

HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM

HMIRS Data Definitions and Codes

Prepared for:

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

The Hazardous Materials Incident Report Subsystem (HMIRS) of the Pipeline and Hazardous Materials Safety Administration (PHMSA) Hazardous Materials Information System was established in 1971 to fulfill the requirements of the Federal hazardous materials transportation law. Part 171 of Title 49, Code of Federal Regulations (49 CFR) contains the incident reporting requirements of carriers of hazardous materials. An unintentional release of hazardous materials meeting the criteria set forth in Section 171.16, 49 CFR, must be reported on DOT Form 5800.1. The data from the reports received are subsequently entered in the HAZMAT database. Summary statistics from this data are compiled for several DOT publications including the Secretary's Biennial Report on Hazardous Materials Transportation to Congress.

Each incident report is reviewed and edited to ensure data integrity. All reports involving fatalities or injuries are analyzed and contact is made with the reporting carrier to ensure the accuracy of the information on the HMIRS.

Since 1971 the HMIRS has undergone several modifications. Additional fields and code entries have been added to enhance the usefulness of the data. Significant modifications are noted in the applicable sections of this manual.

The HMIRS is maintained in an Oracle 9i database which is housed at the Volpe National Transportation Systems Center. As of the end of 2004 there were approximately 390,000 records in the system. RSPA encourages the use of the HMIRS as part of its mission to promote the safe transportation of hazardous materials. Interested parties may request information from the HMIRS through RSPA. Government agencies may make arrangements to access the system directly.

HMIRS data files from 1993 to the present are available on the Office of Hazmat Safety Website which is located at the following address:

<http://hazmat.dot.gov>

For incident years 1993 – 2004 each year's data is available in three dBase files; HAZMAT, HAZCON and HAZRMK. Summary statistics reports for these years are also available on this Website.

On January 1st 2005, the Incident Report, 5800.1, form changed, and so did the way the data was stored. From incident year 2005 to the present the data is available in ten dBase files. Summary statistics reports, when an incident year is finalized, will be available on this Website.

Incident Years 1993 – 2004

Primary Databases

HAZMAT

The HAZMAT table contains data from Form DOT F 5800.1 (Rev, 6/89) Hazardous Materials Incident Report, which is filed by carriers whenever there is an unintentional release of a hazardous material.

TOTAL RECORD LENGTH FOR HAZMAT DATABASE – 912

<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>DESCRIPTION</u>
	REPORT_NUMBER	RPTNO	Text	10	10-digit code that contains the year, month and sequence the incident report was received. Uniquely identifies each report.
	MULTIPLE_CODE	MTPL	Text	1	Alphabetical code that appears to the right of the report number describing the type of incident.
1	MODE_OF_TRANSPORT	MODE	Integer	3	Describes the mode of transportation in which the incident occurred. Taken from Section I, #1.
1	MODE_OTHER_DESC	MODEO	Text	16	Description of the other transportation mode. Taken from Section I, #1.
2	DATE_OF_INCIDENT	IDATE	Date	10	Date the incident occurred. Taken from Section I, #2.
2	TIME_OF_INCIDENT	ITIME	Time Span	5	Time the incident occurred. Taken from Section I, #2.
3	INCIDENT_CITY	ICITY	Text	25	City in which the incident occurred. Taken from Section I, #3.
3	INCIDENT_COUNTY	ICOUN	Text	22	County in which the incident occurred. Taken from Section I, #3.
3	INCIDENT_STATE	IST	Text	2	State in which the incident occurred. Taken from Section I, #3.
3	INCIDENT_ROUTE	IROUT	Text	30	Street location on which the incident occurred. Taken from Section I, #3.
4	CARRIER_ID	CARID	Text	9	9-digit code used to identify the carrier.
4	CARRIER_NAME	CARRI	Text	30	Name of the company responsible for transport of the product. Taken from Section II, #4.
5	CARRIER_ADDRESS	CARAD	Text	30	Street address of the carrier. Taken from Section II, #5.
5	CARRIER_CITY	CACIT	Text	25	City the carrier resides in. Taken from Section II, #5.
5	CARRIER_STATE	CARST	Text	2	State the carrier resides in. Taken from Section II, #5.
5	CARRIER_ZIP	CAZIP	Text	9	Zip code of the carrier location. Taken from Section II, #5.
6	CARRIER_REPORTING_NUMBER	CRPNO	Text	12	Modal carrier identifier number or code. Taken from Section II, #6.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
7	SHIPPER_ID	SHPID	Text	9	9-digit code used to identify the shipper.
7	SHIPPER_NAME	SHIPR	Text	30	Name of the company shipping a product. Taken from Section III, #7.
7	SHIPPER_ADDRESS	SHPAD	Text	30	Street address of the shipper. Taken from Section III, #7.
7	SHIPPER_CITY	SHCIT	Text	25	City the shipper resides in. Taken from Section III, #7.
7	SHIPPER_STATE	SHPST	Text	2	State the shipper resides in. Taken from Section III, #7.
7	SHIPPER_ZIP	SHZIP	Text	9	Zip code of the shipper's location. Taken from Section III, #7.
8	CONSIGNEE_ID	CONID	Text	9	9-digit code used to identify the consignee.
8	CONSIGNEE_NAME	CONSI	Text	30	Name of the company product is to be delivered to. Taken from Section III, #8.
8	CONSIGNEE_ADDRESS	CONAD	Text	30	Street address of the consignee. Taken from Section III, #8.
8	CONSIGNEE_CITY	COCIT	Text	25	City the consignee resides in. Taken from Section III, #8.
8	CONSIGNEE_STATE	CONST	Text	2	State the consignee resides in. Taken from Section III, #8.
8	CONSIGNEE_ZIP	COZIP	Text	9	Zip code of the consignee location. Taken from Section III, #8.
	ORIGIN_SAME_AS_SHIPPER	ORSHIP	Logical	1	Identifies if the origin location of delivery is the same as the shipper location.
9	ORIGIN_ADDRESS	ORIAD	Text	30	Street address where the shipment of the hazardous material originated. Taken from Section III, #9.
9	ORIGIN_CITY	OCITY	Text	25	City where shipment of the hazardous material originated. Taken from Section III, #9.
9	ORIGIN_STATE	OST	Text	2	State where shipment of the hazardous material originated. Taken from Section III, #9.
9	ORIGIN_ZIP	OZIP	Text	9	Zip code of state where shipment of the hazardous materials originated. Taken from Section III, #9.
	DESTINATION_SAME_AS_CONSIGNEE	DECON	Logical	1	Identifies if the destination location of the shipment of the hazardous materials is the same as the consignee location.
10	DESTINATION_ADDRESS	DESAD	Text	30	Street address where shipment of the hazardous materials is destined. Taken from Section III, #10.
10	DESTINATION_CITY	DCITY	Text	25	City where shipment of the hazardous materials is destined. Taken from Section III, #10.
10	DESTINATION_STATE	DST	Text	2	State where shipment of the hazardous materials is destined. Taken from Section III, #10.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
10	DESTINATION_ZIP	DZIP	Text	9	Zip code of state where shipment of the hazardous materials is destined. Taken from Section III, #10.
11	SHIPPING_PAPER	SHPNO	Text	16	Identification number of papers used to identify shipment of hazardous materials being transported. Taken from Section III, #11.
12	COMMODITY_CODE	CMCD	Text	5	5-digit office generated code used to identify and standardize the commodity being shipped.
12	COMMODITY SHIPPING_NAME	COMOD	Text	25	Name of the product being transported. Taken from Section IV, #12.
13	COMMODITY_TRADE_NAME	TRADE	Text	20	Commonly used name of the product being transported. Taken from Section IV, #13.
14	COMMODITY_CLASS	CMCL	Text	2	2-digit code to identify the hazard class of the product being transported. Taken from Section IV, #14.
15	UN_NUMBER	UNNUM	Text	6	United Nations identification number of the product being transported. Taken from Section IV, #15.
16	HAZARDOUS SUBSTANCE	HAZSUB	Logical	1	Identifies whether the material being transported is listed as a hazardous substance. Taken from Section IV, #16.
17	RQ_MET	RQMET	Logical	1	Identifies whether the reportable quantity of the material being transported was met. Taken from Section IV, #17.
18	QUANTITY_RELEASED	RQUAN	Real	9	Amount of material released. Taken from Section V, #18.
18	QUANTITY_RELEASED_CODE	RCODE	Integer	1	Code that indicates that the quantity was provided by the report preparer.
18	UNITS_OF_QUANTITY_RELEASED	RUNIT	Text	3	Units (gal./lbs./cfts.) of the amount of transported material released. Taken from Section V, #18.
19	DEATHS	DEAD	Integer	3	Number of deaths that occurred due to the hazardous material released during transportation. Taken from Section V, #19.
20	MAJOR_INJURIES	MJINJ	Integer	3	Number of serious injuries that occurred due to the hazardous materials released during transportation. Taken from Section V, #20.
21	MINOR_INJURIES	MNINJ	Integer	3	Number of minor injuries that occurred due to the hazardous materials released during transportation. Taken from Section V, #21.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
22	NUMBER_EVACUATED	NEVAC	Integer	6	Number of people evacuated from an area because of the hazardous materials released during transportation. Taken from Section V, #22.
23A	PRODUCT_LOSS	PLDAM	Integer	8	Dollar value of the product lost. Taken from Section V, #23A.
23A	PRODUCT_LOSS_CODE	PLDCD	Text	1	A code that indicates that the dollar value was provided by the report preparer.
23B	CARRIER_DAMAGE	CADAM	Integer	8	Dollar value of the damage sustained by the carrier. Taken from Section V, #23B.
23B	CARRIER_DAMAGE_CODE	CADCD	Text	1	A code that indicates that the dollar value was provided by the report preparer.
23C	PUB_PRI_DAMAGE	PPDAM	Integer	8	Dollar value of the damage sustained to public or private property. Taken from Section V, #23C.
23C	PUB_PRI_DAMAGE_CODE	PPDCD	Text	1	Code that indicates that the dollar value of damage to public or private property was provided by the report preparer.
23D	DECON_DAMAGE	DCDAM	Integer	8	Dollar value of the cleanup effort or decontaminating the area involved in the product spillage. Taken from Section V, #23D.
23D	DECON_DAMAGE_CODE	DCDCD	Text	1	Code that indicates that the dollar value of the cleanup effort or decontaminating the area involved in the incident was provided by the report preparer.
23E	OTHER_DAMAGE	OTDAM	Integer	8	Dollar value of the damage or efforts not already mentioned in the incident. Taken from Section V, #23E.
23E	OTHER_DAMAGE_CODE	OTDCD	Text	1	Code that indicates that the dollar value of OTHER_DAMAGE was provided by the report preparer.
	REPORT_DAMAGE	RPDAM	Integer	8	Total dollar value of fields 23A thru 23E of the report.
	REPORT_DAMAGE_CODE	RPDCD	Text	1	Code that indicates that the report total was provided by the report preparer.
	INCIDENT_DAMAGE	DAMAG	Integer	8	Total damage value for an incident. (Not in use.)
	DAMAGE_CODE	DAMCD	Text	1	Code that indicates that the total dollar value was provided by the report preparer.
24#1	RESULT_VAPOR	VAPOR	Logical	1	Identifies whether vapor being released was a consequence of the incident.
24#2	RESULT_SEWER	SEWER	Logical	1	Identifies whether the commodity entering a waterway or sewer system was a consequence of the incident.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
24#3	RESULT_SPILL	SPILL	Logical	1	Identifies whether the commodity released as a consequence of the incident.
24#4	RESULT_FIRE	FIRE	Logical	1	Identifies whether a fire occurred as a consequence of the incident.
24#5	RESULT_EXPLO	EXPLO	Logical	1	Identifies whether an explosion occurred as a consequence of the incident.
24#6	RESULT_ENVIR	ENVIR	Logical	1	Identifies whether environmental damage occurred as a consequence of the incident.
24#7	RESULT_NONE	RNONE	Logical	1	Identifies if there were no consequences of the incident.
24#8	RESULT_OTHER	ROTH	Logical	1	Identifies whether there were other consequences of the incident. See RESULT_OTHER_DESC.
24#8	RESULT_OTHER_DESC	ROTHD	Text	16	Description of the other consequences of the incident.
25#1	VEHICLE_CARGO	CARGO	Logical	1	Identifies that a cargo tank was the vehicle involved in the incident.
25#2	VEHICLE_VAN	VANTR	Logical	1	Identifies that either a van, truck, or trailer was the vehicle involved in the incident.
25#3	VEHICLE_FLAT	FLATT	Logical	1	Identifies that a flatbed truck or trailer was the vehicle involved in the incident.
25#4	VEHICLE_TANK_CAR	TCAR	Logical	1	Identifies that a tank car was the vehicle involved in the incident.
25#5	VEHICLE_RAIL_CAR	RCAR	Logical	1	Identifies that a rail car was the vehicle involved in the incident.
25#6	VEHICLE_TOFC	TOFC	Logical	1	Identifies that a trailer or container on a flat car was the vehicle involved in the incident.
25#7	VEHICLE_AIRCRAFT	PLANE	Logical	1	Identifies that an aircraft was the vehicle involved in the incident.
25#8	VEHICLE_BARGE	BARGE	Logical	1	Identifies that a barge was the vehicle that was involved in the incident.
25#9	VEHICLE_SHIP	SHIP	Logical	1	Identifies that a ship was the vehicle that was involved in the incident.
25#10	VEHICLE_OTHER	VOTH	Logical	1	Identifies that an unlisted vehicle type was involved in the incident.
25#10	VEHICLE_OTHER_DESC	VOTHD	Text	16	Description of other types of vehicles involved in the incident.
26	TRANSPORTATION_PHASE	PHASE	Integer	3	Transportation phase when the incident occurred.
27	LAND_USE	LUSE	Integer	3	Type of land use where the incident occurred.
28	COMMUNITY_TYPE	CTYPE	Integer	3	Type of community where the incident occurred.
29	ACCIDENT_OR_DERAIL	ACCDR	Logical	1	Identifies if the incident occurred because of a vehicle accident or derailment.
29A	ESTIMATED_SPEED	SPEED	Integer	3	Speed of vehicle when the incident occurred.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
29B	HIGHWAY_TYPE	HTYPE	Integer	3	Type of highway where the incident occurred.
29C	HIGHWAY_LANES	LANES	Integer	1	Number of lanes on the highway where the incident occurred.
	GENERAL_CAUSE	CAUSE	Integer	3	Code that states whether the incident was caused by human error, vehicle accident, package failure or another reason.
	MISCELLANEOUS_I NFO_1	MISC1	Integer	3	Code that states important factors concerning the incident.
	MISCELLANEOUS_I NFO_2	MISC2	Integer	3	Code that states important factors concerning the incident.
	ATTACHMENTS	ATTACH	Logical	1	Identifies whether there are attachments received with the original form.
	RECOMMENDATIO NS	RECOM	Logical	1	Identifies whether comments are given in Section IX of the incident form suggesting recommendations.
46	REPORTER_NAME	RNAME	Text	25	Name of incident report preparer.
48	REPORTERS_TITLE	RTITL	Text	25	Title of incident report preparer.
49	REPORTER_PHONE	PHONE	Text	12	Phone number of the incident report preparer.
50	REPORT_DATE	RDATE	Date	10	Date the incident report was filled out.
	INTEGER_OF_ID	INTID	Integer	10	System generated number that is used to match the same report in the HAZCON table.

Data Base Links

Data Base	Column	Type
HAZCON	INTID	One to Many
HAZRMK	RPTNO	One to Many

HAZCON

The HAZCON table contains inner and outer container information from DOT F 5800.1, Hazardous Materials Incident Report, when an inner container and an outer container are involved.

TOTAL RECORD LENGTH FOR HAZCON DATABASE – 307

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	REPORT_NUMBER	RPTNO	Text	10	10-digit code that contains the year, month and sequence the incident report was received. Uniquely identifies each report.
	MULTIPLE_CODE	MTPL	Text	1	Alphabetical code that appears to the right of the report number describing the number of reports for an incident.
	CONTAINER_SEQUENCE	SEQ	Integer	1	Sequential ordering from the inner to outermost container.
30	TYPE_OF_CONTAINER	CTYPE	Text	8	Packaging name.
31	CAPACITY_CONTAINER	CCAP	Real	9	Indicates the size of the package.
31	CAPACITY_CONTAINER_CODE	CAPCD	Text	1	Code that indicates that the capacity value was provided by the report preparer.
31	CAPACITY_UNITS	CUNIT	Text	3	Identifies the capacity units (gals./lbs./cfts.) of the container.
32	NUMBER_FAILED	NFAIL	Integer	5	Number of packages releasing material in the incident.
32A	NUMBER_FAILED_CODE	NFLCD	Text	1	Code that indicates that the figure was provided by the preparer of the report.
33	NUMBER_IN_SHIPMENT	NSHIP	Integer	5	Number of packages being transported.
33A	NUMBER_IN_SHIPMENT_CODE	NSPCD	Text	1	Code that indicates that the number being transported was provided by the report preparer.
35	GAUGE_OF_CONTAINER	GAUGE	Text	12	Identifies package markings or other information.
36	MANUFACTURERS_ID	MFGID	Text	9	9-digit code used to standardize and identify the container manufacturer's name.
36	MANUFACTURERS_NAME	MANUF	Text	30	Name of the company that manufactures the packaging as taken from Section VII, #36.
36	MANUFACTURERS_CITY	MCITY	Text	25	City the manufacturer resides as taken from Section VII, #35.
36	MANUFACTURERS_STATE	MST	Text	2	State the manufacturer resides as taken from Section VII, #35.
37	TANK_SERIAL_NUMBER	TKID	Text	10	Gives the packaging serial number.
38	LABEL_OR_PLACARD	LRP	Text	7	Color-coded sign that states the class of the product dependent upon the size of the package.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
39	REGISTRATION_NO	RNUM	Text	6	Registration code assigned to a container if it has been reconditioned or requalified.
39B	INSPECTION_DATE	INSP	Date	10	Last date the package was inspected.
40	EXEMPTION_NO	ENUM	Text	10	Number that states whether a company is exempt from a particular regulation.
41A	VEHICLE_COLLISION	VCOLL	Logical	1	Identifies whether a vehicle collision occurred.
41B	VEHICLE_OVERTURN	VOVER	Logical	1	Identifies whether a vehicle overturned or derailed.
41C	OVERLOAD_OVERFILL	OLOAD	Logical	1	Identifies whether a container was overfilled.
41D	LOOSE_FITTING	LOOSE	Logical	1	Identifies whether loss of product occurred because of a loose fitting or closure.
41E	DEFECTIVE_FITTING	DEFCT	Logical	1	Identifies whether loss of product occurred due to a defective fitting.
41F	DROPPED	DROPD	Logical	1	Indicates the package involved has been dropped causing product loss.
41G	STRUCK_RAMMED	STRCK	Logical	1	Indicates the package involved has been struck causing product loss.
41H	IMPROPER_LOADING	ILOAD	Logical	1	Indicates the package has been loaded incorrectly, i.e. heavy packages on top.
41I	IMPROPER_BLOCKING	BLOCK	Logical	1	Indicates the package has been blocked incorrectly, i.e. package has not been tied down.
41J	CORROSION	CORRO	Logical	1	Indicates package has corroded causing product loss.
41K	METAL_FATIGUE	FATIG	Logical	1	Indicates the packaging has weakened due to overuse or defects in the manufacture of the package.
41L	FRICTION RUBBING	FRICT	Logical	1	Indicates that the package failed due to contact with its surroundings.
41M	FIRE_HEAT	FIRE	Logical	1	Indicates that fire or heat caused defects in the packaging allowing product loss.
41N	FREEZING	FREEZ	Logical	1	Indicates that freezing cold or ice contributed to product loss.
41O	VENTING	VENT	Logical	1	Indicates product was released through closures because of pressure.
41P	VANDALISM	VANDL	Logical	1	Indicates product was released from packaging because of vandalism.
41Q	INCOMPATIBLE_MATERIAL	INCOM	Logical	1	Indicates two materials should not be in contact with one another.
41R	CONTRIBUTING_OTHER	COTH	Logical	1	Indicates there was another reason contributing to package failure. See CONTRIBUTING_OTHER_DESC.
41R	CONTRIBUTING_OTHER_DESC	COTHD	Text	16	Explanation as to what contributed to the package failure.
42A	OTHER_FREIGHT	FRGHT	Logical	1	Indicates whether another form of freight was responsible for package failure.
42B	FORKLIFT	FLIFT	Logical	1	Indicates whether a forklift was responsible for the package failure.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
42C	NAIL_PROTRUSION	NAIL	Logical	1	Indicates whether a nail or another type of protrusion is responsible for package failure.
42D	OTHER_VEHICLE	VEHCL	Logical	1	Indicates whether another vehicle is responsible for package failure.
42E	WATER	WATER	Logical	1	Indicates whether water is responsible for package failure.
42F	GROUND_FLOOR_ROADWAY	FLOOR	Logical	1	Indicates whether package failure was due to contact with ground, floor, or roadway.
42G	ROADSIDE_OBSACLE	OBSTC	Logical	1	Indicates whether a roadside obstacle was the reason for the package failure.
42H	NO_OBJECT	NONE	Logical	1	Identifies that no object caused the package failure.
42I	OBJECT_OTHER	OOOTH	Logical	1	Identifies that another object caused the package failure. See OBJECT_OTHER_DESC.
42I	OBJECT_OTHER_DESC	OOOTH	Logical	16	Explanation as to what object caused the package failure.
43A	PUNCTURED	PUNCT	Logical	1	Indicates that a puncture caused the package failure.
43B	CRACKED	CRACK	Logical	1	Indicates that a crack caused the package failure.
43C	BURST_INTERNAL_PRESSURE	BURST	Logical	1	Indicates that internal pressure caused the package failure.
43D	RIPPED	RIPPD	Logical	1	Indicates that a rip caused package failure.
43E	CRUSHED	CRUSH	Logical	1	Indicates the package failed because the package was crushed.
43F	RUBBED_ABRADED	ABRAD	Logical	1	Indicates the package failed because the package was rubbed or abraded.
43G	RUPTURED	RUPTD	Logical	1	Indicates that the package failed because it ruptured.
43H	HOW_FAILED_OTHER	HOTH	Logical	1	Identifies another cause for the package failure. See HOW_FAILED_OTHER_DESC.
43H	HOW_FAILED_OTHER_DESC	HOTH	Text	16	Explanation as to how the package failed.
44A	END_FORWARD	FORWD	Logical	1	Identifies whether the front of the package failed.
44B	END_REAR	REAR	Logical	1	Identifies whether the back of the package failed.
44C	SIDE_RIGHT	RIGHT	Logical	1	Identifies whether the right side of the package failed.
44D	SIDE_LEFT	LEFT	Logical	1	Identifies whether the left side of the package failed.
44E	TOP	TOP	Logical	1	Identifies whether the top of the package failed.
44F	BOTTOM	BOTTM	Logical	1	Identifies whether the bottom of the package failed.
44G	CENTER	CENT	Logical	1	Identifies whether the center of the package failed.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
44H	AREA_OTHER	AOTH	Logical	1	Identifies that there was another area on the package that failed. See AREA_OTHER_DESCRIPTION.
44H	AREA_OTHER_DESC	AOTHD	Text	16	Explanation of where the package failed.
45A	PACKAGE_MATERIAL	MATRL	Logical	1	Identifies that the package material failed.
45B	FITTING_VALVE	VALVE	Logical	1	Identifies that a fitting or valve on the package failed.
45C	CLOSURE	CLOSE	Logical	1	Identifies whether the closure on the package failed.
45D	CHIME	CHIME	Logical	1	Identifies whether a chime on the package failed.
45E	WELD_SEAM	WELD	Logical	1	Identifies whether a seam or weld on the package failed.
45F	HOSE_PIPING	HOSE	Logical	1	Identifies that a hose or piping on the package failed.
45G	INNER_LINING	INLIN	Logical	1	Identifies whether the inner lining on the package failed.
45H	WHAT_FAILED_OTHER	WOTH	Logical	1	Indicates there was something else that failed on the package. See WHAT_FAILED_OTHER_DESC.
45H	WHAT_FAILED_OTHER_DESC	WOTHD	Text	16	Explanation of the area that failed on the package.
	INTEGER_OF_ID	INTID	Integer	10	Number that is used to match the same report in other datasets.

Data Base Links

Data Base	Column	Type
HAZMAT	INTID	Many to One
HAZRMK	RPTNO	One to Many

HAZRMK

The HAZRMK table contains information from the Remarks section of DOT F 5800.1 Hazardous Materials Incident Report. Reports received prior to 1990 had the information from the remarks section entered when the following conditions existed:

- a. A death or injury occurred.
- b. Over \$50,000 in property damage was incurred.
- c. People were evacuated.
4. The material was a hazardous waste, etiologic agent, or radioactive material.
- e. Conditions existed in which the remarks helped to clarify the report.

Reports received, beginning January 1, 1990, have all information from the remarks section entered.

TOTAL RECORD LENGTH FOR HAZRMK DATABASE – 88

ATTRIBUTE NAME	ABBREV	TYPE	LENGTH	DESCRIPTION
REPORT_NUMBER	RPTNO	Text	10	10-digit code that contains the year, month and sequence the incident report was received. Uniquely identifies each report.
SEQUENCE_NUMBER	SEQ	Integer	3	Sequential number used to sort the remarks in the proper order.
REMARKS	REM	Text	75	Comments taken from the incident report that are written by the report preparer.

Data Base Links

Data Base	Column	Type
HAZMAT	RPTNO	Many to One
HAZCON	RPTNO	Many to One

Incident Years 2005 - Present

Primary Databases

IREPORT

The IREPORT table contains data from Form DOT F 5800.1 (01-2004) Hazardous Materials Incident Report, which is filed whenever there is an unintentional release of a hazardous material.

TOTAL RECORD LENGTH FOR IREPORT DATABASE – 1204

<u>LOC</u>	<u>ATTRIBUTE</u>	<u>ABBREV</u>	<u>TYPE</u>	<u>LENGTH</u>	<u>DESCRIPTION</u>
	INCIDENT_REPO RT_ID	RPT_ID	Integer	10	System generated integer that uniquely identifies each report.
	CURRENT_DATA_SOURCE	DATA_SRC	Text	5	System generated code that defines how the report was received.
1	REPORT_TYPE	RPT_TYPE	Text	1	Type of report being filed. Taken from Section I, #1.
	REPORT_NUMBER	RPTNO	Text	10	10-digit code that contains the year, month and sequence the incident report was received.
3	INCIDENT_DATE	IDATE	Date	10	Date the incident occurred.
4	INCIDENT_TIME	ITIME	Text	5	Time the incident occurred.
5	NRC_REPORT_NUMBER	NRC_NUM	Integer	10	If this incident was reported to the National Response Center (NRC), this is the report number NRC assigned to the incident.
6	AGENCY_CD	AGENCY	Text	80	If this incident was reported to another Federal DOT agency, the agency code is entered here:
6	FEDERAL_DOT_REPORT_NUMBER	DOT_RNUM	Text	12	If this incident was reported to another Federal DOT agency, the report number is entered here.
7	INCIDENT_CITY	I_CITY	Text	40	City in which the incident occurred.
7	INCIDENT_COUNTY	I_COUNTY	Text	25	County in which the incident occurred.
7	INCIDENT_STATE	I_STATE	Text	2	State in which the incident occurred.
7	INCIDENT_POSTAL_CODE	I_ZIP	Text	10	Postal code in which the incident occurred.
7	INCIDENT_NON_US_STATE	N_US_IST	Text	20	If the incident occurred outside the US the foreign state that the incident occurred.
7	INCIDENT_COUNTRY	I_CNTRY	Text	25	Country in which the incident occurred.
7	INCIDENT_ROUTE	I_ROUTE	Text	30	Street location on which the incident occurred
8	MODE_OF_TRANSPORT	I_MODE	Integer	1	Describes the mode of transportation in which the incident occurred.
9	TRANSPORT_PHASE	T_PHASE	Integer	3	Transportation phase when the incident occurred.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
10	CARRIER_NM	C_NAME	Text	80	Name of the company responsible for transport of the product.
10	CARRIER_STREET	C_STREET	Text	40	Street address of the carrier.
10	CARRIER_CITY	C_CITY	Text	40	City the carrier resides in.
10	CARRIER_STATE	C_STATE	Text	2	State the carrier resides in.
10	CARRIER_POSTAL_CODE	C_ZIP	Text	10	Postal code the carrier location.
10	CARRIER_NON_US_STATE	N_US_CST	Text	20	If carrier resides outside the US the foreign state that the carrier resides in.
10	CARRIER_COUNTRY	C_CNTRY	Text	25	Country the carrier resides in.
10	CARRIER_FEDERAL_DOT_ID	C_DOT_ID	Text	12	Modal carrier identifier number or code.
10	CARRIER_HAZMAT_REG_ID	C_REG_ID	Text	14	The Hazardous Materials Registration number of the carrier.
30#1	SPILLAGE_IND	R_SPILL	Text	1	Identifies whether the commodity released as a consequence of the incident.
30#2	FIRE_IND	R_FIRE	Text	1	Identifies whether a fire occurred as a consequence of the incident.
30#3	EXPLOSION_IND	R_EXPLO	Text	1	Identifies whether an explosion occurred as a consequence of the incident.
30#4	WATER_SEWER_IND	R_SEWER	Text	1	Identifies whether the commodity entering a waterway or sewer system was a consequence of the incident.
30#5	GAS_DISPERSION_IND	R_VAPOR	Text	1	Identifies whether gas dispersion was a consequence of the incident.
30#6	ENVIRONMENT_DAMAGE_IND	R_ENVIR	Text	1	Identifies whether environmental damage occurred as a consequence of the incident.
30#7	NO_RELEASE_IND	R_NO_REL	Text	1	Identifies if there was no release of material for this incident.
31	FIRE_EMS_RESPONSE_IND	F_E_IND	Text	1	If a fire crew or EMS unit responded to the incident.
31	FIRE_EMS_RESPONSE_NBR	F_E_NBR	Text	16	If a fire crew or EMS unit responded to the incident, include the report number.
31	POLICE_RESPONSE_IND	POL_IND	Text	1	If a police unit responded to the incident.
31	POLICE_RESPONSE_NBR	POL_NBR	Text	16	If a police unit responded to the incident, include the report number.
31	IN_HOUSE_CLEANUP_IND	CU_HOUSE	Text	1	In-house cleanup occurred for this incident.
31	OTHER_CLEANUP_IND	CU_OTHER	Text	1	Other cleanup occurred for this incident.
32	DAMAGE_MORE_THAN_500	DMG_500	Text	1	Estimated damages exceed \$500.
32	MATERIAL_LOSS	M_LOSS	Integer	8	Dollar value of the material lost
32	CARRIER_DAMAGE	C_DAMAG	Integer	8	Dollar value of the damage sustained by the carrier

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
32	PROPERTY_DAMAGE	P_DAMAG	Integer	8	Dollar value of the damage sustained to public or private property.
32	RESPONSE_COST	RSP_COST	Integer	8	Dollar value of the response cost.
32	REMEDIATION_CLEANUP_COST	REM_COST	Integer	8	Dollar value of the remediation cost.
33a	HAZMAT_FATALITY_IND	HZ_FATAL	Text	1	A person was fatally injured by contact with the hazardous material or its vapors or by a fire or explosion that resulted from the hazardous material.
33a	HAZMAT_FATALITY_EMP_NBR	HZ_F_EMP	Integer	3	Number of employees fatally injured due to the hazardous material.
33a	HAZMAT_FATALITY_RESP_NBR	HZ_F_RSP	Integer	3	Number of emergency responders fatally injured due to the hazardous material.
33a	HAZMAT_FATALITY_GEN_NBR	HZ_F_GEN	Integer	3	Number of the general public fatally injured due to the hazardous material.
33b	NONHAZ_FATALITY_IND	NH_FATAL	Text	1	A person was fatally injured but it was not caused by contact with the hazardous material or its vapors or by a fire or explosion that resulted from the hazardous material.
33b	NONHAZ_FATALITY_NBR	NH_F_NBR	Integer	3	Number of people fatally injured due to causes other than the hazardous material.
34	HAZMAT_PERS_INJURY_IND	HZ_INJ	Text	1	A person was injured by contact with the hazardous material or its vapors or by a fire or explosion that resulted from the hazardous material.
34	HAZMAT_HOSP_EMP_NBR	HZ_H_EMP	Integer	3	Number of employees hospitalized, admitted to a medical facility, due to the hazardous material.
34	HAZMAT_HOSP_RESP_NBR	HZ_H_RSP	Integer	3	Number of emergency responders hospitalized, admitted to a medical facility, due to the hazardous material.
34	HAZMAT_HOSP_GEN_NBR	HZ_H_GEN	Integer	3	Number of the general public hospitalized, admitted to a medical facility, due to the hazardous material.
34	HAZMAT_NONHOSP_EMP_NBR	HZ_N_EMP	Integer	3	Number of employees injured, but not hospitalized, due to the hazardous material.
34	HAZMAT_NONHOSP_RESP_NBR	HZ_N_RSP	Integer	3	Number of emergency responders injured, but not hospitalized, due to the hazardous material.
34	HAZMAT_NONHOSP_GEN_NBR	HZ_N_GEN	Integer	3	Number of the general public injured, but not hospitalized, due to the hazardous material.
35	EVACUATION_IND	EVACUATE	Text	1	The incident required the evacuation or removal of persons from a specific area because of possible or actual contact with the hazardous materials involved in the incident
35	EVACUATION_PUBLIC_NBR	EVAC_PUB	Integer	5	Number of the general public that were evacuated.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
35	EVACUATION_EMPLOYEE_NBR	EVAC_EMP	Integer	5	Number of employees that were evacuated.
35	TOTAL_EVACUATED_NBR	EVAC_TOT	Integer	5	Total number of people that were evacuated.
35	TOTAL_EVACUATION_HRS	EVAC_HRS	Integer	5	The duration, to the nearest hour, of the evacuation.
36	MAJOR_ARTERY_CLOSED_IND	MA_CLSD	Text	1	A road or transportation facility was closed due to the incident.
36	MAJOR_ARTERY_CLOSED_HRS	MA_HRS	Integer	3	The duration, to the nearest hour, the road or transportation facility was closed.
37	MAT_INVOLVED_IN_ACCIDENT_IND	ACCIDENT	Text	1	The hazardous material was involved in a crash or derailment.
37	ESTIMATED_SPEED	SPEED	Integer	3	The estimated speed at the time of the crash.
37	WEATHER_CONDITIONS	WEATHER	Text	16	The weather conditions at the time of the crash.
37	VEHICLE_OVERTURN_IND	V_OVER	Text	1	Identifies whether a vehicle overturned.
37	VEHICLE_LEFT_ROADWAY_TRACK_IND	V_ROAD	Text	1	Identifies whether a left the roadway or track.
38	PASSENGER_AIRCRAFT_IND	A_PASS	Text	1	Indicates whether the shipment in question was on a commercial passenger aircraft.
38	CARGO_PASSENGERBAGGAGE_IND	A_PASS_C	Text	1	Indicates if the material was tendered (accepted for shipment) as cargo, or was located in a passenger's baggage, either in the cabin or baggage compartment on a commercial passenger aircraft.
39	INCIDENT_OCCURRENCE_CD	A_OCCUR	Text	40	Indicates where in the course of transportation the incident occurred or was discovered.
40#1	SHIPPHASE_NOT_TRANSPORTED_IND	A_N_TRAN	Text	1	Shipment had not been transported
40#2	SHIPPHASE_AIR_FIRSTFLIGHT_IND	A_AIR_F	Text	1	Shipment had been transported by air (first flight).
40#3	SHIPPHASE_AIR_SUBFLIGHT_IND	A_AIR_A	Text	1	Shipment had been transported by air (subsequent flights).
40#4	SHIPPHASE_INITIALTRANSPORT_IND	A_INIT	Text	1	Shipment had been transported by highway to the cargo facility.
40#5	SHIPPHASE_TRANSFER_IND	A_SORT	Text	1	Shipment had been transferred at a sort center/cargo facility.
Part VIII	CONTACT_NM	POC_NAME	Text	50	Name of the incident report preparer.
Part VIII	CONTACT_TITLE	POC_TITL	Text	50	Title of the incident report preparer.
Part VIII	CONTACT_BUSINESS_NM	POC_COMP	Text	80	Business Name of where incident report preparer works.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
Part VIII	CONTACT_HAZ MAT_REG_ID	POC_REG	Text	14	The Hazardous Materials Registration number of the business, which the incident report preparer works.
Part VIII	CONTACT_STRE ET	POC_STR	Text	40	The street address of the business, which the incident report preparer works.
Part VIII	CONTACT_CITY	POC_CITY	Text	40	The city of the business, which the incident report preparer works.
Part VIII	CONTACT_STAT E	POC_ST	Text	2	The state of the business, which the incident report preparer works.
Part VIII	CONTACT_POST AL_CODE	POC_ZIP	Text	10	The postal code of the business, which the incident report preparer works.
Part VIII	CONTACT_NON_ US_STATE	N_US_PST	Text	20	If the business is outside the US, the foreign state of the business, that the incident report preparer, resides.
Part VIII	CONTACT_COU NTRY	POCCNTRY	Text	25	The country of the business, which the incident report preparer works.
Part VIII	CONTACT_DATE _PREPARED	POC_DATE	Date	10	Date the incident report was filled out.
Part VIII	CONTACT_PHO NE	POC_PHNE	Text	25	Phone number of the incident report preparer.
Part VIII	CONTACT_FAX	POC_FAX	Text	25	FAX number of the incident report preparer.
Part VIII	PREPARER_IND	POC_TYPE	Text	10	Function of preparers business; carrier, shipper, facility owner/operator of the incident report preparer.
Part VIII	PREPARER_OTH ER	POC_OTH	Text	50	If the function of preparers business is "Other:" it is described here.

Data Base Links

Data Base	Column	Type
IEVENT	RPT_ID	One to Many
IACTION	RPT_ID	One to Many
SHIPPER	RPT_ID	One to Many

IEVENT

TOTAL RECORD LENGTH FOR IEVENT DATABASE – 265

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	INCIDENT_REPORT_ID	RPT_ID	Integer	10	System generated integer that uniquely identifies each report.
	EVENT_SEQUENCE_NUMBER	EVNT_SEQ	Integer	5	System generated integer that sequentially numbers the “Description of Events and Packaging Failure,” Part VI.
Part VI	EVENT_DESCRIPTION	EVNT_DESC	Text	250	The text entered in the “Description of Events and Packaging Failure,” Part VI.

Data Base Links

Data Base	Column	Type
IREPORT	RPT_ID	Many to One

IACTION

TOTAL RECORD LENGTH FOR IACTION DATABASE – 265

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	INCIDENT_REPORT_ID	RPT_ID	Integer	10	System generated integer that uniquely identifies each report.
	ACTION_SEQUENCE_NUMBER	ACTN_SEQ	Integer	5	System generated integer that sequentially numbers the "Recommendations/Actions Taken to Prevent Future Incidents," Part VII.
Part VII	ACTION_DESCRIPTION	ACTN_DESC	Text	250	The text entered in the "Recommendations/Actions Taken to Prevent Future Incidents," Part VI.

Data Base Links

Data Base	Column	Type
IREPORT	RPT_ID	Many to One

SHIPPER

TOTAL RECORD LENGTH FOR SHIPPER DATABASE – 418

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	SHIPPER_ID	SHPR_ID	Integer	10	System generated integer that uniquely identifies each shipper record.
	INCIDENT_REPORT_ID	RPT_ID	Integer	10	System generated integer that uniquely identifies each report.
11	SHIPPER_NM	S_NAME	Text	80	Name of the company shipping a product.
11	SHIPPER_STREET	S_STREET	Text	40	Street address of the shipper.
11	SHIPPER_CITY	S_CITY	Text	40	City that the shipper resides in.
11	SHIPPER_STATE	S_STATE	Text	2	State that the shipper resides in.
11	SHIPPER_POSTAL_CODE	S_ZIP	Text	10	Postal code that the shipper resides in.
11	SHIPPER_NON_US_STATE	N_US_SST	Text	20	If shipper resides outside the US the foreign state that the shipper resides in.
11	SHIPPER_COUNTRY	S_CNTRY	Text	25	Country that the shipper resides in.
11	SHIPPER_WAYBILL	S_WAYBIL	Text	30	Identification number of papers used to identify shipment of hazardous materials being transported.
11	SHIPPER_HAZMAT_REG_ID	S_REG_ID	Text	14	The Hazardous Materials Registration number of the shipper.
12	ORIGIN_STREET	O_STREET	Text	40	Street address where the shipment of the hazardous material originated.
12	ORIGIN_CITY	O_CITY	Text	40	City where shipment of the hazardous material originated.
12	ORIGIN_STATE	O_STATE	Text	2	State where shipment of the hazardous material originated.
12	ORIGIN_POSTAL_CODE	O_ZIP	Text	10	Postal code of state where shipment of the hazardous materials originated
12	ORIGIN_NON_US_STATE	N_US_OST	Text	20	If the shipment originated outside the US, the foreign state that the shipment originated.
12	ORIGIN_COUNTRY	O_CNTRY	Text	25	Country that the shipment originated.

Data Base Links

Data Base	Column	Type
IREPORT	RPT_ID	Many to One
MATERIAL	SHPR_ID	One to Many

MATERIAL

TOTAL RECORD LENGTH FOR MATERIAL DATABASE – 387

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	MATERIAL_ID	MAT_ID	Integer	10	System generated integer that uniquely identifies each material record.
	SHIPPER_ID	SHPR_ID	Integer	10	System generated integer that uniquely identifies each shipper record.
14	PROPER_SHIPPING_NAME	MATERIAL	Text	250	Proper shipping name of the product being transported.
17	UN_NUMBER	UN_NBR	Text	6	United Nations identification number of the product being transported.
16	HAZARD_CLASS	HAZ_CLS	Text	2	2-digit code to identify the hazard class of the product being transported.
15	TECH_TRADE_NAME	TRADE_NM	Text	20	Commonly used name of the product being transported.
18	HAZMAT_PACKING_GROUP	PKG_GRP	Text	3	The packing group of the product being transported.
19	QTY_RELEASED_REPORTED	QR_REP	Number	20,6	Amount of material, reported by the preparer, released.
19	UOM_CD_REPORTED	QR_R_UOM	Text	3	Code that indicates the “Units of Measure” of the released quantity reported preparer.
	QTY_RELEASED	QR_ACT	Number	20,6	Amount of material, converted into standardized units, released.
	UOM_CD	QR_A_UOM	Text	3	Code that indicates the “Units of Measure” of the standardized units.
20	HAZMAT_WASTE_IND	HZ_WASTE	Text	1	Identifies whether the material being transported is listed as a hazardous waste.
20	HAZMAT_WASTE_EPA_NBR	EPA_NBR	Integer	20	EPA Manifest Number of the hazardous waste.
21	TIH_IND	TIH_IND	Text	1	Indicates whether the material being transported is listed as a Toxic by Inhalation material.
21	TIH_HAZARD_ZONE	TIH_ZONE	Text	1	Hazard zone for the Toxic by Inhalation material.
22	MAT_SHIPMENT_APPROVED_IND	APP_IND	Text	1	Indicates if the material was shipped under an exemption, an approval, or a Competent Authority Certificate.
22	MAT_SHIPMENT_APPROVED_NBR	APP_NBR	Text	15	The exemption, approval, or a Competent Authority Certificate identification number.
23	UNDECLARED_HAZMAT_SHIPMENT_IND	UNDECLAR	Text	1	Indicates that this is an undeclared hazardous materials shipment.

Data Base Links

Data Base	Column	Type
SHIPER	SHPR_ID	Many to One
PACKAGE	MAT_ID	One to Many

PACKAGE

TOTAL RECORD LENGTH FOR IACTION DATABASE – 375

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	PACKAGE_ID	PKG_ID	Integer	10	System generated integer that uniquely identifies each Package record.
	MATERIAL_ID	MAT_ID	Integer	10	System generated integer that uniquely identifies each material record.
13	DESTINATION_STREET	D_STREET	Text	40	Street address where the shipment of the hazardous material was destined.
13	DESTINATION_CITY	D_CITY	Text	40	City where shipment of the hazardous material was destined.
13	DESTINATION_STATE	D_STATE	Text	2	State where shipment of the hazardous material was destined.
13	DESTINATION_POSTAL_CODE	D_ZIP	Text	10	Postal code of state where shipment of the hazardous materials was destined
13	DESTINATION_NON_US_STATE	N_US_DST	Text	20	If the shipment was destined outside the US, the foreign state that the shipment was destined.
13	DESTINATION_COUNTRY	D_CNTRY	Text	25	Country that the shipment was destined.
24	PACKAGE_TYPE_CD	PKG_TYPE	Text	1	Indicates the package type.
24	PACKAGE_TYPE_DESCR	PKG_DESC	Text	16	If the package type indicated is "Other" it is described here.
26a	IDENTIFICATION_MARKINGS	ID_MARKS	Text	40	Indicates the packaging identification markings.
	CONTAINER_TYPE_CD	CNT_T_CD	Text	8	This is an 8 digit code that indicates the package name derived from the packaging identification markings (26a) or the packaging type (26b).
29	PACKAGE_RADIOACTIVE_CAT	RAM_CAT	Text	1	Indicates the Radioactive Packaging category.
29	PACKAGE_RADIOACTIVE_CERT_IND	RAM_CERT	Text	1	Indicates the certification of the radioactive package.
29	PACKAGE_RADIOACTIVE_CERT_NBR	RAM_NBR	Text	30	Indicates the Radioactive Certificate Number that the package is shipped under.
29	RADIOACTIVE_NUCLIDE_PRESENT	RAM_NUC	Text	80	Indicates the Radioactive Nuclide(s) present in the package.
29	RADIOACTIVE_TRANSPORT_INDEX	RAM_TI	Text	2	Indicates the transport index of the Radioactive materials present in the package.
29	RADIOACTIVE_UOM	RAM_UOM	Text	3	Units of measure for the transport index, for the Radioactive materials present in the package.
29	ACTIVITY_REPORTED	AT_REP	Number	14,6	Indicates the activity of the Radioactive materials present in the package.

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
29	ACTIVITY_UOM_REPORTED	AT_R_UOM	Text	3	Units of measure for the activity, for the Radioactive materials present in the package.
	ACTIVITY	AT_ACT	Number	14,6	The activity of the Radioactive materials present in the package, converted into standardized units.
	ACTIVITY_UOM	AC_A_UOM	Text	3	Code that indicates the “Units of Measure” of the standardized units for the activity of the Radioactive materials present in the package.
29	RADIOACTIVE_MAT_SAFETY_INDEX	RAM_SI	Text	2	Indicates the Critical Safety Index of the Radioactive materials present in the package.

Data Base Links

Data Base	Column	Type
MATERIAL	MAT_ID	Many to One
PKGLAYER	PHG_ID	One to Many
PKGFAIL	PHG_ID	One to Many

PKGLAYER

TOTAL RECORD LENGTH FOR IACTION DATABASE – 265

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	PACKAGE_LAYER_ID	PKG_L_ID	Integer	10	System generated integer that uniquely identifies each Package Layer record.
	PACKAGE_ID	PKG_ID	Integer	10	System generated integer that uniquely identifies each Package record.
	PACKAGE_LAYER	PKG_LYR	Text	1	Code indicating what package layer this record pertains to.
26b	PACKAGING_TYPE	PKGL_TYP	Text	25	Package type for the non-bulk, IBC, or non-specification package.
26b	MATERIAL_TYPE	MATL_TYP	Text	50	Material type for the non-bulk, IBC, or non-specification package.
26b	HEAD_TYPE_IND	HEAD_IND	Text	1	Head type for the non-bulk, IBC, or non-specification package.
	PACKAGE_TYPE_OTHER	PKG_T_O	Text	40	Not currently in use.
	PACKAGE_OTHER_DETAILS	PKG_T_OD	Text	80	Not currently in use.
27	PACKAGE_CAPACITY_REPORTED	CAP_REP	Number	15,6	The package capacity that was reported by the preparer.
27	CAPACITY_UOM_REPORTED	CAP_R_UOM	Text	36	The “Units of Measure” for the package capacity as reported by the preparer.
	PACKAGE_CAPACITY	CAP_ACT	Number	15,6	The package capacity, converted into standardized units.
	CAPACITY_UOM	CAP_A_UOM	Text	3	Code that indicates the “Units of Measure” of the standardized package capacity.
27	PACKAGE_AMOUNT_REPORTED	AMT_REP	Number	15,6	The amount of material, which was reported by the preparer, in the package.
27	AMOUNT_UOM_REPORTED	AMT_R_UOM	Text	3	The “Units of Measure” for the amount of material, as reported by the preparer.
	PACKAGE_AMOUNT	AMT_ACT	Number	15,6	The amount of material, converted into standardized units, in the package.
	AMOUNT_UOM	AMT_A_UOM	Text	3	Code that indicates the “Units of Measure” of the standardized amount of material in the package.
27	SHIPPED_NUMBER	N_SHIP	Integer	4	Number of packages being transported.
27	SHIPPED_NUMBER_FAILED	N_FAILED	Integer	4	Number of packages releasing material in the incident.
28	PACKAGE_MANUFACTURER	P_MFG_NM	Text	80	Name of the company that manufactures the packaging.
28	PACKAGE_MANUFACTURE_DATE	P_MFG_DT	Date	10	Date that the package was manufactured.
28	PACKAGE_SERIAL_NUMBER	P_SERIAL	Text	16	The package serial number.

28	PACKAGE_LAST_TEST_DATE	P_LT_DT	Date	10	Date that the bulk package was last tested or inspected.
28	MATERIAL_OF_CONSTRUCTION	MAT_CON	Text	30	Material that the bulk package is constructed.
28	MATERIAL_OF_CONSTRUCTION_OTHER	MAT_OTH	Text	40	Not currently in use.
28	PACKAGE_DESIGN_PRESSURE	DP_ACT	Integer	4	The design pressure for the package.
28	DESIGN_PRESSURE_UOM_REPORTED	DP_R_UOM	Text	3	Code that indicates the “Units of Measure” for the design pressure.
28	PACKAGE_SHELL_THICKNESS	ST_ACT	Number	7	The shell thickness for the package.
28	SHELL_THICKNESS_UOM_REPORTED	ST_R_UOM	Text	3	Code that indicates the “Units of Measure” for the shell thickness.
28	HEAD_THICKNESS	HT_ACT	Number	7,3	The head thickness for the package.
28	HEAD_THICKNESS_UOM_REPORTED	HT_R_UOM	Text	3	Code that indicates the “Units of Measure” for the head thickness.
28	PACKAGE_SERVICE_PRESSURE	SP_ACT	Integer	4	The service pressure for the package.
28	SERVICE_PRESSURE_UOM_REPORTED	SP_R_UOM	Text	3	Code that indicates the “Units of Measure” for the service pressure.
28	VALUE_DEVICE_FAIL_IND	VD_FAIL	Text	1	Indicate that a valve device failed.
28	VALVE_DEVICE_TYPE	VD_TYPE	Text	16	Valve type.
28	VALUE_DEVICE_MANUFACTURER	VD_MFG	Text	30	The valve manufacturer.
28	VALVE_DEVICE_MODEL	VD_MODEL	Text	16	The valve model.

Data Base Links

Data Base	Column	Type
PACKAGE	PKG_ID	Many to One
PKGFAIL	PHG_ID	One to Many

PKGFAIL

TOTAL RECORD LENGTH FOR IACTION DATABASE – 32

LOC	ATTRIBUTE	ABBREV	TYPE	LENGTH	DESCRIPTION
	PACKAGE_FAILURE_ID	PKG_F_ID	Integer	10	System generated integer that uniquely identifies each Package Failure record.
	PACKAGE_ID	PKG_ID	Integer	10	System generated integer that uniquely identifies each Package record.
25	FAILURE_LINE_NBR	F_SEQ	Integer	3	System generated integer that sequentially numbers Package Failure records.
25	WHAT_CD	WHAT_CD	Integer	3	What part of the packaging failed that was the immediate cause of the release.
25	HOW_CD	HOW_CD	Integer	3	How the corresponding part of the packaging failed.
25	CAUSE_CD	CAUSE_CD	Integer	3	What caused the corresponding part of the packaging to fail in the way it did.

Data Base Links

Data Base	Column	Type
PACKAGE	RPTNO	Many to One
PKGLAYER	RPTNO	Many to One

Codes and their Definitions

State Codes

LETTER CODE	STATE NAME
AL	Alabama
AK	Alaska
AZ	Arizona
AR	Arkansas
CA	California
CO	Colorado
CT	Connecticut
DE	Delaware
DC	District of Columbia
FL	Florida
GA	Georgia
HI	Hawaii
ID	Idaho
IL	Illinois
IN	Indiana
IA	Iowa
KS	Kansas
KY	Kentucky
LA	Louisiana
ME	Maine
MD	Maryland
MA	Massachusetts
MI	Michigan
MN	Minnesota
MS	Mississippi
MO	Missouri
MT	Montana

LETTER CODE	STATE NAME
NE	Nebraska
NV	Nevada
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NY	New York
NC	North Carolina
ND	North Dakota
OH	Ohio
OK	Oklahoma
OR	Oregon
PA	Pennsylvania
RI	Rhode Island
SC	South Carolina
SD	South Dakota
TN	Tennessee
TX	Texas
UT	Utah
VT	Vermont
VA	Virginia
WA	Washington
WV	West Virginia
WI	Wisconsin
WY	Wyoming
XX	State Unknown
ZZ	Foreign Country

Unit of Measure Conversion Table

Beginning January 1984, all measurements are in GAL, LBS, CFT, uCi, mCi, and Ci for uniformity. The conversion tables below show the means by which these converted numbers were attained from the original information.

Liquids

1 Mls	=	.00026417	Gal
1 Oz	=	.0078125	Gal
1 Cup	=	.0625	Gal
1 Pt	=	.125	Gal
1 Lbs	=	.125	Gal
1 Ltr	=	.26418	Gal
1 Qt	=	.25	Gal
1 Gal	=	1.0	Gal
1 Gli	=	1.13625	Gal
1 Bbl	=	42.0	Gal

Solids

1 Oz	=	.0625	Lb
1 Pt	=	1.0	Lb
1 Lb	=	1.0	Lb
1 Qt	=	2.0	Lb
1 Kgs	=	2.2046229	Lb
1 Gal	=	8.0	Lb
1 Ton	=	2000.0	Lb
1 Mts	=	2204.6229	Lb
1 Tns	=	2240.0	Lb

Gases

1 Gcm	=	.00003531	Cft
1 Mls	=	.00003531	Cft
1 Gci	=	.005787	Cft
1 Ltr	=	.03532	Cft
1 Pt	=	.01671	Cft
1 Gal	=	.13368	Cft
1 Gli	=	.1605	Cft
1 Cft	=	1.0	Cft
1 Qt	=	.03342	Cft
1 Cyd	=	27.0	Cft

Radioactive Materials

1 Ci	=	1	Ci
1 Mci	=	1	Mci
1 Uci	=	1	Uci

Multiple Report Codes

MULTIPLE

CODE

DESCRIPTION

A	A report number appearing once in the database with an A code, indicates an incident involving a single shipper, commodity, container type and size, and container manufacturer.
B	A report number appearing several times with codes B through U, indicates an incident involving more than one shipper, commodity, container type or size, or container manufacturer.
V	Limited quantities of hazardous materials for which a packaging exception is listed in section 172.101, col. 5(a).
W	Any hazardous material released from a hose during the normal course of loading or unloading of a tank vehicle after the internal valve has been closed and the hose has been disconnected.
X	Shipments of flammable liquids in packages of 5 gallons or less capacity (does not include limited quantities).
Y	Shipments of electric storage batteries.
Z	Any report which does not appear to meet the reporting criteria as outlined in section 171.16.

NOTE: Codes V through Z were added in January 1977.

NOTE: As of May 1999, the V, W, X and Y multiple codes are no longer used in coding the source documents. These documents will be coded with the appropriate remaining codes.

NOTE: As of January 2005, multiple codes are no longer used in coding the source documents.

Hazard Class Codes

<u>CLASS CODE</u>	<u>ABBREVIATION</u>	<u>CFR49 CODE</u>	<u>HAZARD CLASS</u>	<u>DEFINITION (CFR 49)</u>
01	FORBID		Forbidden	173.21
08	ORM-D		Other Regulated Material, Class D	173.144
11	EXPLO 1	1.1	Explosive Mass Explosion Hazard	173.50
12	EXPLO 2	1.2	Explosive Projection Hazard	173.50
13	EXPLO 3	1.3	Explosive Fire Hazard	173.50
14	EXPLO 4	1.4	Explosive No Blast Hazard	173.50
15	EXPLO 5	1.5	Very Insensitive Explosive	173.50
16	EXPLO 6	1.6	Extremely Insensitive Detonating	173.50
17	EXPL.A.		Explosives, Class A	173.53
18	EXPL.B.		Explosives, Class B	173.53
19	EXPL.C.		Explosives, Class C	173.53
20	COMB L		Combustible Liquid	173.120
21	F. G.	2.1	Flammable Compressed Gas	173.115
22	NONF.G.	2.2	Nonflammable Compressed Gas	173.115
23	POI GAS	2.3	Poisonous Gas	173.115
30	F. L.	3.0	Flammable - Combustible Liquid	173.120
41	F. S.	4.1	Flammable Solid	173.124
42	SPONTAN	4.2	Spontaneously Combustible	173.124
43	DAN WET	4.3	Dangerous When Wet Material	173.124
44	F. S.		Flammable Solid (Pre 1991)	Pre-1991 173.150
51	OXIDIZR	5.1	Oxidizer	173.127
52	ORG PER	5.2	Organic Peroxide	173.128
61	POISON	6.1	Poisonous Materials	173.132
62	INF SUB	6.2	Infectious Substance (Etiologic)	173.134
65	IRR		Irritating Material	173.132
70	R.A.M.	7	Radioactive Material	173.403
80	CORROS	8	Corrosive Material	173.136
90	MISCEL	9	Miscellaneous Hazardous Material	173.140
92	ORM-A		Other Regulated Material, Class a	Pre-1991 173.140
94	ORM-B		Other Regulated Material, Class B	Pre-1991 173.140
96	ORM-C		Other Regulated Material, Class C	Pre-1991 173.140
99	ORM-E		Other Regulated Material, Class E	Pre-1991 173.140

NOTE: Reclassification of some commodities has occurred due to changes in the regulations.

Label and Placard Codes

<u>LABEL</u> <u>ABBR.</u>	<u>PLACARD</u> <u>ABBR.</u>	<u>LABEL</u>	<u>PLACARD</u>	<u>CLASS</u>
EXPL A	EXPL A	Explosives A	Explosives A	EXPL.A.
EXPL B	EXPL B	Explosives B	Explosives B	EXPL.B.
EXPL C	EXPL C	Explosives C	Explosives C	EXPL.C.
RAM I		Radioactive White-I		R.A.M.
RAM II		Radioactive II Yellow-II		R.A.M.
RAM III	RADIOAC	Radioactive III Yellow-III	Radioactive	R.A.M.
YELLOW	OXIDIZR	Oxidizer	Oxidizer	OXIDIZR
YELLOW	ORG PER	Organic Peroxide	Organic Peroxide	ORG PER
YELLOWG	OXYGEN	Oxygen	Oxygen	NONF.G.
WHITE G	CHLORIN	Chlorine	Chlorine	NONF.G.
RED GAS	FLAMGAS	Flammable Gas	Flammable Gas	F. G.
GREEN	COMPGAS	Non-flammable Gas	Non-flammable Gas	NONF.G.
POIS A	POISONG	Poison Gas	Poison	POIS A
POIS B	POISON	Poison	Poison	POIS B
IRR	DANGER	Irritant	Danger	IRR
RED	FLAM	Flammable Liquid	Flammable Liquid	F. L.
RED	FLAMSLD	Flammable Solid	Flammable Solid	F. S.
ETIO A		Infectious Substance		INF SUB
EMPTY				
WHITE	CORROS	Corrosive	Corrosive	CORROS
	FLAMWET		Flammable Solid -Dangerous When Wet	F. S
SPONCOM		Spontaneously Combustible Danger – Peligro (Cargo Aircraft Only)		
COMBUST		Combustible	COMB L	
MAGNET		Magnetized Material		ORM-C
DANGER	Danger			
DNGRWET		Dangerous When Wet		DAN WET

Transportation Modes

<u>CODE NUMBER</u>	<u>MODE ABBREVIATION</u>	<u>MODE OF TRANSPORTATION</u>
1	AIR	Air
4	H-H	Highway (For Hire)
5	H-P	Highway (Private)
6	R	Railway
7	W	Water
8	F-F	Freight Forwarder
9	OTH	Other

NOTE: The mode freight forwarder is found in data prior to 1990.

NOTE: The mode Highway (Private) is found in data prior to 2000.

General Cause of Release

<u>CODE NUMBER</u>	<u>DESCRIPTION</u>
10	Human Error
20	Package failure
30	Vehicular accident/derailment
40	Other

NOTE: The above codes were added in January 1990 and discontinued in 2005.

Miscellaneous Code Descriptions

<u>CODE</u>	<u>DESCRIPTION</u>
100	None
101	EPA Registration (Pesticides)
102	Bureau of Explosives Authorization
103	IAEA Registrant
104	Unknown Container Manufacturer Embossing Symbol or Name
105	Marked ICC When it Should Be DOT (Boxes, Drums, Etc.)
106	Foreign Made Container
107	Container Not in Proper Condition for Shipment
108	Non-specification Container Used When Spec Container Required
109	People Evacuated
110	Bulk Loading/unloading Container Failure
111	Bulk Loading/unloading Human Error
112	Bulk Loading/unloading Storage Tank Failure
113	Foodstuffs Aboard Vehicle with Poisons
114	Materials Sent as Baggage or in Luggage
115	Specification Container Not Authorized for Commodity
116	Grade Crossing Incident (Train-truck Collision)
117	Military or Federal Spec Equivalent to DOT Spec Container
118	Material Splashed from Tank Car
119	Chemical Waste Product
120	Incident Involving Air Carriers Pickup & Delivery Truck
121	Tank Truck/trailer Rolled over Spilling Contents
122	Radioactive Material Released
123	Radioactive Material Not Released or Contaminated
124	Radioactive Contamination Only (No Release of Material)
125	No Release/major Transportation Artery or Facility Closed
126	No Release/operational Flight Plan of Aircraft Altered
127	No Release/people Evacuated
128	Major Transportation Artery or Facility Closed
129	Operational Flight Plan of Aircraft Altered
130	Hazardous Substance
131	Shipments Involving Mixed Modes of Transportation
132	Bulk Loading/unloading Cause Other
133	Undeclared Shipments - All Modes

Transportation Phase

<u>CODE</u>	<u>TRANSPORTATION PHASE</u>
261	Enroute Between Origin/Destination
262	Loading
263	Unloading
264	Temporary Storage/Terminal
265	Loading/unloading (Pre-1990 Incident)
999	Information Not Reported

Land Use

<u>CODE</u>	<u>LAND USE</u>
271	Industrial
272	Commercial
273	Residential
274	Agricultural
275	Undeveloped
999	Information Not Reported

Community Type

<u>CODE</u>	<u>COMMUNITY TYPE</u>
281	Urban
282	Suburban
283	Rural
291	Divided/Limited Access
292	Undivided
999	Information Not Reported

Highway Type

<u>CODE</u>	<u>HIGHWAY TYPE</u>
291	Divided/Limited Access
292	Undivided
999	Information Not Reported

Agency Codes

<u>CODE</u>	<u>AGENCY NAME</u>
1	Office of the Secretary of Transportation (OST)
2	Bureau of Transportation Statistics (BTS)
3	Federal Aviation Administration (FAA)
4	Federal Highway Administration (FHWA)
5	Federal Motor Carrier Safety Administration (FMCSA)
6	Federal Railroad Administration (FRA)
7	Federal Transit Administration (FTA)
8	Maritime Administration (MARAD)
9	National Highway Traffic Safety Administration (NHTSA)
10	Office of the Inspector General (OIG)
11	Pipeline and Hazardous Materials Safety Administration (PHMSA)
12	Saint Lawrence Seaway Development Corporation (SLSDC)
13	Surface Transportation Board (STB)

Air Incident Occurrence

<u>CODE</u>	<u>INCIDENT OCCURRENCE</u>
0	Air carrier cargo facility
1	Sort center
2	Baggage area
3	By surface to/from airport
4	During flight
5	During loading/unloading of aircraft

Packaging Type

<u>CODE</u>	<u>PACKAGING TPYE</u>
A	Non-Bulk
B	IBC
C	Cargo Tank Motor Vehicle (CTMV)
D	Tank Car
E	Cylinder
F	RAM
G	Portable Tank
Z	Other

Package Layer

<u>CODE</u>	<u>PACKAGE LAYER</u>
S	Single Layer
I	Inner Layer
O	Outer Layer

Container Abbreviations and Specification Numbers

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
103	Yes	TANK CAR	Non-pressure	--
103A	Yes	TANK CAR	Non-pressure	--
103AALW	Yes	TANK CAR	Non-pressure	--
103AL	Yes	TANK CAR	Non-pressure	--
103ALW	Yes	TANK CAR	Non-pressure	--
103ANW	Yes	TANK CAR	Non-pressure	--
103AW	Yes	TANK CAR	Non-pressure	--
103B	Yes	TANK CAR	Non-pressure	--
103BW	Yes	TANK CAR	Non-pressure	--
103C	Yes	TANK CAR	Non-pressure	--
103CAL	Yes	TANK CAR	Non-pressure	--
103CW	Yes	TANK CAR	Non-pressure	--
103DW	Yes	TANK CAR	Non-pressure	--
103EW	Yes	TANK CAR	Non-pressure	--
103W	Yes	TANK CAR	Non-pressure	--
104	Yes	TANK CAR	Non-pressure	--
104A	Yes	TANK CAR	Non-pressure	--
104AW	Yes	TANK CAR	Non-pressure	--
104W	Yes	TANK CAR	Non-pressure	--
105	Yes	TANK CAR	Pressure	--
105A	Yes	TANK CAR	Pressure	--
105AALW	Yes	TANK CAR	Pressure	--
105AF	Yes	TANK CAR	Pressure	--
105AW	Yes	TANK CAR	Pressure	--
105JW	Yes	TANK CAR	Pressure	--
106A	Yes	TANK CAR	Multi-unit	--
106ANCI	Yes	TANK CAR	Multi-unit	--
106AW	Yes	TANK CAR	Multi-unit	--
106AX	Yes	TANK CAR	Multi-unit	--
107A	Yes	TANK CAR	High pressure	--
109AALW	Yes	TANK CAR	Pressure	--
109AW	Yes	TANK CAR	Pressure	--
10A	No	BARREL/KEG WOOD	Wooden barrels and kegs (tight)	5/15/1974
10B	No	BARREL/KEG WOOD	Wooden barrels and kegs (tight)	Not used
10C	No	BARREL/KEG WOOD	Wooden barrels and kegs (tight)	5/15/1974
110A	Yes	TANK CAR	Multi-unit	--
110AW	Yes	TANK CAR	Multi-unit	--
111A	Yes	TANK CAR	Non-pressure	--
111AALW	Yes	TANK CAR	Non-pressure	--
111AF	Yes	TANK CAR	Non-pressure	--

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
111AW	Yes	TANK CAR	Non-pressure	--
112A	Yes	TANK CAR	Pressure	--
112AF	Yes	TANK CAR	Pressure	--
112AW	Yes	TANK CAR	Pressure	--
112J	Yes	TANK CAR	Pressure	--
112JW	Yes	TANK CAR	Pressure	--
112S	Yes	TANK CAR	Pressure	--
112SW	Yes	TANK CAR	Pressure	--
112T	Yes	TANK CAR	Pressure	--
112TW	Yes	TANK CAR	Pressure	--
113A175W	Yes	TANK CAR CRYO	Liquified hydrogen	--
113A60W	Yes	TANK CAR CRYO	Liquified hydrogen	--
113AW	Yes	TANK CAR	Liquified hydrogen	--
113C120W	Yes	TANK CAR CRYO	Liquified hydrogen	--
113CW	Yes	TANK CAR	Liquified hydrogen	--
113DW	Yes	TANK CAR	Liquified hydrogen	--
114A	Yes	TANK CAR	Pressure	--
114AW	Yes	TANK CAR	Pressure	--
114CW	Yes	TANK CAR	Pressure	--
114J	Yes	TANK CAR	Pressure	--
114JW	Yes	TANK CAR	Pressure	--
114S	Yes	TANK CAR	Pressure	--
114SW	Yes	TANK CAR	Pressure	--
114T	Yes	TANK CAR	Pressure	--
115AALW	Yes	TANK CAR	Non-pressure	--
115AW	Yes	TANK CAR	Non-pressure	--
11A	Yes	IBC	Metal, for solids	--
11B	Yes	IBC	Metal, for solids	--
11C	Yes	IBC	Wood with inner liner, for solids	--
11D	Yes	IBC	Plywood with inner liner, for solids	--
11F	Yes	IBC	Wood with inner liner, for solids	--
11G	Yes	IBC	Fiberboard, for solids	--
11H	Yes	IBC	Plastic, for solids	--
11H1	Yes	IBC	Plastic,	--
11H2	Yes	IBC	Plastic,	--
11HA	Yes	IBC	Composite, plastic in steel, for solids	--
11HA1	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and steel outer packaging	--
11HA2	Yes	IBC	Composite, with a flexible plastic inner receptacle for solids and a steel outer packaging	--
11HB	Yes	IBC	Composite, with a plastic inner receptacle and a steel outer packaging	--

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
11HB1	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and aluminum outer packaging	--
11HB2	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and an aluminum outer packaging	--
11HC	Yes	IBC	Composite, with a plastic inner receptacle and a natural wood outer packaging	--
11HC1	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a natural wood outer packaging	--
11HC2	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a natural wood outer packaging	--
11HD	Yes	IBC	Composite, with a plastic inner receptacle and a plywood outer packaging	--
11HD1	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a plywood outer packaging	--
11HD2	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a plywood outer packaging	--
11HF	Yes	IBC	Composite, with a plastic inner receptacle and reconstituted wood outer packaging	--
11HF1	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a reconstituted wood outer packaging	--
11HF2	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a reconstituted wood outer packaging	--
11HG	Yes	IBC	Composite, with a plastic inner receptacle and a fiberboard outer packaging	--
11HG1	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a fiberboard outer packaging	--
11HG2	Yes	IBC	Composite, with rigid plastic inner receptacle for solids and a fiberboard outer packaging	--
11HH	Yes	IBC	Composite, with a plastic inner receptacle and a plastic outer packaging	--
11HH1	Yes	IBC	Plastic,	--
11HH2	Yes	IBC	Plastic,	--
11HZ	Yes	IBC	Composite, with plastic inner receptacle for solids	--
11HZ1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded or discharged by gravity	--
11HZ2	Yes	IBC	Composite, with flexible plastic inner receptacle for solids loaded or discharged by gravity	--
11L	Yes	IBC	Textile, for solids	--
11M	Yes	IBC	Paper, multiwall for solids	--
11N	Yes	IBC	Metal, for solids	--
12A	No	BOX FIBER	Boxes NRC*	Not Used
12B	No	BOX FIBER	Boxes	Not Used
12C	No	BOX FIBER	Boxes	Not Used
12D	No	BOX FIBER	Boxes	Not Used

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
12E	No	BOX FIBER	Boxes	Not Used
12H	No	BOX FIBER	Boxes	Not Used
12P	No	BOX FIBER	Boxes NRC*	Not Used
12R	No	BOX FIBER	Paper faced expanded polystyrene NRC*	Not Used
13	No	KEG METAL	Metal kegs	Not Used
13A	Yes	IBC	Flexible metal receptacle for solids	--
13B	Yes	IBC	Flexible aluminum receptacle for solids	--
13C	Yes	IBC	Flexible natural wood receptacle for solids	--
13D	Yes	IBC	Flexible plywood receptacle for solids	--
13F	Yes	IBC	Flexible reconstituted wood for solids	--
13G	Yes	IBC	Flexible fiberboard receptacle for solids	--
13H	Yes	IBC	Flexible plastic receptacle for solids	--
13H1	Yes	IBC	Plastic, without coating or liner, for solids	--
13H2	Yes	IBC	Plastic, coated, for solids	--
13H3	Yes	IBC	Plastic with liner, for solids	--
13H4	Yes	IBC	Plastic, coated with liner, for solids	--
13H5	Yes	IBC	Plastic film, for solids	--
13L	Yes	IBC	Flexible textile receptacle for solids	--
13L1	Yes	IBC	Textile without coating or liner, for solids	--
13L2	Yes	IBC	Textile, coated, for solids	--
13L3	Yes	IBC	Textile with liner, for solids	--
13L4	Yes	IBC	Textile, coated and with liner, for solids	--
13M1	Yes	IBC	Paper, multiwall, for solids	--
13M2	Yes	IBC	Paper, multiwall, water resistant, for solids	--
13N	Yes	IBC	Flexible metal receptacle for solids	--
14	No	BOX WOOD	Nailed	Not Used
15A	No	BOX WOOD	Nailed	Not Used
15B	No	BOX WOOD	Nailed	Not Used
15C	No	BOX WOOD	Nailed	Not Used
15D	No	BOX WOOD	Nailed	Not Used
15E	No	BOX WOOD	Fiberboard lined	Not Used
15L	No	BOX WOOD	Boxes	Not Used
15M	No	BOX WOOD	Metal lined	Not Used
15P	No	BOX WOOD	Glued plywood or wooden box	Not Used
15X	No	BOX WOOD	Wooden boxes for two five-gallon cans	Not Used
16A	No	BOX WOOD	Plywood or wooden boxes, wirebound	Not Used
16B	No	BOX WOOD	Wooden boxes, wirebound	Not Used
16D	No	BOX WOOD	Wooden wirebound overwrap	Not Used
17C	No	DRUM METAL	Steel STC* RHA*	Not Used
17E	No	DRUM METAL	Steel STC* RHNA*	Not Used
17E/17H	No	DRUM METAL	Reconditioned 17E (closed head), converted to 17H (open head) STC* RHR*	Not Used

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
17F	No	DRUM METAL	Steel STC* RHNA*	Not Used
17H	No	DRUM METAL	Steel STC* RHR*	Not Used
17X	No	DRUM METAL	Steel barrels or drums STC* RHNA*	Not Used
18B	No	BOX WOOD	Wooden kits	Not Used
19A	No	BOX WOOD	Wooden boxes, plywood, cleated	Not Used
19B	No	BOX WOOD	Wooden boxes, plywood, nailed	Not Used
1A	No	CARBOY	Boxed	Not Used
1A1	No	DRUM METAL	Non-removable head steel drum	--
1A2	No	DRUM METAL	Removable head steel drum	--
1B	No	CARBOY	Boxed lead	5/11/1979
1B1	No	DRUM METAL	Non-removable head aluminum drum	--
1B2	No	DRUM METAL	Removable head aluminum drum	--
1C	No	CARBOY	In kegs	5/11/1979
1D	No	CARBOY	Boxed glass	--
1D	No	BARREL/KEG WOOD	Plywood drum	--
1E	No	CARBOY	Glass, in plywood drums	5/11/1979
1EX	No	CARBOY	Glass, in plywood drums STC*	Not Used
1G	No	DRUM NON-METAL	Fiber drum	--
1H	No	CARBOY	Polyethylene, in metal crates	Not Used
1H1	No	DRUM NON-METAL	Non-removable head plastic drum	--
1H2	No	DRUM NON-METAL	Removable head plastic drum	--
1K	No	CARBOY	Glass, cushioned with expandable polystyrene in wooden wirebound box	Not Used
1M	No	CARBOY	Glass with expanded polystyrene overpack	--
1N1	No	DRUM METAL	Non-removable head metal drum	--
1N2	No	DRUM METAL	Removable head metal drum	--
1X	No	CARBOY	Boxed, 5 to 6 1/2 gallons for export only STC*	Not Used
20PF	No	RAM CONTAINER	Phenolic-foam insulated, metal overpack	--
20WC	No	RAM CONTAINER	Wooden protective jacket	--
211AALW	Yes	TANK CAR	??????????	--
211AW	Yes	TANK CAR	??????????	--
21A	Yes	IBC	Metal, for solids	--
21B	Yes	IBC	Metal, for solids	--
21C	Yes	IBC	Rigid natural wood receptacle for solids	--
21D	Yes	IBC	Rigid plywood receptacle for solids	--
21F	Yes	IBC	Rigid reconstituted wood receptacle for solids	--
21G	Yes	IBC	Rigid fiberboard receptacle for solids	--
21H	Yes	IBC	Rigid plastic receptacle for solids	--
21H1	Yes	IBC	For solids, when stacked	--
21H2	Yes	IBC	Plastic, freestanding, for solids	--
21HA	Yes	IBC	Composite with plastic inner receptacle for solids and a steel outer packaging	--

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
21HA1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded or discharged under pressure and a steel outer packaging	--
21HA2	Yes	IBC	Composite, with a flexible plastic inner receptacle for solids loaded or discharged under pressure and a steel outer packaging	--
21HB	Yes	IBC	Composite with plastic inner receptacle for solids and an aluminum outer packaig	--
21HB1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded or discharged under pressure and an aluminum outer packaging	--
21HB2	Yes	IBC	Composite, with a flexible plastic inner receptacle for solids loaded or discharged under pressure and aluminum outer packaging	--
21HC	Yes	IBC	Composite plastic inner receptacle for solids and natural wood outer packaging	--
21HC1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded or discharged under pressure and a natural wood outer packagi	--
21HC2	Yes	IBC	Composite, with a flexible plastic inner receptacle for solids loaded or discharged under pressure and natural wood oute packagi	--
21HD	Yes	IBC	Composite, plastic receptacle for solids with plywood outer packaging	--
21HD1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded or discharged under pressure and a plywood outer packaging	--
21HD2	Yes	IBC	Composite, with a flexible plastic inner receptacle for solids loaded or discharged under pressure and a plywood outer packaging	--
21HF	Yes	IBC	Composite, with plastic receptacle for solids and reconstituted wood outer packaging	--
21HF1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded and discharged under pressure and reconstituted wood outer	--
21HF2	Yes	IBC	Composite, with flexible plastic inner receptacle for solids loaded or discharged under pressure and reconstituted wood outer pa	--
21HG	Yes	IBC	Composite, with plastic receptacle for solids and fiberboard outer packaging	--
21HG1	Yes	IBC	Composite, with a rigid plastic inner receptacle for solids loaded and discharged under pressure and fiberboard outer packaging	--

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
21HG2	Yes	IBC	Composite, with a flexible plastic inner receptacle for solids loaded and discharged under pressure and a fiberboard outer packag	--
21HH	Yes	IBC	Composite, with plastic receptacle for solids and plastic outer packaging	--
21HH1	Yes	IBC	Composite, with plastic inner liner for solids	--
21HH2	Yes	IBC	Composite, with plastic inner liner, for solids	--
21HZ	Yes	IBC	Composite, with plastic receptacle for solids	--
21HZ1	Yes	IBC	Composite, with plastic inner liner for solids	--
21HZ2	Yes	IBC	Composite, with plastic inner liner, for solids	--
21L	Yes	IBC	Textile receptacle for solids	--
21M	Yes	IBC	Paper, multiwall receptacle for solids	--
21N	Yes	IBC	Metal, for solids	--
21P	No	DRUM NON-METAL	Fiber drum overpack for inside plastic container	Not Used
21PF	No	RAM CONTAINER	Fire and shock resistant, phenolic-foam insulated, metal overpack	--
21WC	No	RAM CONTAINER	Wooden protective overpack	--
22A	No	DRUM NON-METAL	Wooden drums, plywood	Not Used
22B	No	DRUM NON-METAL	Wooden drums, plywood	Not Used
22C	No	DRUM NON-METAL	Plywood drum for plastic inside container	Not Used
23F	No	BOX FIBER	Fiberboard boxes	Not Used
23G	No	BOX FIBER	Special cylindrical fiberboard box for high explosives	Not Used
23H	No	BOX FIBER	Fiberboard boxes	Not Used
25	Yes	TANK	Steel cylinder, seamless, maximum size 120 pounds water capacity	--
26	Yes	TANK	Steel cylinder, seamless, maximum size 220 pounds water capacity	--
28	No	CARBOY	Metal-jacketed	5/11/1979
28A	No	CARBOY	Metal-jacketed	5/11/1979
29	No	TUBE	Mailing tube	Not Used
2A	No	INSIDE CONTAIN	Metal cans, pails and kits	Not Used
2C	No	INSIDE CONTAIN	Corrugated fiberboard cartons	Not Used
2C1	No	BARREL/KEG WOOD	Bung type wooden barrel	--
2C2	No	BARREL/KEG WOOD	Slack type (removable head) wooden barrel	--
2D	No	INSIDE CONTAIN	Duplex paper bags	Not Used
2E	No	INSIDE CONTAIN	Polyethylene bottle	Not Used
2F	No	INSIDE CONTAIN	Metal containers and liners	Not Used
2G	No	INSIDE CONTAIN	Fiber cans and boxes	Not Used
2J	No	INSIDE CONTAIN	Waterproof paper bags for linings	Not Used
2K	No	INSIDE CONTAIN	Paper bags for linings	Not Used
2L	No	INSIDE CONTAIN	Lining for boxes	Not Used
2M	No	INSIDE CONTAIN	Waterproof paper lining	Not Used
2N	No	INSIDE CONTAIN	Metal cans	Not Used

Note: Container types listed as “Not Used” are not currently used, but may be found in older incident reports.

ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
2P	No	INSIDE CONTAIN	Non-refillable metal containers	--
2Q	No	INSIDE CONTAIN	Non-refillable metal containers	--
2R	No	INSIDE CONTAIN	Metal tubes for radioactive materials	--
2S	No	INSIDE CONTAIN	Polyethylene containers RHNA*	Not Used
2SL	No	INSIDE CONTAIN	Polyethylene containers RHNA*	Not Used
2T	No	INSIDE CONTAIN	Polyethylene containers	Not Used
2TL	No	INSIDE CONTAIN	Polyethylene containers	Not Used
2U	No	INSIDE CONTAIN	Polyethylene containers over one gallon capacity RHNA*	Not Used
3	No	CYLINDER	Steel cylinder, seamless	Not Used
31	No	JUG	Jugs in tubs	5/11/1979
31A	Yes	IBC	Metal, for liquids or solids	--
31B	Yes	IBC	Metal, for liquids or solids	--
31C	Yes	IBC	Natural wood receptacle for liquids	--
31D	Yes	IBC	Plywood receptacle for liquids	--
31F	Yes	IBC	Reconstituted wood receptacle for liquids	--
31G	Yes	IBC	Fiberboard receptacle for liquids	--
31H	Yes	IBC	Plastic receptacle for liquids	--
31H1	Yes	IBC	For liquids, when stacked	--
31H2	Yes	IBC	Plastic, freestanding, for liquids	--
31HA	Yes	IBC	Composite, with plastic receptacle for liquids and steel outer packaging	--
31HA1	Yes	IBC	Composite, with a rigid plastic inner receptacle for liquids and a steel outer packaging	--
31HA2	Yes	IBC	Composite, with a flexible plastic inner receptacle for liquids and steel outer packaging	--
31HB	Yes	IBC	Composite, with plastic receptacle for liquids and aluminum outer packaging	--
31HB1	Yes	IBC	Composite, with a rigid plastic inner receptacle for liquids and aluminum outer packaging	--
31HB2	Yes	IBC	Composite, with a flexible plastic inner receptacle for liquids and aluminum outer packaging	--
31HC	Yes	IBC	Composite, with plastic receptacle for liquids and natural wood outer packaging	--
31HC1	Yes	IBC	Composite, with a rigid plastic inner receptacle for liquids and natural wood outer packaging	--
31HC2	Yes	IBC	Composite, with a flexible plastic inner receptacle for liquids and natural wood outer packaging	--
31HD	Yes	IBC	Composite, with plastic receptacle for liquids and plywood outer packaging	--
31HD1	Yes	IBC	Composite, with a rigid plastic inner receptacle for liquids and plywood outer packaging	--

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
31HD2	Yes	IBC	Composite, with a flexible plastic inner receptacle for liquids and plywood outer packaging	--
31HF	Yes	IBC	Composite, with plastic receptacle for liquids and reconstituted wood outer packaging	--
31HF1	Yes	IBC	Composite, with a rigid plastic inner receptacle for liquids and reconstituted wood outer packaging	--
31HF2	Yes	IBC	Composite, with a flexible plastic inner receptacle for liquids and reconstituted wood outer packaging	--
31HG	Yes	IBC	Composite, plastic receptacle for liquids and fiberboard outer packaging	--
31HG1	Yes	IBC	Composite, with a rigid plastic inner receptacle for liquids and fiberboard outer packaging	--
31HG2	Yes	IBC	Composite, with a flexible plastic inner receptacle for liquids and fiberboard outer packaging	--
31HH	Yes	IBC	Composite, with plastic receptacle for liquids and plastic outer packaging	--
31HH1	Yes	IBC	Composite, with plastic inner liner, for liquids	--
31HH2	Yes	IBC	Composite, with plastic inner liner, for liquids	--
31HZ	Yes	IBC	Composite, with plastic receptacle for liquids	--
31HZ1	Yes	IBC	Composite, with plastic inner liner, for liquids	--
31HZ2	Yes	IBC	Composite, with plastic inner liner, for liquids	--
31L	Yes	IBC	Textile receptacle for liquids	--
31M	Yes	IBC	Paper, multiwall receptacle for liquids	--
31N	Yes	IBC	Metal, for liquids or solids	--
32A	No	BOX METAL	Metal cases, riveted or lock-seamed	Not Used
32B	No	BOX METAL	Metal cases, welded or riveted	Not Used
32C	No	BOX METAL	Metal trunks	Not Used
32D	No	BOX METAL	Metal boxes	Not Used
33	Yes	TANK	Steel cylinder, seamless, maximum size 120 pounds water capacity	--
33A	No	OTHER	Polystyrene cases	Not Used
34	No	DRUM NON-METAL	Reusable molded polyethylene container without overpack RHNA*	Not Used
34B	No	CARBOY	Aluminum carboys	5/11/1979
35	No	DRUM NON-METAL	Non-reusable molded polyethylene drum for use without overpack RHR*	Not Used
36A	No	BAG CLOTH	Lined cloth (triplex)	Not Used
36B	No	BAG CLOTH	Burlap, lined	Not Used
36C	No	BAG CLOTH	Burlap, paper lined	Not Used
37A	No	DRUM METAL	Drums STC* RHR*	Not Used
37B	No	DRUM METAL	Drums STC* RHNA*	Not Used
37C	No	DRUM METAL	Drums NRC* RHR*	Not Used
37D	No	DRUM METAL	Drums NRC* RHNA*	Not Used

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ABBR. OR SPEC NO.	BULK? TYPE	CONTAINER DESCRIPTION	Date Use Cancelled	
37K	No	DRUM METAL	Drums STC* RHA*	Not Used
37M	No	DRUM METAL	Steel overpack for inside plastic container NRC*	Not Used
37P	No	DRUM METAL	Steel drums with polyethylene liner	Not Used
38	Yes	TANK	Steel cylinder, seamless, maximum size 5 pounds water capacity	--
39	No	CYLINDER	Non-reusable (non-refillable) cylinders NRC*	--
3A	Yes	CYLINDER BULK	Seamless steel	--
3A1	No	JERRICAN	Non-removable head steel jerrican	--
3A2	No	JERRICAN	Removable head steel jerrican	--
3A480X	No	CYLINDER	Seamless steel	--
3AA	No	CYLINDER	Seamless steel, made of definitely prescribed steels	--
3AAX	Yes	CYLINDER TRL	Seamless steel, made of definitely prescribed steels over 1000 pounds water volume	--
3AL	No	CYLINDER	Seamless cylinder made of definitely prescribed aluminum alloys	--
3AX	Yes	CYLINDER TRL	Seamless steel, over 1000 pounds water volume	--
3B	No	CYLINDER	Seamless steel	--
3B1	No	JERRICAN	Non-removable head aluminum jerrican	--
3B2	No	JERRICAN	Removable head aluminum jerrican	--
3BN	No	CYLINDER	Seamless nickel	--
3C	No	CYLINDER	Seamless steel	--
3D	No	CYLINDER	Seamless steel	--
3E	No	CYLINDER	Seamless steel	--
3H1	No	JERRICAN	Non-removable head plastic jerrican	--
3H2	No	JERRICAN	Removable head plastic jerrican	--
3HT	No	CYLINDER	Inside containers, seamless steel for A/C* use	--
3T	No	CYLINDER	Seamless steel	--
4	No	CYLINDER	Forge welded steel	--
40	No	CYLINDER	Non-refillable metal containers	--
41	No	CYLINDER	Non-refillable metal containers	--
42	No	DRUM METAL	Aluminum drum	Not Used
42B	No	DRUM METAL	Drums	Not Used
42C	No	DRUM METAL	Barrels or drums	Not Used
42D	No	DRUM METAL	Drums	Not Used
42E	No	DRUM METAL	Drums STC*	Not Used
42F	No	DRUM METAL	Barrels or drums RHR*	Not Used
42G	No	DRUM METAL	Drums	Not Used
42H	No	DRUM METAL	Drums RHNA*	Not Used
43A	No	DRUM NON-METAL	Rubber drums	5/11/1979
44B	No	BAG PAPER	Paper bags	Not Used
44C	No	BAG PAPER	Paper bags	Not Used
44D	No	BAG PAPER	Paper bags	Not Used

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
44E	No	BAG PAPER	Paper bags	Not Used
44P	No	BAG PLASTIC	All plastic bag	Not Used
45B	No	BAG CLOTH	Bags, cloth and paper, lined	Not Used
4A	No	CYLINDER	Forge welded steel	--
4A1	No	BOX METAL	Unlined and uncoated steel box	--
4A2	No	BOX METAL	Steel box with inner liner or coating	--
4AA480	No	CYLINDER	Welded steel	--
4B	No	CYLINDER	Welded and brazed steel	--
4B1	No	BOX METAL	Unlined and uncoated aluminum box	--
4B2	No	BOX METAL	Aluminum box with inner liner or coating	--
4B240ET	No	CYLINDER	Welded and brazed	--
4B240FLW	No	CYLINDER	Welded or welded and brazed	--
4B240X	No	CYLINDER	Cylinder without longitudinal seam for pressures of 150 to 500 pounds psi	--
4BA	No	CYLINDER	Welded or brazed steel, made of definitely prescribed steels	--
4BW	No	CYLINDER	Welded steel	--
4C	No	CYLINDER	Welded and brazed steel	--
4C1	No	BOX WOOD	Natural wood box	--
4C2	No	BOX WOOD	Natural wood box with sift-proof walls	--
4D	No	CYLINDER	Inside containers, welded steel	--
4D	No	BOX WOOD	Plywood box	--
4DA	No	CYLINDER	Inside containers, welded steel for A/C* use	--
4DS	No	CYLINDER	Inside containers, welded stainless steel	--
4E	No	CYLINDER	Welded aluminum	--
4F	No	BOX WOOD	Reconstituted wood box	--
4G	No	BOX FIBER	Fiberboard box	--
4H1	No	BOX PLASTIC	Expanded plastic box	--
4H2	No	BOX PLASTIC	Solid plastic box	--
4L	No	CYLINDER	Welded, insulated	--
4M	No	BOX MULTI-WALL	Paper, multi-wall box	--
5	No	DRUM METAL	Steel barrels or drums RHA*	--
50	Yes	TANK	PORTABLE TANK	--
51	Yes	TANK	Steel	Not Used
51X	Yes	TANK	Steel portable tank	--
52	Yes	TANK	PORTABLE TANK	--
53	Yes	TANK	PORTABLE TANK	--
55	No	RAM CONTAINER	Metal encased, uranium or lead shielded container for radioactive materials	Not Used
56	Yes	TANK	PORTABLE TANK	--
57	Yes	TANK	PORTABLE TANK	--
5A	No	DRUM METAL	Steel barrels or drums RHNA*	Not Used

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
5B	No	DRUM METAL	Steel barrels or drums RHA*	Not Used
5C	No	DRUM METAL	Steel barrels or drums RHNA*	Not Used
5D	No	DRUM METAL	Steel barrels or drums, lined RHA*	Not Used
5F	No	DRUM METAL	Steel drums RHNA*	--
5H	No	DRUM METAL	Steel barrels or drums, lead lined RHNA*	Not Used
5H1	No	BAG PLASTIC	Unlined or non-coated woven plastic bag	--
5H2	No	BAG PLASTIC	Sift proof woven plastic bag	--
5H3	No	BAG PLASTIC	Water-resistant woven plastic bag	--
5H4	No	BAG PLASTIC	Plastic film bag	--
5K	No	DRUM METAL	Nickel barrels or drums RHNA*	Not Used
5L	No	DRUM METAL	Steel barrels or drums RHNA*	Not Used
5L1	No	BAG CLOTH	Unlined or non-coated textile bag	--
5L2	No	BAG CLOTH	Sift proof textile bag	--
5L3	No	BAG CLOTH	Water-resistant textile bag	--
5M	No	DRUM METAL	Monel drums	Not Used
5M1	No	BAG PAPER	Multi-wall paper bag	--
5M2	No	BAG PAPER	Multi-wall water-resistant paper bag	--
5P	No	DRUM METAL	Lagged steel drums RHNA*	Not Used
5X	No	DRUM METAL	Steel drums, aluminum lined RHNA*	Not Used
60	Yes	TANK	Steel	--
6A	No	DRUM METAL	Steel barrels or drums RHA*	Not Used
6B	No	DRUM METAL	Steel barrels or drums RHA*	Not Used
6C	No	DRUM METAL	Steel barrels or drums RHA*	Not Used
6D	No	DRUM METAL	Cylindrical steel overpack, straight sided, for inside plastic containers	Not Used
6HA1	No	COMPOSITE	Plastic receptacle within a protective steel drum	--
6HA2	No	COMPOSITE	Plastic receptacle within a protective steel crate or box	--
6HB1	No	COMPOSITE	Plastic receptacle within a protective aluminum drum	--
6HB2	No	COMPOSITE	Plastic receptacle within a protective aluminum crate or box	--
6HC	No	COMPOSITE	Plastic receptacle within a protective wooden box	--
6HD1	No	COMPOSITE	Plastic receptacle within a protective plywood drum	--
6HD2	No	COMPOSITE	Plastic receptacle within a protective plywood box	--
6HG1	No	COMPOSITE	Plastic receptacle within a protective fiber drum	--
6HG2	No	COMPOSITE	Plastic receptacle within a protective fiberboard box	--
6HH	No	COMPOSITE	Plastic receptacle within a protective plastic drum	--
6HH1	No	COMPOSITE	Plastic receptable within a protective plastic drum	--
6HH2	No	COMPOSITE	Plastic receptacle within a protective plastic box	--
6J	No	DRUM METAL	Steel barrels or drums RHA*	Not Used
6K	No	DRUM METAL	Steel barrels or drums RHA*	Not Used
6L	No	RAM CONTAINER	Metal packaging	--

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
6M	No	RAM CONTAINER	Metal packaging	--
6PA1	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective steel drum	--
6PA2	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective steel crate or box	--
6PB1	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective aluminum drum	--
6PB2	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective aluminum crate or box	--
6PC	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective wooden box	--
6PD1	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective plywood drum	--
6PD2	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective wicker work hamper	--
6PG1	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective fiber drum	--
6PG2	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective fiberboard box	--
6PH1	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective expanded plastic packaging	--
6PH2	No	COMPOSITE	Glass, porcelain or stoneware receptacle within a protective solid plastic packaging	--
7A	No	RAM CONTAINER	General packaging, for type A radioactive materials	--
8	No	CYLINDER	Steel for acetylene	--
8AL	No	CYLINDER	Steel for acetylene	--
9	No	CYLINDER	Non-refillable metal containers	--
ARA-I	Yes	TANK CAR	?????????	--
BAG	No	BAG	Bag, no description given	--
BAG CLTH	No	BAG CLOTH	Cloth or burlap bag (cont1 for solid materials)	--
BAG PLS	No	BAG PLASTIC	Plastic bag (cont1 for solid materials)	--
BAG PPR	No	BAG PAPER	Paper bag (cont1 for solid materials)	--
BAGGAGE	No	OTHER	Packages or containers checked on board an aircraft by a passenger in addition to luggage	--
BARGE	Yes	OTHER	Barge (use only if spill occurred during loading or unloading)	--
BARREL W	No	BARREL/KEG WOOD	Wooden barrel (cont1 for solid materials)	--
BATTERY	No	BATTERY	battery for holding battery fluid	--
BE-27	Yes	CYLINDER BULK	Cylinder, 150 to 2000 pounds water volume FOR RAIL TRANSPORT ONLY	Not Used
BIN PORT	Yes	OTHER	Portable bin (cont1 for solid materials)	--
BLANK	No	OTHER	Reporter left container blank	--
BOTL	No	BOTTLE	Bottle, plastic or glass not specified, capacity 2 gallon or less	--

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
BOTL GLS	No	BOTTLE	Glass bottle, capacity 2 gallons or less	--
BOTL PLS	No	BOTTLE	Plastic bottle, capacity 2 gallons or less	--
BOX	No	BOX	Box, wood or fiberboard not specified	--
BOX FBR	No	BOX FIBER	Fiberboard box or carton	--
BOX MTL	No	BOX METAL	Metal box	--
BOX WOOD	No	BOX WOOD	Wooden box	--
CAGE	No	OTHER	Cage made of wooden frame with wire cover (cont2 only)	--
CAN	No	CAN	Can, other than metal or aluminum	--
CAN AERO	No	CAN	Aerosol can (contents under pressure)	--
CAN ALUM	No	CAN	Aluminum can	--
CAN FBR	No	CAN	Fiberboard can	--
CAN MTL	No	CAN	Metal can, capacity 7 gallons or less	--
CARBOY	No	CARBOY	Carboy, other than glass or plastic or material unspecified, capacity 5 gallons or more	--
CARBOY G	No	CARBOY	Glass carboy, capacity 5 gallons or more	--
CARBOY P	No	CARBOY	Plastic carboy, capacity 5 gallons or more	--
CARTON P	No	BOX PLASTIC	Plastic carton or box (cont2 primarily)	--
CONT	No	CONTAINER	Container, no description given (do not use if at all possible)	--
CONT GLS	No	INSIDE CONTAIN	Glass container, no capacity or description given	--
CONT IBC	No	IBC CONTAINER	Container, no IBC type given	--
CONT LD	No	RAM CONTAINER	Lead container used as shielding for inner container of radioactive materials	--
CONT MTL	No	INSIDE CONTAIN	Metal container, no description given	--
CONT PLS	No	INSIDE CONTAIN	Plastic container, no capacity or description given	--
CONT STY	No	OTHER	Molded styrofoam overpack for bottles, jugs or carboys	--
CYL	No	CYLINDER	Cylinder, a pressure vessel for compressed gases	--
CYL MTL	No	CYLINDER	Cylindrical metal container, not for compressed gases (i. e., not a pressure vessel)	--
DOT 406	Yes	TANK	cargo tanks	--
DOT 407	Yes	TANK	cargo tanks	--
DOT 412	Yes	TANK	cargo tanks	--
DRUM	No	DRUM	Drum - fiber, metal or plastic not specified	--
DRUM FBR	No	DRUM NON-METAL	Fiber drum, cont1 for solids, cont2 for liquids	--
DRUM MTL	No	DRUM METAL	Metal drum	--
DRUM PLS	No	DRUM NON-METAL	Plastic drum	--
DRUM RBR	No	DRUM NON-METAL	Rubber drum	--
FLASK ST	No	OTHER	Steel or iron flask for the shipment of mercury	--
HOPPER R	Yes	HOPPER	Rail hopper car for solid materials only	--
HOPPER T	Yes	HOPPER	Highway hopper trailer for solid materials only	--

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
ICC-27	Yes	CYLINDER BULK	Cylinder, 1700 pounds water volume FOR RAIL TRANSPORT ONLY	--
ICC-3	No	CYLINDER	Steel cylinder	Not Used
IM101	Yes	TANK INTERMODAL	Steel portable tank	--
IM102	Yes	TANK INTERMODAL	Steel portable tank	--
JAR	No	JAR	Jar, glass, plastic or earthenware not specified	--
JAR GLS	No	JAR	Glass jar	--
JAR PLS	No	JAR	Plastic jar	--
JUG	No	JUG	Jug, glass or plastic not specified, capacity more than 2 gallons and less than 5 gallons	--
JUG GLS	No	JUG	Glass jug, capacity more than 2 gallons and less than 5 gallons	--
JUG PLS	No	JUG	Plastic jug, capacity more than 2 gallons and less than 5 gallons	--
KEG MTL	No	KEG METAL	Metal keg	--
KEG WOOD	No	BARREL/KEG WOOD	Wooden keg	--
LINR PLS	No	INSIDE CONTAIN	Plastic liner for fiber drums and boxes or metal drums containing liquids	--
LUGGAGE	No	OTHER	Passenger luggage on bus or aircraft	--
MC200	No	OTHER	For liquid nitroglycerin or diethylene glycol dinitrate	Not Used
MC201	No	OTHER	Container for detonators and percussion caps	--
MC300	Yes	TANK	Cargo tanks	--
MC301	Yes	TANK	Cargo tanks	--
MC302	Yes	TANK	Cargo tanks	--
MC303	Yes	TANK	Cargo tanks	--
MC304	Yes	TANK	Cargo tanks	--
MC305	Yes	TANK	Cargo tanks	--
MC306	Yes	TANK	Cargo tanks	--
MC307	Yes	TANK	Cargo tanks	--
MC310	Yes	TANK	Cargo tanks	--
MC311	Yes	TANK	Cargo tanks	--
MC312	Yes	TANK	Cargo tanks	--
MC330	Yes	TANK	Cargo tanks	--
MC331	Yes	TANK	Cargo tanks	--
MC338	Yes	TANK CRYO	Cargo tanks for cryogenic liquids	--
MIL ORD	No	MIL ORD	military ordnance, ammunition (including bomb, torpedoes, etc.)	--
NONE	No	OTHER	Used on battery reports when reporter stated no packaging used	--
PAIL	No	PAIL	Pail, open head, capacity 10 gallons or less	--
PAIL MTL	No	DRUM METAL	Metal pail, open head, capacity 10 gallons or less	--
PAIL PLS	No	DRUM NON-METAL	Plastic pail, open head, capacity 10 gallons or less	--

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ABBR. OR SPEC NO.	BULK?	TYPE	CONTAINER DESCRIPTION	Date Use Cancelled
PALLET	No	OTHER	Pallet, used only for battery reports when no other container given	--
TANK	Yes	TANK	Non-portable tank	--
TANK CAR	Yes	TANK CAR	Railroad tank car	--
TANK PRT	Yes	TANK	Portable tank	--
TANK RBR	Yes	TANK	Portable rubber tank	--
TANK STG	Yes	TANK	Storage tank	--
TANK TRK	Yes	TANK	Tank truck, tank mounted on truck chassis	--
TANK TRL	Yes	TANK	Tank trailer, semi-trailer or full trailer (two axles)	--
TUBE	No	TUBE	Squeeze tube	--
TUBE FBR	No	TUBE	Fiber tube	--
TUBE GLS	No	TUBE	Glass tube	--
TUBE MAL	No	TUBE	Mailing tube, fiberboard	--
TYPE A	No	RAM CONTAINER	Type A container for radioactive materials	--
TYPE B	Yes	RAM CONTAINER	Type B containers for radioactive material(includes small packages thru large casks)	--

Failure Codes

CODE	WHAT FAILED
101	Air Inlet
102	Auxiliary Valve
103	Basic Material
104	Body
105	Bolts or Nuts
106	Bottom Outlet Valve
107	Check Valve
108	Chime
109	Closure (e.g., Cap, Top, or Plug)
110	Cover
111	Cylinder Neck or Shoulder
112	Cylinder Sidewall - Near Base
113	Cylinder Sidewall - Other
114	Cylinder Valve
115	Discharge Valve or Coupling
116	Excess Flow Valve
117	Fill Hole
118	Flange
119	Frangible Disc
120	Fusible Pressure Relief Device or Element
121	Gasket
122	Gauging Device
123	Heater Coil
124	High Level Sensor
125	Hose
126	Hose Adaptor or Coupling
127	Inlet (Loading) Valve
128	Inner Packaging
129	Inner Receptacle
130	Lifting Feature
131	Lifting Lug
132	Liner

133	Liquid Line
134	Liquid Valve
135	Loading or Unloading Lines
136	Locking Bar
137	Manway or Dome Cover
138	Mounting Studs
139	O-Ring or Seals
140	Outer Frame
141	Piping or Fittings
142	Piping Shear Section
143	Pressure Relief Valve or Device - Non-Reclosing
144	Pressure Relief Valve or Device - Reclosing
145	Remote Control Device
146	Sample Line
147	Stub Sill (Tank Car)
148	Sump
149	Tank Head
150	Tank Shell
151	Thermometer Well
152	Threaded Connection
153	Vacuum Relief Valve
154	Valve Body
155	Valve Seat
156	Valve Spring
157	Valve Stem
158	Vapor Valve
159	Vent
160	Washout
161	Weld or Seam

Code	How Failed
301	Abraded
302	Bent
303	Burst or Ruptured
304	Cracked
305	Crushed
306	Failed to Operate
307	Gouged or Cut
308	Leaked
309	Punctured
310	Ripped or Torn
311	Structural
312	Torn Off or Damaged
313	Vented

Code	Causes of Failure
501	Abrasion
502	Broken Component or Device
503	Commodity Self-ignition
504	Commodity Polymerization
505	Conveyer or Material Handling Equipment Mishap
506	Corrosion - Exterior
507	Corrosion - Interior
508	Defective Component or Device
509	Derailment
510	Deterioration or Aging
511	Dropped
512	Fire, Temperature, or Heat
513	Forklift Accident
514	Freezing
515	Human Error
516	Impact with Sharp or Protruding Object (e.g., nails)
517	Improper Preparation for Transportation
518	Inadequate Accident Damage Protection
519	Inadequate Blocking and Bracing
520	Inadequate Maintenance
521	Inadequate Preparation for Transportation
522	Inadequate Procedures
523	Inadequate Training
524	Incompatible Product
525	Incorrectly Sized Component or Device
526	Loose Closure, Component, or Device
527	Misaligned Material, Component, or Device
528	Missing Component or Device
529	Overfilled
530	Over-pressurized
531	Rollover Accident
532	Stub Sill Separation from Tank (Tank Cars)
533	Threads Worn or Cross Threaded
534	Too Much Weight on Package
535	Valve Open
536	Vandalism
537	Vehicular Crash or Accident Damage
538	Water Damage