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RELEASE INSTRUCTIONS (RI)	DOCUMENT NO.:
	WHC-CM-2-14 PAGE 1 OF 1

TO: DEBRA A ISOM H6-08 0303	TITLE: Hazardous Material Packaging and Shipping RELEASE NO.: 13 DATE PREPARED: December 15, 1995
I have entered this release into the document per instructions. <i>Debra A. Isom</i> 12/15/95 Signature Date	If you have any questions about this release contact: T. W. Calihan Phone: 376-4629

INSTRUCTIONS

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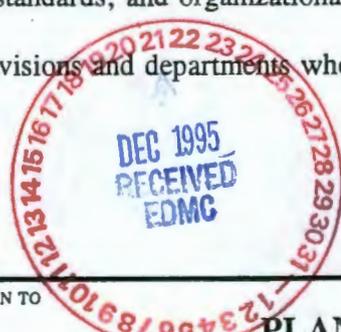
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	PAGES	REV	DATE	PAGES	REV	DATE
Table of Contents	1 of 1	12	11/16/95	1 of 1	13	12/29/95
PART III, Nonradioactive Hazardous Materials/Hazardous Waste (HM/HW) Shipments	1 - 14	3	4/30/93	1 - 14	4	12/29/95

IMPLEMENTATION NOTICE

(ROUTE A COPY OF THE IMPLEMENTATION NOTICE TO ALL USERS OF THIS COPY OF THE MANUAL)

Part III has been rewritten to account for the changes in 49 CFR governing Hazardous Materials Regulations. Part III has been reformatted to reflect the latest CM standards, and organizational changes have been updated.

The changes made to part III will impact all WHC divisions and departments who manage the shipping of non-radioactive hazardous material or hazardous waste.



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Table of Contents

<u>Number</u>	<u>Title</u>	<u>Rev.</u>	<u>Effective Date</u>
PART I	Introduction	2	05/15/92
PART II	Responsibilities and Procedures for all Hazardous Material Shipments CHANGE 1 (all)	4	04/30/93 12/16/94
PART III	Nonradioactive Hazardous Materials/ Hazardous Waste (HM/HW) Shipments	4	12/27/95
PART IV	Radioactive Material Shipments	3	04/30/93
PART V	Shipping and Receiving Hazardous Material in the 1100 Area	3	04/30/93
PART VI	Cargo Tanks/Cargo Tank Motor Vehicles	1	05/15/92
PART VII	Documentation and Record Keeping	0	04/30/93
PART VIII	Transportation Safety Training Requirements CHANGE 1 (all)	0	12/16/94 11/16/95
APPENDIXES			
A.	Course Outlines and Objectives	CANCELED 02/28/95	
B.	Shipment Examples	CANCELED 02/28/95	
C.	Radioactive Material Characterization	CANCELED 02/28/95	
D1.	Prenotification Requirements for Offsite Shipments of Spent Fuel and High Level Radioactive Waste	2	05/15/92
D2.	Prenotification Requirements for Offsite Shipments of Highway Route Controlled Quantities of Radioactive Materials	2	05/15/92
GLOSSARY		3	05/15/92
Keyword Index		0	11/16/95

1.0 INTRODUCTION

The U.S. Department of Transportation (DOT) regulates the interstate, *and certain intrastate* transportation of hazardous materials under the Hazardous Materials Transportation Act (HMTA) as implemented in 49 CFR, Parts 100-199. Washington is an agreement state and requires full compliance with DOT for intrastate transportation in the Title 446 Washington Administrative Code (WAC 446-50-080(1)). The regulations address all modes of transportation (air, rail, highway, waterway, and pipeline) and establish requirements for shipping papers, proper containers, marking and labeling of containers, placarding of vehicles, and incident reporting. These regulations apply to any material that may pose undue hazard in transportation including all hazardous materials and hazardous wastes including regulated samples sent for testing as defined in the 49 CFR and 40 CFR.

In the State of Washington, the Department of Ecology (Ecology) regulates hazardous wastes through WAC 173-303, (Dangerous Waste Regulations) through authority granted by the U.S. Environmental Protection Agency (EPA). Ecology further classifies hazardous wastes into dangerous waste (DW) and extremely hazardous waste (EHW) and defines conditions for their evaluation, handling, control, and disposal. The Westinghouse Hanford Company manuals WHC-CM-5-16, WHC-EP-0063, and WHC-CM-7-5, give additional information on hazardous wastes. The packaging, shipping, and handling of either hazardous materials or hazardous wastes in Washington State is regulated, as applicable, by the DOT, EPA, or Ecology, whichever is the most stringent.

1.1 Offsite Hazardous Materials/Hazardous Waste Shipments

For hazardous materials/hazardous waste (HM/HW) shipments departing from the Hanford site, Traffic Management (formerly Traffic Operations) in the 1100 Area of the Hanford Site reviews and approves the Hazardous Material Shipment Record (HMSR) or Uniform Hazardous Waste Manifest (UHWM) from the shipper and completes the final shipping papers or bills of lading for transportation offsite. They can also provide relief inspection coverage for Hazardous Materials Operations for direct offsite shipments. The shipper of record is responsible for supplying complete and accurate information on the HMSR or UHWM. The shipper must be trained and knowledgeable with 49 CFR, Parts 171-179 and 40 CFR and WAC for waste shipments. All offsite shipments must be in full compliance with federal, state and site requirements including Emergency Response information which includes a 24 hour phone number on the shipping paper.

1.2 Onsite Hazardous Material/Hazardous Waste Shipments

For onsite shipments of HM/HW, the same general procedures apply. The HMSR filled out by the shipper generally serves as the only documentation to accompany the shipment onsite. Onsite shipments of Hazardous Waste no longer require the use of the UHWM per revision of the WHC-CM-7-5 manual. Hanford Site and facilities S/RID's and DOE 460.1 with RL guidance requires that all onsite shipments of HM/HW comply with the DOT regulations, or at least be conducted with an equivalent degree of safety, or defensible safety basis as provided for in Section II of this manual. Deviation from DOT regulations requires a formal submittal into RL for review and approval. Waste shipments are also still subject to the transportation requirements as addressed in the RCRA permit under Section II.Q. and those found in Section 7 of the WHC-CM-7-5, *Environmental Compliance Manual*.

NOTE: Offsite and onsite radioactive material shipment information is discussed in Part IV of this manual.

2.0 PROCEDURE FOR MAKING NONRADIOACTIVE HAZARDOUS MATERIAL/ HAZARDOUS WASTE SHIPMENTS

This section describes in general terms the actions required to prepare (nonradioactive) hazardous material/waste for transport.

1. Define the material to be shipped by chemical, technical, or generic name. Determine or define hazardous properties. Determine quantity of material to be shipped (by weight, volume, or otherwise, as appropriate).
2. If material to be shipped is currently packaged, determine if packaging is in good condition and meets DOT regulations.
3. If material is a waste, determine if it is a dangerous waste in accordance with WAC 173-303. Solid Waste Acceptance Services can provide assistance in this area.
4. Consult the Hazardous Materials Table (HMT) in 49 CFR 172.101 and its Appendix and Figure 3-1 for the HMT format.
 - a. Determine if material is a reportable quantity of a hazardous substance (49 CFR 172.101, Appendix)
 - b. Determine if material is a Poison Inhalation Hazard (49 CFR 173.3a)
 - c. Establish proper shipping name (Column 2 of HMT).
 - d. Determine hazard class and/or division (Column 3 of HMT).
 - e. Determine identification number (Column 4 of HMT).
 - f. Determine Packing Group (Column 5 of HMT).
 - g. Determine Labeling requirements that apply to the shipment (Column 6 of HMT).
 - h. Determine special provisions applicable to the shipment (Column 7 of HMT).
 - i. See quantity and storage restrictions found in Columns 8a, 8b and 8c and Column 9 of HMT if shipment is by aircraft, railcar, or vessel. (When packaging requirements are specified, they are in addition to the standard requirements for all packagings prescribed in 49 CFR 173.24)
5. If material is a hazardous waste, submit a Waste Storage/Disposal Request to Waste Acceptance Services in accordance with current revision of WHC-EP-0063.
6. United States Code of Federal Regulations, Title 49 (49 CFR), Part 173, contains specific requirements for packaging hazardous materials or wastes identified in the

HMT. Examine these requirements closely since they specify specific types of packaging, loading requirements and restrictions, internal packaging, and markings specific to the commodity being shipped.

7. Select a container based on the following considerations:
 - a. The applicable determinations of items 1 through 6 above
 - b. Size, shape, weight, and volume of material to be shipped
 - c. Destination, mode of transport, and consignee's ability to handle receipt of the shipment (Air Carrier's may have different requirements for size and weight limits for sample shipments)
 - d. Availability of shipping containers.
8. If material is still in the original packaging or the waste was previously packaged, verify regulatory compliance to current regulations through inspection of the EPA and DOT markings and labeling on the container for both hazardous material and waste and review of the documentation describing the packaging of the waste. If the packaged material is not in compliance, it will have to be repackaged or overpacked.
9. If material is unpackaged or requires repackaging, obtain an acceptable container and inspect it. A quality assurance/quality control inspection may be required.
10. Load the container with authorized contents only, and assemble and seal the package in accordance with appropriate procedures. Packages must be marked and labeled in accordance with the regulations found in 49 CFR 172, Subparts D and E, respectively.
11. If shipment is to be made from a regulated (radiation control) area, a radiation survey is required to determine radiation and contamination information and to ensure the exterior surfaces are free of contamination. Westinghouse Hanford has a Hazardous Waste Radiation Release Protocol to provide guidance in this area in the HSRCM.
12. For offsite shipments, schedule shipment in advance with Hazardous Materials Operations and/or Traffic Management and Fleet Operations, Transportation, and Maintenance Services, where appropriate.
13. A hazardous material shipment needs a completed HMSR form in accordance with instructions found in section 3.0 that follows. The shipper retains the pink copy and sends the completed HMSR together with other pertinent papers or instructions with the shipment. A *Chemical Truck Manifest Direct Charge Store/Stock* (form BC-6000-299, Figure 3-2), or a *Store Stock Chemical-Cylinders* (form BC-6000-381, Figure 3-3) manifest for the shipment of gas cylinders can be utilized in place of the HMSR.
14. If the material is a hazardous waste, complete a UHWM in accordance with instructions found in paragraph 4.0 that follows. Send completed manifest together with other pertinent papers or instructions with the shipment. Also refer to WHC-CM-7-5, Sec.7.

15. Furnish appropriate placards (see 49 CFR 172, Subpart F) to the carrier, or if vehicle is equipped with permanent placards, ensure that placards are turned to the proper hazards.
16. Ensure that riggers or truck drivers are aware of any tiedown requirements to secure load. It is the packager/shipper's responsibility to inspect and approve securing of all loads to ensure tiedown requirements are met. Guidelines for tiedowns are found in 49 CFR 177.834(a). Drivers are also responsible for Emergency Response information requirements including checking the shipping papers for attached ERG guides, or copy of the ERG's in the cab, and 24 hour Emergency Contact Number.
17. Ensure, prior to loading, the transporting vehicle has no obvious defects and that its Class A, B, or equivalent preventive maintenance inspections are current. (GSA inspects more frequently than just an annual inspection. They will normally install a "B" sticker indicating date and mileage for next inspection.)

3.0 PREPARING A HAZARDOUS MATERIAL SHIPMENT RECORD

The following instructions are keyed to numbered blocks on the *Hazardous Material Shipment Record* (HMSR) (form 54-3000-596) shown in Figure 3-4.

3.1 Shipment Description Section Completed by Originator

1. Provide the complete address of the consignee and designate an individual to whom the shipment is being sent.
2. Identify originating facility. Originator signs and dates form, checking box indicating originating contractor.
3. Check appropriate boxes to indicate mode of transport and method of payment for offsite shipment. Provide complete cost code.
4. Describe material to be shipped and its packaging as required by column headings. It is essential that all data be provided for each hazardous material being shipped.
5. Indicate total number of shipping units and gross weight of shipment. Also identify placards required on the vehicle. See 49 CFR 172, Subpart F.
6. Identify property control, release to ship, or return order numbers, as applicable.
7. Answer questions here. Describe internal packaging if any, include type and size of inner containers and quantity of material contained in each.
8. Have the health physics technician (HPT) complete the radiation release. Space is available for the survey number, date, and signature of the HPT who is responsible for the survey.

3.2 Certification Section Completed by Certifier

1. The authorizing signature on the HMSR shall be that of a delegated employee (on Authorized Shippers list) who has successfully completed the DOT modules and either the "Advanced Hazardous Materials Training" (020067), "Advanced Waste Training" (020159), or "Advanced Radioactive Materials Training" (020069). Retraining is required every two years.
2. For offsite shipments made via aircraft, the appropriate boxes must be checked to indicate prescribed limitations are met.

3.3 Offsite Shipment Approval Section Completed by Traffic Management

Traffic Management assigns a bill of lading number, identifies the date shipped and routing, and approves release of shipment to the carrier. Retain a copy of the HMSR as required in Part VII, Table VII-1.

4.0 PREPARING A UNIFORM HAZARDOUS WASTE MANIFEST (UHWM)

The following instructions are keyed to numbered blocks on a specimen copy of the UHWM form used (Figure 3-5). Be sure to check that the authorized date in upper right hand corner is current. If outdated, EPA may authorize the continued use of the forms. The Federal register will publish this authorization allowing preparers of the UHWM to line out void expiration dates and write in the new extension date along with the preparer's initials in the upper right hand corner. For additional guidance in preparing this form, contact Generator and Waste Acceptance Services, Hazardous Materials Operations, or Traffic Management.

Approved continuation sheets are available from Waste Acceptance Services, if necessary.

Retain a copy of the UHWM as required in Part VII, Table VII-1.

Items A through K on the form are not required by federal regulations. However, states may require generators to complete some or all of the items as part of the state manifest reporting requirements. Generator and Waste Acceptance Services will notify the generator on a case-by-case basis if any of this data is required. For example, Box I requires WDOE Waste Codes (i.e., DOO1, WPO1).

4.1 Generator Section Completed by Originator

1. Enter the generator's EPA identification number. At the Hanford site, the identification number is WA 789 000 8967. Also enter a manifest document number assigned by Solid Waste Disposal.
2. Enter total number of pages used to complete the manifest (main page plus each approved continuation sheet).
3. Enter the name and address of the generator.
4. Enter the phone number of the generator.

5. Identify the first transporter company by name.
6. Enter transporter EPA identification number, WA 789 000 8967 if WHC, ICF KH, or BHI transportation is used.
7. Enter second transporter company name, if applicable.
8. Enter second transporter EPA identification number, if applicable.
9. Identify the company and site address of the facility designated to receive the waste. The address must be the site delivery location not the company mailing address.
10. Enter the EPA number for the designated receiving facility.
11. Enter the DOT description, which includes the proper shipping name, hazard class and/or division, identification number (United Nations (UN) or North American (NA) as applicable) and packing group (in this order) for each waste as identified in 49 CFR 172. If a hazardous substance, place a reportable quantity (RQ) in the HM box and also identify the constituents making the material a hazardous substance. Any not otherwise specified (N.O.S.) entry must identify the constituent that makes it hazardous. If dangerous when wet, place words "Dangerous When Wet" in box in association with proper shipping name. If toxic by inhalation place words "Poison-Inhalation Hazard" in box in association with the basic description.
12. Enter the number and type of containers for each waste using appropriate abbreviations from the listing below.

TYPE OF CONTAINERS

DM = Metal drums, barrels, kegs
DW = Wooden drums, barrels, kegs
DF = Fiberboard or plastic drums, barrels, kegs
TP = Tanks, portable
TT = Cargo tanks (tank trucks)
TC = Tank cars
DT = Dump trucks
CY = Cylinders
CM = Metal boxes, cartons, cases
CF = Fiber or plastic boxes, cartons, cases
CW = Wooden boxes, cartons, cases
BA = Burlap, cloth, paper or plastic bags

13. Enter the total quantity of waste described on each line.
14. Enter the appropriate abbreviation from the listing below to indicate the unit of measure. The preferred unit of measure is K for kilograms. Washington State requires net weight to be entered.

UNIT OF MEASURE

G = Gallons (liquid only)	L = Liters (liquids only)
P = Pounds	K = Kilograms
T = Tons (2,000 lb)	M = Metric tons (1,000 kg)
Y = Cubic yard	N = Cubic meters

15. Generators may use this space to indicate special transportation, treatment, storage, or disposal information, etc. Emergency Response Information such as ERG or MSDS is required including a 24-hr. phone number (509) 373-3800.
16. The generator must read, sign (by hand), and date the certification statement. The authorizing signature shall be that of a delegated individual who is on the authorized shippers list and who has successfully completed the "Basic DOT Hazardous Materials Regulations Course along with DOT Hazardous Waste Certification course. (See Section VIII) The words "On behalf of RL" should immediately follow the authorizing signature. This is a result of RL delegating authority to WHC to sign the generators certification statement on the manifest.

4.2 Transporters Section Completed by Transporter

1. Enter (print or type) the name of the person accepting the waste described on the manifest by signing and entering date of receipt.
2. Same as item 1 but for the second transporter, if applicable.

4.3 Facility Section Completed by Treatment, Storage, Disposal Facility

1. Receiving facility must note any significant discrepancies between the wastes described on the manifest and the waste actually received at the facility.
2. The name of the person accepting the waste on behalf of the receiving facility must be entered (printed or typed). The person must acknowledge acceptance of waste described on the manifest by signing and entering the date of receipt.

5.0 DESIGNATED REVIEWING ORGANIZATIONS

Organizations listed below are responsible for this process. If you have any questions about this procedure, please contact the process owner.

Designated Reviewing Organizations

Environmental Training
Hazardous Materials Operations (process owner)
QTRC

CMPOC

PSO/ES
PSS/TP
TRP/TRS

6.0 REFERENCES

DOE-RL Guidance Letter 95-SWT-186, *Cancellation of RLID 5480.3, and RL 5480.1, Change 1, Chapter III*. Dated 3-29-95.

DOE 460.1 *Transportation and Packaging Safety*

DOE 460.2 *Departmental Materials Transportation and Packaging Management*

Title 40, Code of Federal Regulations, *Protection of Environment*, Chapter I, Subchapter I, Part 261, "Identification and Listing of Hazardous Waste."

Title 49, Code of Federal Regulations, *Transportation*, Parts 100-199.

WAC Chapter 173-303, *Dangerous Waste Regulations*.

Hanford Facility RCRA Permit

WHC-CM-7-5, *Environmental Compliance*.

WHC-EP-0063, *Hanford Site Solid Waste Acceptance Criteria*.

Nonradioactive Hazardous Materials/Hazardous Waste
(HM/HW) Shipments

Figure 3-1. Hazardous Material Table Format.

§172.101 HAZARDOUS MATERIALS TABLE--Continued.

Symbols (1)	Hazardous materials descriptions and proper shipping names (2)	Hazard class or Division (3)	Identification Numbers (4)	Packing group (5)	Label(s) required (if not excepted) (6)	Special provisions (7)	(8) Packaging authorizations (§173.000)			(9) Quality limitations		(10) Vessel storage requirements	
							Ex-ceptions (8A)	Nonbulk pack-aging (8B)	Bulk pack-aging (8C)	Passenger aircraft or railcar (9A)	Cargo aircraft only (9B)	Vessel storage (10A)	Other storage provisions (10B)
—	Phosphorus oxybromide, molten. —	8	UN2578	II	CORROSIVE	B2, B8, N41, N43, T8, T27.	None	202	242	Forbidden.	Forbidden.	C —	40
+ —	Phosphorus oxychloride —	8	UN1810	II	CORROSIVE, POISON.	2, A7, B9, B14, B32, B74, B77, N34, T38, T43, T45.	None	227	244	Forbidden.	30 L —	C —	8, 40
—	Phosphorus pentabromide —	8	UN2691	II	CORROSIVE	A7, N34 —	154	202	240	Forbidden.	50 kg —	B —	12, 40, 48
—	Phosphorus pentachloride —	8	UN1806	II	CORROSIVE	A7, N34 —	None	202	240	Forbidden.	50 kg —	C —	40
—	Phosphorus pentafluoride —	8	UN2196		POISON GAS.	1 —	None	302	None	Forbidden.	Forbidden.	D —	40
—	Phosphorus pentasulfide, free from yellow or white phosphorus.	4.3	UN1340	II	DANGEROUS WHEN WET.	A20, B59 —	None	212	242	15 kg —	50 kg —	B —	74
—	Phosphorus pentoxide —	8	UN1807	II	CORROSIVE	A7, N34 —	154	212	240	15 kg —	50 kg —	A —	10
—	Phosphorus sesquioxide, free from yellow or white phosphorus	4.1	UN1341	II	FLAMMABLE SOLID.	A20, N34 —	None	212	240	15 kg —	50 kg —	B —	74
—	Phosphorus tribromide —	8	UN1808	II	CORROSIVE	A3, A6, A7, B2, B25, N34, N43, T8.	None	202	242	Forbidden.	30 L —	C —	8, 40
+ —	Phosphorus trichloride —	8	UN1809	II	CORROSIVE, POISON.	2, A3, A7, B9, B14, B15, B32, B74, B77, N34, T38, T43, T45.	None	227	244	Forbidden.	30 L —	C —	8, 40
—	Phosphorus trioxide —	8	UN2578	III	CORROSIVE	—	154	213	241	25 kg —	100 kg —	A —	12, 48
—	Phosphorus trisulfide, free from yellow or white phosphorus	4.1	UN1343	II	CORROSIVE FLAMMABLE SOLID	A20, N34 —	None	212	240	15 kg —	50 kg —	B —	74

9613389.1303

Nonradioactive Hazardous Materials/Hazardous Waste
(HM/HW) Shipments

Figure 3-2. Chemical Truck Manifest-Direct Charge/Store Stock.
(form BC-6000-299) (sheet 1 of 2)

CHEMICAL TRUCK MANIFEST
DIRECT CHARGE/STORE STOCK

No. of Units	Store Stock or P. O. No.	DOT Proper Shipping Name	Hazard Class/Packing Group	ID No.	Total Wt. of Units	Labeled	Deliver To: Name/Area/Bldg./Rm.			
*This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation, 49CFR 172.204 (a)(1). *			Shipper		Date	Carrier		Date		
			Authorized Signature				Authorized Signature			
			Placard(s) Required _____						N/A _____	

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IN CASE OF EMERGENCY DIAL 911 AND PATROL OPERATIONS CENTER 373-3800

Figure 3-2. Chemical Truck Manifest-Direct Charge/Store Stock.
(form BC-6000-299R) (sheet 2 of 2)

INSTRUCTIONS FOR PREPARATION OF TRUCK MANIFEST

GENERAL

The truck manifest is a document on which all hazardous material is identified, and contains the information required by 49 CFR 172.202, 172.204, and 172.204. A copy of the manifest must accompany each shipment of material from the point of pick-up to the destination.

PREPARATION

Number of Units	The total number of units covered by one description.
Store Stock or P.O.#	List the store stock or purchase order number, as appropriate.
DOT Proper Shipping Name	Proper Shipping Name as it appears in Column 2 of 49CFR 172.101.
Hazard Class	The Hazard Class from column 3. For materials meeting more than one hazard class, the additional class may be entered after the primary hazard class in the description. (The hazard class need not be repeated if the proper shipping name contains the words of the hazard class, e.g., Flammable liquids, N.O.S.).
Identification #	The identification number for the material (preceded by "UN" or "NA," as appropriate).
Packing Group	Except for Cylinders, Bulk Pkgs., or Radioactive packages, a packing group of I, II, or III should be entered as per 49 CFR 172.101 designation in Column 5.
Weight of Units	The total quantity of the material covered by one description. Abbreviations such as "lbs." " " for pounds and "gal." for gallons are authorized.
Labeled	The label or labels required to be displayed on a package are listed in Column 6 of 49 CFR 172.101. If the work NONE is shown, no label is required.
Deliver To	The individual's name and address who will ultimately receive the material.
Shipper/Carrier	Each person who offers a hazardous material for transportation shall certify that the material is offered in accordance with 49CFR requirements by printing (manually or mechanically) on the shipping paper the certification contained in paragraph (a) (1) 49CFR 172.204.

9613389.1306

Figure 3-3. Store Stock Chemicals-Cylinders.
(form BC-6000-381)

STORE STOCK CHEMICALS - CYLINDERS						
No. of Units	Store Stock No.	DOT Proper Shipping Name	Hazard Class	ID No.	Weight of Units	Label Requirements
		Acetylene, Dissolved	2.1	UN1001		Flammable Gas
	21-1200-050	Air, Compressed	2.2	UN1002		Nonflammable Gas
	21-1275-050	Argon (Pure Grade), Compressed	2.2	UN1006		Nonflammable Gas
	21-1300-100	Argon, Compressed	2.2	UN1006		Nonflammable Gas
	21-1325-120	Compressed Gases Nos. (98% AR, 4% 112)	2.2	UN1954		Flammable Gas
	21-1325-115	Compressed Gases Flammable Nos. (92% AR, 8% H2)	2.1	UN1954		Flammable Gas
	21-1350-140	Argon, Refrigerated Liquid	2.2	UN1951		Nonflammable Gas
	21-1360-150	Compressed Gases Nos. (90% AR, 10% CH4)	2.2	UN1956		Nonflammable Gas
	21-1365-100	Compressed Gases Flammable Nos. (95% AR, 5% H2)	2.1	UN1954		Flammable Gas
	21-1600-120	Carbon Dioxide	2.2	UN1013		Nonflammable Gas
	21-1600-130	Carbon Dioxide (W/Syp)	2.2	UN1013		Nonflammable Gas
	21-1600-150	Carbon Dioxide (Coleman)	2.2	UN1013		Nonflammable Gas
	21-2200-100	Dichlorodifluoromethane (No. 12)	2.2	UN1028		Nonflammable
	21-2200-130	Chlorodifluoromethane (No. 22)	2.2	UN1018		Nonflammable Gas
	21-2500-050	Helium (Ultra Pure), Compressed	2.2	UN1046		Nonflammable Gas
	21-2500-125	Helium (Ultra High Pure), Compressed	2.2	UN1046		Nonflammable Gas
	21-2820-100	Hydrogen, Compressed	2.1	UN1049		Flammable Gas
	21-2870-100	Hydrogen, (Ultra Pure), Compressed	2.1	UN1049		Flammable Gas
	21-3200-100	Methane, Compressed	2.1	UN1971		Flammable Gas
	21-3440-180	Nitrogen, Compressed	2.2	UN1066		Nonflammable Gas
	21-3440-220	Nitrogen, (Ultra Pure), Compressed	2.2	UN1066		Nonflammable Gas
	21-3500-100	Oxygen, Compressed	2.2	UN1072		Oxidizer
	21-3700-600	Propane	2.1	UN1978		Flammable Gas
	21-3500-200	Oxygen (Medical, Size D), Compressed	2.2	UN1072		Oxygen
	21-3500-300	Oxygen (Medical, Size K), Compressed	2.2	UN1072		Oxygen
<p>"THIS IS TO CERTIFY THAT THE ABOVE NAMED MATERIALS ARE PROPERLY CLASSIFIED DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION."</p>						
Shipper's Signature			Date	Carrier's Signature		Date
*Placard requirements for this load are _____						
PLACARD ALL FOUR SIDES OF VEHICLE						
IN CASE OF EMERGENCY DIAL 911 AND PATROL OPERATIONS CENTER 373-3800						
BC-8000-381 (10/93)						

Figure 3-4. Hazardous Material Shipment Record (HMSR). (form 54-3000-596)

SHIPPING INFO		HAZARDOUS MATERIAL SHIPMENT RECORD (HMSR)									
Company 1		Originating Facility	Originator Signature 2	Date							
Address		Building	FROM: <input type="checkbox"/> WHC <input type="checkbox"/> ELM <input type="checkbox"/> FNL <input type="checkbox"/> OTHER								
City, State, Zip		OFFSITE ONLY: SHIP: <input type="checkbox"/> PREPAID <input type="checkbox"/> COLLECT									
Attention:		VIA: <input type="checkbox"/> Parcel Post <input type="checkbox"/> Air Parcel Post <input type="checkbox"/> Freight (Rail/Truck)									
		<input type="checkbox"/> Air (Passenger) <input type="checkbox"/> Air (Cargo) <input type="checkbox"/> Other									
CONTAINERS / PACKAGING						CONTENT DESCRIPTION					
Number of Containers	Type	DOT Spec	Packer Dimensions	Quantity Pkg	Gross Wt Each Pkg	See 49 CFR 172.101(a) Hazardous Material Table					
3.1 Shipment Description Section						Proper Ship Name: Hazard Class, Packing Group UN/NA No.: List Secondary Hazards: List Labels Req'd/Applied					
						Proper Ship Name: Hazard Class, Packing Group UN/NA No.: List Secondary Hazards: List Labels Req'd/Applied					
						Proper Ship Name: Hazard Class, Packing Group UN/NA No.: List Secondary Hazards: List Labels Req'd/Applied					
Total No. Containers		Gross Wt of Shipment		Identity Plates Required:		Identity Plates by Container or Pallet Count, if applicable 6					
5		4		1. _____ 3. _____ 2. _____ 4. _____							
Material in manufacturer's original container: <input type="checkbox"/> Yes <input type="checkbox"/> No				Describe Internal Packaging:							
Container free of deterioration or damage: <input type="checkbox"/> Yes <input type="checkbox"/> No 7											
Container accessibility documented: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Material is packaged, sealed, marked and labeled to meet DOT requirements <input type="checkbox"/> Yes <input type="checkbox"/> No											
RAI/CATION RELEASE	Summary No	Date 8	RAI Signature	Print Name							
3.2 CERTIFICATION SECTION											
CONTRACTORS CERTIFICATION	This is to certify that the above named material has properly classified, identified, packaged, marked and labeled and is in proper condition for transport according to the regulatory requirements of the Department of Transportation					This shipment is within the Limited quantities provided for: <input type="checkbox"/> Passenger Aircraft <input type="checkbox"/> Cargo Aircraft <input type="checkbox"/> Yes					
	Authorizing Signature 1		Print Name 2			Date:					
3.3 FOR OFFSITE SHIPMENTS - ADDITIONAL APPROVAL REQUIRED											
WHC	TRAFFIC	S.L. No.	Date Shipped	ETA	Routing	Special Considerations					
WHC Traffic: 1		WHC Shipping:									

9613389-1308

Figure 3-5. Uniform Hazardous Waste Manifest.
(EPA-Form 8700-22)

Please print or type. (Form designed for use on 8 1/2 x 11 inch typewriter.) Form Approved. OMB No. 2050-0030 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address			A. State Manifest Document Number			
4. Generator's Phone ()			B. State Generator's ID			
5. Transporter 1 Company Name		6. US EPA ID Number		C. State Transporter's ID		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone		
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone		
GENERATOR	11. US DOT Description (including Proper Shipping Name, Hazard Class and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
	a.					
	b.					
	c.					
	d.					
J. Additional Descriptions for Materials Listed Above			K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information						
<p>16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.</p> <p>If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.</p>						
Printed/Typed Name			Signature		Month Day Year	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials					
	Printed/Typed Name			Signature		Month Day Year
	18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name			Signature		Month Day Year	

Form 8700-22 (REV. 9-88) LABORATORY AN AMERICAN LABORATORY CO., CHICAGO, IL 60648 (800) 621-5403

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.



ORIGINAL - RETURN TO GENERATOR