 Flammable Solid, Spontaneously Combustible, and Dangerous When Wet



§172.546, §172.547, §172.548

For FLAMMABLE SOLID and SPONTANEOUSLY COMBUSTIBLE, placard 454 kg (1,001 lbs.) or more. For DANGEROUS WHEN WET (Division 4.3), placard any quantity.

## CLASS 5 Oxidizer & Organic Peroxide



§172.550, §172.552

For OXIDIZER and ORGANIC PEROXIDE (other than TYPE B, temperature controlled), placard 454 kg (1,001 lbs.) or more. For ORGANIC PEROXIDE (Division 5.2), Type B, temperature controlled, placard any quantity.

## CLASS 6 Poison (Toxic) and Poison Inhalation Hazard



§172.504(f)(10), §172.554, §172.555

For POISON (PGI or PGII, other than inhalation hazard) and POISON (PGIII), placard 454 kg (1,001 lbs.) or more. For POISON-INHALATION HAZARD (Division 6.1), inhalation hazard only, placard any quantity.

## CLASS 7 Radioactive



§172.556

Placard any quantity - packages bearing RADIOACTIVE YELLOW-III labels only. Certain low-specific-activity radioactive materials in "exclusive use" will not bear the label, but the radioactive placard is required for exclusive-use shipments of low-specific-activity material and surface-contaminated objects transported in accordance with §172.504(e) Table 1 and §173.427(a)(6).

## CLASS 8 Corrosive



§172.558

For CORROSIVE, placard 454 kg (1,001 lbs.) or more.

## CLASS 9 Miscellaneous



§172.560

Not required for domestic transportation. A bulk packaging containing a Class 9 material must be marked with the appropriate ID number displayed on a Class 9 placard, an orange panel, or a white square-on-point display.

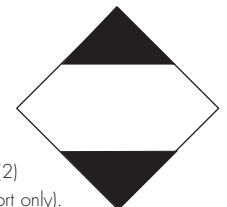
## Dangerous



§172.521

A freight container, unit-load device, transport vehicle, or rail car that contains non-bulk packages with two or more categories of hazardous materials that require different placards specified in Table 2 §172.504(e) may be placarded with DANGEROUS placards instead of the specific placards required for each of the materials in Table 2. However, when 1,000 kg (2,205 lbs.) or more of one category of material is loaded at one loading facility, the placard specified in Table 2 must be applied.

Limited Quantity Marking



§172.315(a)(2)  
(Vessel transport only).

Safety begins with communication!

# General Guidelines on Use of Warning Labels and Placards

## LABELS

See 49 CFR, Part 172, Subpart E, for complete labeling regulations.

- The Hazardous Materials Table [§ 172.101, Col. 6] identifies the proper label(s) for the hazardous material listed.
- Any person who offers a hazardous material for transportation **MUST** label the package, if required [§ 172.400(a)].
- Labels may be affixed to packages when not required by regulations, provided each label represents a hazard of the material contained in the package [§ 172.401].
- For labeling mixed or consolidated packages, see § 172.404.
- The appropriate hazard class or division number must be displayed in the lower corner of a primary and subsidiary hazard label [§ 172.402(b)].
- For classes 1,2,3,4,5,6, and 8, text indicating a hazard (e.g., "CORROSIVE") is **NOT** required on a primary or subsidiary label. The label must otherwise conform to Subpart E of Part 172 [§ 172.405].
- Labels must be printed on or affixed to the surface of the package near the proper shipping name marking [§ 172.406(a)].
- When primary and subsidiary labels are required, they must be displayed next to each other [§ 172.406(c)].
- For a package containing a Division 6.1, PG III material, the POISON label specified in § 172.430 may be modified to display the text PG III instead of POISON or TOXIC. Also see § 172.405(c).
- The ORGANIC PEROXIDE label [§ 172.427] indicates that organic peroxides are highly flammable. Use of the ORGANIC PEROXIDE label eliminates the need for a flammable liquid subsidiary label. The color of the border must be black and the color of the flame may be black or white.

## PLACARDS

See 49 CFR, Part 172, Subpart F, for complete placarding regulations.

- Each person who offers for transportation or transports any hazardous material subject to the Hazardous Materials Regulations must comply with all applicable requirements of Subpart F [§ 172.500].
- Placards may be displayed for a hazardous material, even when not required, if the placarding otherwise conforms to the requirements of Subpart F of Part 172 [§ 172.502(c)].
- For other than Class 7 or the DANGEROUS placard, text indicating a hazard (e.g., "FLAMMABLE") is not required. Text may be omitted from the OXYGEN placard only if the specific ID number is displayed on the placard [§ 172.519(b)(3)].
- For a placard corresponding to the primary or subsidiary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard [§ 172.519(b)(4)].
- Except as otherwise provided, any bulk packaging, freight container, unit load device, transport vehicle or rail car containing any quantity of material listed in Table 1 must be placarded [§ 172.504].
- When the aggregate gross weight of all hazardous materials in non-bulk packages covered in Table 2 is less than 454 kg (1,001 lbs.), no placard is required on a transport vehicle or freight container when transported by highway or rail [§ 172.504(c)].
- Notes: See § 172.504(f)(10) for placarding Division 6.1, PG III materials.
- Placarded loads require registration with USDOT. See § 107.601 for registration regulations.

## PLACARDING TABLES

[§ 172.504(e)]

TABLE 1

Category of material (Hazard Class or division number and additional description, as appropriate)	Placard name
1.1.....	EXPLOSIVES 1.1.....
1.2.....	EXPLOSIVES 1.2.....
1.3.....	EXPLOSIVES 1.3.....
2.3.....	POISON GAS.....
4.3.....	DANGEROUS WHEN WET.....
5.2 (Organic peroxide, Type B, liquid or solid, temperature controlled).....	ORGANIC PEROXIDE.....
6.1 (Materials poisonous by inhalation (see § 171.8)).....	POISON INHALATION HAZARD.....
7 (Radioactive Yellow III label only).....	RADIOACTIVE <sup>1</sup> .....

<sup>1</sup>RADIOACTIVE placard also required for exclusive-use shipments of low-specific-activity material and surface-contaminated objects transported in accordance with § 173.427(b)(4) and (5) or (c) of the subchapter.

TABLE 2

Category of material (Hazard Class or division number and additional description, as appropriate)	Placard name
1.4.....	EXPLOSIVES 1.4.....
1.5.....	EXPLOSIVES 1.5.....
1.6.....	EXPLOSIVES 1.6.....
2.1.....	FLAMMABLE GAS.....
2.2.....	NON-FLAMMABLE GAS.....
3.....	FLAMMABLE.....
Combustible Liquid.....	COMBUSTIBLE.....
4.1.....	FLAMMABLE SOLID.....
4.2.....	SPONTANEOUSLY COMBUSTIBLE.....
5.1.....	OXIDIZER.....
5.2 (Other than organic peroxide, Type B, liquid or solid, temperature controlled).....	ORGANIC PEROXIDE.....
6.1 (Other than materials poisonous by inhalation).....	POISON.....
6.2.....	(None).....
8.....	CORROSIVE.....
9.....	Class 9 (See § 172.504(f)(9)).....
ORM-D.....	(None).....

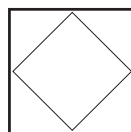
## IDENTIFICATION NUMBER DISPLAYS



§ 172.332

Appropriate placard must be used with orange panel.

IDENTIFICATION NUMBER MARKINGS ON ORANGE PANELS OR APPROPRIATE PLACARDS MUST BE DISPLAYED ON: (1) Tank Cars, Cargo Tanks, Portable Tanks, and other Bulk Packagings; (2) Transport vehicles or freight containers containing 4,000 kg (8,820 lbs.) in non-bulk packages of only a single hazardous material having the same proper shipping name and identification number loaded at one facility and transport vehicle contains no other material, hazardous or otherwise; and (3) transport vehicles or freight containers containing 1,000 kg (2,205 lbs.) of non-bulk packages of materials poisonous by inhalation in Hazard Zone A or B. See §§ 172.301(a)(3), 172.313(c), 172.326, 172.328, 172.330, and 172.331.



§ 172.527

Square white background required for placard for highway route-controlled quantity radioactive material and for rail shipment of certain explosives and poisons, and for flammable gas in a DOT 113 tank car [§ 172.507 and § 172.510].

**For additional information contact:**  
**The Hazardous Materials Info Center**  
**1-800-HMR-4922**  
 (1-800-467-4922)  
 E-mail: [infocntr@dot.gov](mailto:infocntr@dot.gov)  
<http://hazmat.dot.gov>

This Chart is available on line at the following link: <http://phmsa.dot.gov/hazmat>



**U.S. Department of Transportation**  
**Pipeline and Hazardous Materials Administration**



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