

**ILLINOIS COMMERCE COMMISSION'S
2002 ANNUAL REPORT
ON ACCIDENTS/INCIDENTS
INVOLVING HAZARDOUS MATERIALS ON
RAILROADS IN ILLINOIS**

**Prepared by:
Transportation Division
Railroad Safety Section**

**Illinois Commerce Commission
527 East Capitol Avenue
Springfield, Illinois 62701**

STATE OF ILLINOIS



ILLINOIS COMMERCE COMMISSION

May 14, 2003

The Honorable Rod R. Blagojevich
Governor, State of Illinois

The Honorable Emil Jones, Jr.
President of the Senate

The Honorable Frank Watson
Minority Leader of the Senate

The Honorable Michael J. Madigan
Speaker of the House

The Honorable Tom Cross
Minority Leader of the House

Re: 2002 ICC Hazardous Materials Report

Dear Governor Blagojevich and Members of the Legislative Leadership:

The attached report by the staff of the Illinois Commerce Commission is hereby submitted to the General Assembly in response to 625 Illinois Compiled Statutes, 18c-1204. Section 18c-1204 directs the Commission to "prepare and distribute to the General Assembly... a report on railway accidents in Illinois which involve hazardous materials."

As required by Illinois law, this report includes the location, substance involved, amounts involved, and the suspected reason for each accident, which occurred in Illinois during calendar year 2002. The report also provides the rail line and point of origin of the hazardous material involved in each accident.

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Additionally, the report contains the following related information:

- Details regarding events where hazardous material was involved but no release occurred;
- An overview of ICC activities relative to the transportation of hazardous materials by rail within the State; and,
- A history of the railroad hazardous materials program.

Should you have questions or need clarification about any of the information presented, please contact Michael Baer, Director of Governmental Affairs, at (217) 524-0619.

Sincerely,

Edward C. Hurley
Chairman

FOREWORD

The following report by the staff of the Illinois Commerce Commission was prepared in accordance with the provisions of 625 ILCS 5/18c-1204, which directs the Commission to “prepare and distribute to the General Assembly... a report on railway accidents in Illinois which involve hazardous materials.” The law also provides that the report shall include the location, substance involved, amounts involved, and the suspected reason for each accident, as well as the rail line and point or origin of the hazardous material involved in each accident.”

Additionally, the report contains the following related information:

- Details regarding events where hazardous material was involved but no release occurred; and
- An overview of ICC activities relative to the transportation of hazardous materials by rail within the State; and,

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BACKGROUND

Illinois is a key hub in the nation's transportation system. With nearly 8,000 miles of railroad track, Illinois' rail system is the country's second largest, with the Chicago and East St. Louis terminals being two of the country's busiest. Approximately three million tons of hazardous materials move by rail through Illinois each year, or about 10 percent of the total Illinois freight traffic.

There are approximately 3,500 materials classified as hazardous by the U. S. Department of Transportation ranging from mild irritants to poisonous and radioactive materials. The Association of American Railroads' Bureau of Explosives has identified approximately 125 hazardous materials which comprise 88 percent of railroad hazardous materials shipments (see Attachment 6 for a listing of hazardous materials commonly transported by rail in the United States and the hazard class of that commodity). Shipments range from packages as small as pint containers within trailers on flat cars to tank cars holding as much as 42,000 gallons.

In 2002, 16,293 hazardous materials rail cars were inspected in Illinois, up from 15,102 in 1999. Violations of hazardous materials regulations found by Commission inspectors decreased from 12 percent in 1981 to 3.8 percent in 2002. This reduction is due in large part to Commission initiated conferences with rail carriers and shippers to apprise them of the complex and evolving regulations and ICC follow-up inspections to assure compliance.

HAZARDOUS MATERIALS INSPECTION ACTIVITIES

The Commission's hazardous materials inspection program has four main components: (1) inspection, (2) technical assistance, (3) escort of nuclear materials, and (4) education.

Inspections

The four categories of inspections are as follows:

Railroad Equipment

Hazardous materials equipment inspections are performed on a stationary hazardous material rail car, normally in a railroad yard or on a shipping facility's loading and unloading tracks. This inspection ensures the cars are affixed with the proper placards identifying the hazardous material on board (see Attachment 1 for examples of placards and information they provide, particularly to emergency response personnel). Inspectors also check the car's marking, stenciling, tank and valve test dates, and mechanical safety features.

Roll-By

A roll-by inspection involves monitoring an entire train while in motion. The location of loaded hazardous materials cars, as well as those which have been unloaded but still contain a residue of a hazardous material, is observed in relation to engines, occupied cabooses, other hazardous materials cars, and certain other types of cargo cars. If cars are improperly placed in the train, Commission inspectors stop the train and order proper placement.

Documentation

Documentation inspections involve checking for the proper preparation of shipping documents, including waybills and bills of lading, and are conducted at rail freight offices and private shipping facilities. A bill of lading is a document listing goods for shipment (see Attachment 5 for a typical bill of lading). A twenty-four hour emergency response telephone number must be on the bill of lading following the description of the hazardous material or on the waybill in a clearly visible location. Inspectors check for the proper shipping name, hazard class, 4-digit identification number, and weight. Hazardous materials regulations require all of the above. This is critical in the event of a mishap involving hazardous materials cars. Emergency response personnel can then get necessary and accurate information from the waybill to prepare an appropriate response to the incident.

Shipping Facilities

Shipping facilities inspections are conducted at privately owned facilities. The purpose of these inspections is to ensure that the use of Title 49 safety regulations of hazardous materials are being performed safely, and that all hazardous materials regulations have been met prior to such cars being released to rail carriers for shipment.

Hazardous Materials Inspectors inspected 11 shippers of hazardous materials in 2002.

Technical Assistance

Commission inspectors respond to rail related collisions/incidents involving hazardous materials. The Commission's role is to provide technical assistance to the emergency response personnel. Inspectors provide assistance by determining whether the product information provided by the rail carrier or shipper to the emergency response personnel is proper and adequate, by advising as to spill mitigation and clean-up techniques, by assisting in the identification of the cause of the event, and by checking for violations of hazardous materials regulations. Commission inspectors are available to respond to railroad hazardous materials incidents at any time of the day or night.

Escort Of Nuclear Material

The movement of nuclear material, in or through the state of Illinois by rail, occurs with minimal frequency. However, as spent nuclear fuel begins to move to a national repository, more of this type of rail movement is anticipated. The protocol for such movements requires that the train be stopped and inspected before it enters Illinois and that it be escorted as it moves through the state. Inspection of the track ahead of the train is also required.

Radioactive material is probably the most controversial and misunderstood class of hazardous materials being transported by railroad. Although there has never been a transportation accident during which radioactive material was released, widespread concern remains regarding its safe transportation and thus careful planning and inspection are essential to building and maintaining public confidence.

Education

As provided by statute, Commission inspectors offer training for local enforcement and emergency response agencies. This training is designed to acquaint participants with rail car marking and placarding requirements and emergency response guide books. Another program is presented to fire departments concerning tank car structure and damage assessment. Commission inspectors also make presentations on the interpretation and application of the federal and state hazardous materials regulations to railroad company personnel. Since 1990, seventy-four presentations on hazardous materials have been made to approximately 1,595 persons affiliated with a variety of emergency planning and response teams.

Commission Inspection Program and Personnel

Under federal law (49 CFR, Part 212) individual states are authorized to participate in the Railroad Hazardous Materials Inspection Program. This program is under the supervision of the FRA and grants state inspectors the same authority as federal inspectors in safety inspections and investigations, with respect to the transportation of hazardous materials.

The Commission employs two full time personnel trained in hazardous materials inspections. Both inspectors are certified by the Federal Railroad Administration. These employees spend the majority of their work time in the field conducting inspections at various railroad sites and industrial locations. They are also responsible for maintaining inspection data, responding to complaints, and providing information pertaining to hazardous materials movements to various state and federal agencies.

DATA REGARDING ACCIDENTS DURING 2002 REQUIRED BY LAW

Specific information required by 625 Illinois Compiled Statutes 18c-1204 is shown in tabular form on the following pages. The applicable Section states: "The staff shall prepare and distribute to the General Assembly, in April of each year, a report on railway accidents in Illinois which involve hazardous materials. The report shall include the location, substance involved, amounts involved, and the suspected reason for each accident. The report shall also reveal the rail line and point of origin of the hazardous material involved in each accident."

The report is divided into three categories.

Table A shows railroad derailments where hazardous materials were being transported in the derailed railroad equipment and a hazardous material release occurred.

Table B shows railroad derailments where hazardous materials were being transported in the train and railroad equipment derailed, but no hazardous material was released.

Table C shows hazardous material releases from railroad equipment where no derailment occurred.

The location column in Tables A, B, and C indicates the county where the accident/incident occurred and the nearest identifiable location. Information for all three tables was obtained from reports to the Commission from Illinois railroads and from the United States Department of Transportation, Research and Special Programs Administration.

Three categories of information not specifically requested by the General Assembly have been added to make the report more useful. The first category is "Amount Released". This is important since the category "Amount Involved", required by statute, could easily be confused with the category of "Amount Released". Amount Involved is the amount of hazardous materials being transported at the time of the incident. Amount Released is the amount which was actually released to the environment. The second added category is the type of railroad equipment involved, and the third category, added to help identify the specific incident, is the date of the incident.

In the tables, railroad companies are designated by their initials. A listing of the complete names of each company follows Table C.

TABLE A**Hazardous Materials Physically Involved In Derailment And Hazardous Materials Release Occurred**

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
BROADMOOR MARSHALL	UP	DIESEL FUEL	UNKNOWN	CREW FAILURE OF WRITTEN ORDERS	13,300 GALS.	6,000 GALS.	E	1/1/02
BRIDGEVIEW COOK	IHB	DIESEL FUEL	UNKNOWN	HUMAN FAILURE TRAIN RAN INTO REAR OF ANOTHER TRAIN	1,200 GALS.	5 GALS.	E	2/28/02
CICERO COOK	CNIC	CREOSOTE	CICERO, IL	DERAILMENT	20,754 GALS.	5 GALS.	T	4/5/02
CICERO COOK	CNIC	CREOSOTE	GRENADA, MS.	FAILURE TO REALIGN SWITCH	19,000 GALS.	2 GALS.	T	4/5/02
JOLIET WILL	BNSF	DIESEL FUEL	UNKNOWN	IMPROPERLY LOADED CAR HAD LOAD SHIFT AND STRUCK BY ANOTHER TRAIN	4,000 GALS.	2,500 GALS.	E	4/14/02
ROCHELLE OGLE	UP	DIESEL FUEL	UNKNOWN	DERAILMENT	5,000 GALS.	< 10 GALS.	E	7/14/02
DECATUR MACON	NS	DIESEL FUEL	UNKNOWN	RUPTURED FUEL TANK	3,000 GALS.	1,000 GALS	E	8/10/02
MONTROSE EFFINGHAM	CSX	ACETONE	THEODORE, AL.	HARMONIC ROCKING OF RAIL CARS	29,832 GALS.	350 GALS.	T	9/11/02

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
REDDICK KANKAKEE	NS	DIESEL FUEL	UNKNOWN	HEAD ON COLLISION- SWITCH LINED IMPROPERLY	2,600 GALS.	UNKNOWN	E	10/10/02
DES PLAINES COOK	UP	DIESEL FUEL	UNKNOWN	HUMAN ERROR	8,000 GALS.	5,000 GALS.	E	10/21/02
VENICE MADISON	GWWR	ALCOHOLIC BEVERAGES	PEKIN, IL.	BROKEN RAIL – LIQUID LINE BROKEN DURING RERAILING	30,174 GALS.	5 GALS.	T	11/6/02
GRANITE CITY MADISON	ALS	DIESEL FUEL	UNKNOWN	RAIL BUCKLED – PUNCTURED FUEL TANK WHEN RERAILING	UNKNOWN	700 GALS.	E	12/28/02
CICERO COOK	BNSF	SODIUM HYDROXIDE, LIQUID	SEATTLE, WA	LOAD SHIFT DUE TO IMPROPER BLOCKING AND BRACING	50 LBS.	20 LBS	COFC	12/30/02

T = Tank

E = Engine

CH = Covered Hopper

R = Refrigerated Car

COFC = Container on Flat Car

TABLE B

Hazardous Materials Physically Involved In Derailment Where No Hazardous Materials Release Occurred

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
THEBES ALEXANDER	UP	LIQUEFIED PETROLEUM GAS PROPYLENE	HARTFORD, IL. WHITING, IN.	DRAWBAR PULLOUT	RESIDUE RESIDUE	NONE	T (2) T (2)	2/14/02
LOCKPORT WILL	BNSF	DIESEL FUEL	UNKNOWN	HUMAN ERROR – SWITCH NOT LATCHED	5,500 GALS.	NONE	E	3/4/02
GALESBURG KNOX	BNSF	DENATURED ALCOHOL	CHICAGO, IL. (2) ARGO, IL. (1)	WORN AND THIN WHEEL FLANGE	RESIDUE	NONE	T	3/21/02
DUPO ST. CLAIR	UP	CHLORINE SODIUM HYDROXIDE	VICKSBURG, MS. PLAQUEMINE, LA.	SPREAD RAIL	LOADS LOAD	NONE	T (2) T (1)	4/12/02
EAST ST. LOUIS ST. CLAIR	UP	METHANOL PETROLEUM DISTILLATES	CHANNELVIEW, TX. BAYTOWN, TX.	HUMAN ERROR	RESIDUE RESIDUE	NONE	T T	6/1/02
EXERMONT ST. CLAIR	CSX	COMBUSTIBLE LIQUID, N.O.S. (1) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3)	LINDEN, NJ. INDIANAPOLIS, IN.	BROKEN SWITCH POINT	RESIDUE 20,452 GALS. 21,010 GALS. 20,096 GALS.	NONE	T T T T	8/14/02

T = Tank TOFC = Trailer on Flat Car

TABLE C**Hazardous Materials Released From Rail Cars Where No Derailment Occurred**

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
SPAULDING COOK	EJE	ETHYL ALCOHOL	MUSCATINE, IA	BOTTOM OUTLET VALVE FLANGE HAD LOOSE BOLTS	194,700 LBS.	1 QUART	T	1/2/02
RIVERDALE COOK	CSX	ANHYDROUS AMMONIA	SUTTON, FL	ALL CLOSURES LESS THAN TOOL TIGHT	33,980 GALS.	< 1 LB.	T	1/3/02
GALESBURG KNOX	BNSF	DIESEL FUEL	UNKNOWN	LOCOMOTIVE FUEL TANK RUTURED	4,000 GALS.	3,000 GALS.	E	1/7/02
BENSENVILLE COOK	CP	METHYLENE DIPHENYL DIISOCYANATE	UNKNOWN	BOTTOM OUTLET CAP OFF	RESIDUE	< 2 GALS.	T	2/3/02
CICERO COOK	BNSF	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	CHICAGO, IL	OUTLET VALVE IN OPEN POSITION	6,000 GALS.	< 1 GAL.	PT	2/5/02
CHICAGO COOK	CSX	RESIN SOLUTION	SECAUCUS, NJ	NO BLOCKING AND BRACING	26 – 5 GAL. PAILS	130 GALS.	COFC	2/8/02
BERKLEY COOK	UP	DIESEL FUEL	UNKNOWN	HOLE IN FUEL TANK	UNKNOWN	1,000 GALS.	E	2/14/02
RIVERDALE COOK	CSX	FERRIC CHLORIDE, SOLUTION	EDGEMOOR, DE	SAFETY VENT DISC RUPTURE	20,828 GALS.	2 GALS.	T	2/16/02

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CH = Covered Hopper

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
SENECA LA SALLE	CSX	PETROLEUM DISTILLATES, N.O.S.	EAST ST. LOUIS, IL	DEFECTIVE MANWAY GASKET	23,551 GALS.	1 GAL.	T	2/18/02
URBANA CHAMPAIGN	CNIC	ETHANOL SOLUTIONS	TUSCOLA, IL	MISALIGNED VACUUM RELIEF DEVICE	29,966 GALS.	2 GALS.	T	2/22/02
CHICAGO COOK	CSX	ETHANOL	PHILADELPHIA, PA	OUTLET VALVE BOLTS LOOSE	40,000 LBS.	20 GALS.	PT	2/23/02
GALESBURG KNOX	BNSF	CORROSIVE SOLIDS, FLAMMABLE, N.O.S.	TROIS PISTOLES, QB	IMPROPER BLOCKING AND BRACING	10 – 1,200 KG	200 LBS.	BOXCAR	2/25/02
RIVERDALE COOK	CSX	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.	SUMTER, SC	ALL MANWAY BOLTS LOOSE	20,625 GALS.	1 QUART	T	2/27/02
TOLONO CHAMPAIGN	NS	DIESEL FUEL	UNKNOWN	RUPTURED FUEL LINE	2,000 GALS.	3 GALS.	E	3/7/02
CHICAGO COOK	CNIC	ALCOHOLS, N.O.S.	WINNEBAGO, MN	CRACK IN WELD OF STUB SILL	29,815 GALS.	75 GALS.	T	3/9/02
CHICAGO COOK	CNIC	PETROLEUM DISTILLATES, N.O.S.	DEER PARK, TX	BOTTOM OUTLET VALVE PARTLY OPEN	26,503 GALS.	5 GALS.	T	3/12/02
HOMEWOOD COOK	CNIC	DIMETHYLAMINE ANHYDROUS	KANSAS CITY, MO	VALVES AND PLUGS NOT TOOL TIGHT	LOAD	VAPOR	T	3/17/02

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Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
NORTHLAKE DUPAGE	UP	SULFURIC ACID, SPENT	PINE BEND, MN	LOOSE BOLT ON EDUCTION LINE	13,095 GALS.	2 GALS.	T	3/21/02
VENICE MADISON	TRRA	HOT COAL TAR DISTILLATES	GRANITE CITY, IL	MANWAY COVER NOT SECURED	20,971 GALS.	VAPOR	T	3/26/02
HOMEWOOD COOK	CNIC	ANHYDROUS AMMONIA	JUDD, IA	PACKING GLAND NUT NOT SECURED	33,651 GALS.	9 GALS.	T	3/29/02
DECATUR MACON	NS	XYLENES	NITRO, WV	BOTTOM OUTLET CAP LOOSE	29,288 GALS.	1 GAL.	T	4/1/02
CHICAGO COOK	CP	FLUOROSILICIC ACID, CORROSIVE	GREEN BAY, FL	BROKEN PIPE ON SAFETY VENT ASSEMBLY	22,000 GALS.	< 5 GALS.	T	4/15/02
DUPO ST. CLAIR	UP	ALCOHOLS, N.O.S.	ST. LOUIS, MO	BOTTOM OUTLET VALVE NOT SECURED	29,978 GALS.	1 QUART	T	4/15/02
GALESBURG KNOX	BNSF	ELEVATED TEMPERATURE LIQUID, N.O.S.	LAUREL, MT	INTERNAL HEATER COIL BREACH	23,604 GALS.	1 QUART	T	4/26/02
BALDWIN RANDOLPH	CNIC	DIESEL FUEL	UNKNOWN	BROKEN FUEL LINE	UNKNOWN	< 1,500 GALS	E	4/27/02
CHICAGO COOK	CRL	CRUDE ZINC OXIDE	TUNIS, NC	BOTTOM DOOR NOT SECURED	190,000 LBS.	25,000 LBS.	CH	4/30/02

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Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
HOMER CHAMPAIGN	NS	DIESEL FUEL	UNKNOWN	FUEL LINE LEAK	4,400 GALS.	< 5 GALS.	E	5/3/02
EAST ST. LOUIS ST. CLAIR	UP	PETROLEUM DISTILLATES, N.O.S.	BAYTOWN, TX	BOTTOM OUTLET VALVE BOLTS LOOSE	23,548 GALS.	2 QUARTS	T	5/3/02
GALESBURG KNOX	BNSF	DIESEL FUEL	UNKNOWN	MECHANICAL PROBLEM	UNKNOWN	50 GALS.	E	5/8/02
EAST ST. LOUIS ST. CLAIR	GWR	ETHYL ACETATE	TRENTON, MI	BOTTOM OUTLET VALVE WAS OPEN AND TWO BOLTS MISSING	30,118 GALS.	< 1 GAL.	T	5/19/02
CHICAGO COOK	NS	EXTRACT, FLAVORING, LIQUID	SEATTLE, WA	IMPROPER BLOCKING AND BRACING	55 GALS.	< 1 GAL.	COFC	5/21/02
RIVERDALE COOK	CSX	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.	NORTHFIELD, IL	DEFECTIVE MANWAY GASKET	23,589 GALS.	1 QUART	T	5/23/02
VENICE MADISON	TRRA	DIESEL FUEL	UNKNOWN	PUNCTURED FUEL TANK	UNKNOWN	500 GALS.	E	5/26/02
DOLTON COOK	UP	ARGON, REFRIGERATED LIQUID	BAYPORT, TX	ROAD VALVE CLOSED NOT LETTING CAR VENT NORMALLY	175,000 LBS.	VAPOR	T	6/3/02
CHICAGO COOK	CNIC	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	PLAQUEMINE, LA	LIQUID INDUCTION PLUG NOT SECURED	23,595 GALS.	.5 GAL.	T	6/6/02

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Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
VILLA PARK DUPAGE	CNIC	DIESEL FUEL	UNKNOWN	PUNCTURED FUEL TANK	3,000 GALS.	1,300 GALS.	E	6/8/02
EAST ST. LOUIS ST. CLAIR	UP	METHANOL	CHANNELVIEW, TX	LOOSE LIQUID VALVE	29,962 GALS.	5 GALS.	T	6/9/02
RIVERDALE COOK	CSX	FLAMMABLE LIQUIDS, N.O.S.	FORT FRANCES, ONT	BOTTOM OUTLET VALVE DEFECTIVE	20,846 GALS.	< 1 LB.	T	6/18/02
CHICAGO COOK	BNSF	ALKYLPHENOLS, LIQUID, N.O.S.	AYER, MA	IMPROPER BLOCKING AND BRACING	55 GALS.	< 1 GAL.	COFC	6/27/02
DECATUR MACON	CNIC	ANHYDROUS AMMONIA	COURTRIGHT, ONT	VAPOR VALVE PLUG NOT SECURED	33,969 GALS.	VAPOR	T	7/2/02
ROCHELLE OGLE	BNSF	DIESEL FUEL	MINOT, ND	VAPOR VALVE MISSING VALVE STEM	25,623 GALS.	VAPOR	T	7/13/02
DANVILLE VERMILION	CSX	SODIUM HYDROXIDE SOLUTION	LEMONT, IL	SAFETY VENT DISC RUPTURE	16,010 GALS.	1 GAL.	T	7/15/02
EAST ST. LOUIS ST. CLAIR	CNIC	RESIN SOLUTION	VANCOUVER, BC	IMPROPER BLOCKING AND BRACING	55 GALS.	5 GALS.	COFC	7/24/02
EAST ST. LOUIS ST. CLAIR	CNIC	RESIN SOLUTION	VANCOUVER, BC	LOOSE BUNG	55 GALS.	1 PINT	COFC	7/26/02

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Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
SUGAR GROVE KANE	BNSF	DIESEL FUEL	UNKNOWN	CROSSING ACCIDENT	4,000 GALS.	150 GALS.	E	8/1/02
EAST ST. LOUIS ST. CLAIR	UP	DIESEL FUEL	UNKNOWN	FUEL TANK OVERFILLED	UNKNOWN	150 GALS.	E	8/5/02
DOLTON COOK	UP	DICYCLOPENTADIENE	GALENA PARK, TX	INTERNAL HEATER COIL CAP NOT SECURED	23,867 GALS.	1 PINT	T	8/5/02
SCHILLER PARK COOK	CP	ISOPHORONE DIISOCYANATE	MONTREAL, QB	IMPROPER BLOCKING AND BRACING	2 – 50 GAL. DRUMS	50 GALS.	COFC	8/6/02
CENTRALIA MARION	NS	DIESEL FUEL	UNKNOWN	FUEL PUMP FAILURE	4,000 GALS.	300 GALS.	E	8/9/02
CHICAGO COOK	CNIC	HYDROCHLORIC ACID	GEISMAR, LA	SAFETY VENT DISC RUPTURE	20,498 GALS.	1.5 GALS.	T	8/11/02
CHICAGO COOK	BNSF	DIESEL FUEL	UNKNOWN	MECHANICAL FAILURE OF VACUUM SHUT OFF	2,200 GALS.	350 GALS.	E	8/28/02
CHICAGO COOK	BNSF	TOXIC XYLENES	CROXTON, NJ	IMPROPER BLOCKING AND BRACING	5 GALS.	¾ GALS.	COFC	8/29/02
EAST ST. LOUIS ST. CLAIR	UP	ALCOHOLS, N.O.S.	ATCHISON, KS	BOTTOM OUTLET VALVE NOT SECURED	18,696 GALS.	1 QUART	T	9/4/02

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Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
CHICAGO COOK	CNIC	PROPANETHIOLS	INDIAN ORCHARD, MA	MANWAY GASKET MISALIGNED	21,051 GALS.	5 GALS.	T	9/5/02
HARVEY COOK	CNIC	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.	MILLSDALE, IL	MANWAY COVER NOT SECURED	23,457 GALS.	3.5 GALS.	T	9/9/02
NORTHLAKE DUPAGE	UP	ADHESIVES	RICHMOND, VA	IMPROPER BLOCKING AND BRACING	5 GALS.	1 GAL.	COFC	9/16/02
EAST ST. LOUIS ST. CLAIR	GWWR	SULFURIC ACID	SAUGET, IL	MANWAY COVER NOT SECURED	13,697 GALS.	1 QUART	T	9/24/02
BERKELEY COOK	UP	ALCOHOLS, N.O.S.	PEKIN, IL	MANWAY COVER NOT SECURED	29,995 GALS.	1 GAL.	T	9/26/02
EAST HAZEL CREST COOK	CNIC	SULFURIC ACID	SUDBURY, ONT	MANWAY GASKET MISALIGNED	13,923 GALS.	1.5 GALS	T	10/1/02
HODKINS COOK	BNSF	DIESEL FUEL	FRESNO, CA	TRUCK PULLED TRAILER WHILE STAND DOWN PUNCTURING TANK	55 GALS.	55 GALS.	TOFC	10/2/02
EAST ST. LOUIS ST. CLAIR	UP	CALCIUM CARBIDE	CALVERT CITY, KY	TARP BLEW OFF AND RAIN CAUSED CHEMICAL REACTION	138,000 LBS.	200 LBS.	COFC	10/3/02
CHICAGO COOK	CNIC	PETROLEUM DISTILLATES, N.O.S.	MEMPHIS, TN	OUTLET VALVE AND CAP NOT SECURED	29,929 GALS.	3.5 GALS.	T	10/3/02

N.O.S. = Not Otherwise Specified T = Tank E = Engine TOFC = Trailer on Flat Car COFC = Container on Flat Car PT = Portable Tank
CH = Covered Hopper

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
E. HAZEL CREST COOK	CNIC	SULFURIC ACID	SUDBURY, ONT	OVERFILLED – SAFETY VENT DISC RUPTURE	13,923 GALS.	2 GALS.	T	10/3/02
SIMPSON WABASH	NS	DIESEL FUEL	UNKNOWN	FAILED INJECTOR	5,000 GALS.	10 GALS.	E	10/12/02
CHICAGO COOK	CNIC	ALCOHOLS, N.O.S.	WINNEBAGO, MN	MANWAY COVER NOT SECURED	29,949 GALS.	1.5 GALS.	T	10/13/02
CHICAGO COOK	CNIC	ALCOHOLS, N.O.S.	WINNEBAGO, MN	MANWAY COVER NOT SECURED	30,057 GALS.	1.5 GALS.	T	10/13/02
E. HAZEL CREST COOK	CNIC	STYRENE MONOMER, INHIBITED	SCOTFORD, AB	MANWAY GASKET NOT APPLIED PROPERLY	25,272 GALS.	.25 GAL.	T	10/14/02
SENECA LASALLE	CSX	DIESEL FUEL	UNKNOWN	FUEL TANK CRACK	2,400 GALS.	1 GAL.	E	10/15/02
BENSONVILLE COOK	CP	PETROLEUM DISTILLATES, N.O.S.	GALENA PARK, TX	INTERNAL STEAM PIPE CORRODED	20,000 GALS.	15 GALS.	T	11/19/02
HODGKINS COOK	BNSF	DIESEL FUEL	UNKNOWN	MECHANICAL FAILURE	2,000 GALS.	350 GALS.	E	11/23/02
URBANA CHAMPAIGN	CNIC	HYDROCHLORIC ACID	CALVERT CITY, KY	SAFETY VENT DISC RUPTURED	20,413 GALS.	1 GAL.	T	11/30/02

N.O.S. = Not Otherwise Specified T = Tank E = Engine TOFC = Trailer on Flat Car COFC = Container on Flat Car PT = Portable Tank CH = Covered Hopper

Location	Railroad Involved	Substance Involved	Point of Origin	Suspected Reason for Incident	Amounts Involved	Amounts Released	Type of Equip.	Date
CHICAGO COOK	CNIC	ETHYL ALCOHOL SOLUTION	MUSCATINE, IA	ONE BOLT LOOSE ON BOTTOM OUTLET FLANGE	30,060 GALS.	2 GALS.	T	12/9/02
CHICAGO COOK	CNIC	N-PROPYL ACETATE	KINGSPORT, TN	BOTTOM OUTLET HANDLE SAFETY CLIP NOT SECURED AND VALVE OPEN ¼ TURN	20,804 GALS.	5 GALS.	T	12/18/02

N.O.S. = Not Otherwise Specified T = Tank E = Engine TOFC = Trailer on Flat Car COFC = Container on Flat Car PT = Portable Tank
CH = Covered Hopper

RAILROAD COMPANIES CITED IN THE PRECEDING TABLES

BNSF	The Burlington Northern and Santa Fe Railway Company
CNIC	Canadian National/Illinois Central Railroad Company
CP	Canadian Pacific
CRL	Chicago Rail Link
CSX	CSX Transportation, Inc.
EJE	Elgin, Joliet & Eastern Railway Co.
GWWR	Gateway Western Railway Company
IAIS	Iowa Interstate Railroad, Ltd.
IHB	Indiana Harbor Belt Railroad Co.
KBSR	Kankakee, Beaverville and Southern Railroad Company
NS	Norfolk Southern Railway Company
TRRA	Terminal Railroad Association of St. Louis
UP	Union Pacific Railroad Company
WC	Wisconsin Central Railroad

LIST OF ATTACHMENTS

Attachment 1: Recognizing and Identifying Hazardous Materials

Attachment 2: Sample Waybill

Attachment 3: Sample Consist

Attachment 4: Emergency Response Information

Attachment 5: Sample Bill of Lading

Attachment 6: Top 125 Hazardous Commodity Movements by Tank Car Origination

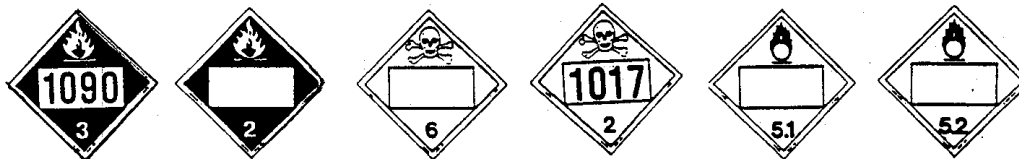
RECOGNIZING AND IDENTIFYING HAZARDOUS MATERIALS

PLACARD AND LABEL NOTES

Placards are diamond shaped — 10¾ inches square. The placard provides recognition information in a number of ways:

1. the colored background;
2. the symbol at the top;
3. The United Nations hazard class number at the bottom; and
4. the hazard class wording or the identification number in the center.
 - a. Color:
 - orange indicates explosive;
 - red indicates flammable;
 - green indicates nonflammable;
 - yellow indicates oxidizing material;
 - white indicates poisonous material;
 - white with vertical red stripes indicates flammable solid;
 - yellow over white indicates radioactive material; and
 - white over black indicates corrosive material.
 - b. Symbols:
 - the bursting ball symbol indicates explosive;
 - the flame symbol indicates flammable;
 - the slash W (W) indicates dangerous when wet;
 - the skull and crossbones indicates poisonous material;
 - the circle with the flame indicates oxidizing material;
 - the cylinder indicates nonflammable gas;
 - the propeller indicates radioactive;
 - the test tube/hand/metal symbol indicates corrosive; and
 - the word Empty indicates that the product has been removed, but a harmful residue may still be present.
 - c. United Nations Hazard Class Numbers:
 - 1 — Explosives
 - 2 — Gases
 - 3 — Flammable Liquids
 - 4 — Flammable Solids
 - 5 — Oxidizing Substances
 - 6 — Poisonous and Infectious Substances
 - 7 — Radioactive Substances
 - 8 — Corrosive Substances
 - 9 — Miscellaneous Dangerous Substances
 - d. Hazard Class or Identification Number

Below are some examples of placards.



SAMPLE WAYBILL

Attachment 2
Page 1 of 2

* *

RTMX 21065

T/C

#123456

03 06 01

St. Louis

MO.

1212 St. Louis, MO.
12 S. Street
John Doe Inc.

John Doe Inc.
Chicago, IL.

1/TC

Residue: Last Contained
Acetone, 3, UN 1090, II, RQ (Acetone)

STCC 4908105

CHEMTREC EMERGENCY CONTACT 1-800-424-9300

SAMPLE WAYBILL

Attachment 2
Page 2 of 2

* *

GAPX 6075

T/C

#123457

03 06 01

St. Louis

MO.

1212 St. Louis, MO.
12 S. Street
John Doe Inc.

John Doe Inc.
Chicago, IL.

1/TC

Phenol, Molten, 6.1, UN 2312, II,RQ (Phenol)

20,000 GAL.

STCC 4921220

CHEMTREC EMERGENCY CONTACT 1-800-424-9300

SAMPLE CONSIST

ATTACHMENT 3

TRAIN/JOB	CONDUCTOR			
NAME	CATAGORY—SECONDARY MANIFEST			TYPE—THRU
ENGINE - IDENT	HORSEPOWER	LENGTH	WEIGHT	STATUS
6142	3000	69	200E	
1001	3000	74	200E	
ENG 1005	3000	74	200E	
TOTAL	9000 HP	217 FEET	600 TONS	

TRAIN/JOB

SEQ EQPMNT ID KND GWT COMDTY DESTN ZTS/CARR NXBLK CITY/STATE CONSIGNEE
BLOCK --

1	BJOX	278	LC4T	131	CORN	7MT018		214H	MEMPHIS	TN	
											NOTIFY SHIPPER IF DELAYED IF BAD ORDERED NOTIFY SHIPPER
2	BJOX	109	LC4T	131	CORN	7MT018		214H	MEMPHIS	TN	
											NOTIFY SHIPPER IF DELAYED IF BAD ORDERED NOTIFY SHIPPER
3	BJOX	110	LC4T	131	CORN	7MT018		214H	MEMPHIS	TN	
											NOTIFY SHIPPER IF DELAYED IF BAD ORDERED NOTIFY SHIPPER
4	CRDX	7227	LC4T	131	CORN	7MT018		214H	MEMPHIS	TN	
											NOTIFY SHIPPER IF DELAYED IF BAD ORDERED NOTIFY SHIPPER
5	RTMX	21065	ET29	35		12ZA003	CR		CHICAGO	IL	
											R50 SPEED RESTRICTED CAR

1/TK

RESIDUE: LAST CONTAINED

ACETONE

3

EMERGENCY CONTACT:

1-800-424-9300

UN 1090

II

RQ (ACETONE)
HAZMAT STCC = 4908105

6 GAPX 6075 LT19 36 POIS B 12ZA003 00 BRC CHICAGO IL

R50 SPEED RESTRICTED CAR

1/TC

PHENOL, MOLTEN

6.1

UN 2312

EMERGENCY CONTACT:

1-800-424-9300

II

RQ (PHENOL)
HAZMAT STCC = 4921220

EMERGENCY RESPONSE INFORMATION

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- **HIGHLY FLAMMABLE:** Will be easily ignited by heat, sparks or flames.
- Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- Many liquids are lighter than water.

HEALTH

- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- **CALL** Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

- Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fires

- Dry chemical, CO₂, water spray or alcohol-resistant foam.

Large Fires

- Water spray, fog or alcohol-resistant foam.
- Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor; but may not prevent ignition in closed spaces.

FIRST AID

- Move victim to fresh air. • Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Wash skin with soap and water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

POTENTIAL HAZARDS

HEALTH

- **TOXIC**; inhalation, ingestion, or skin contact with material may cause severe injury or death.
- Contact with molten substance may cause severe burns to skin and eyes.
- Avoid any skin contact.
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- Combustible material: may burn but does not ignite readily.
- When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated.
- Runoff may pollute waterways.
- Substance may be transported in a molten form.

PUBLIC SAFETY

- **CALL** Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the **inside back cover**.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations **ONLY**; it is not effective in spill situations.

EVACUATION

Spill

- See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

- Dry chemical, CO₂ or water spray.

Large Fires

- Dry chemical, CO₂, alcohol-resistant foam or water spray.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.

FIRST AID

- Move victim to fresh air. • Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

***** STRAIGHT BILL OF LADING — SHORT FORM — Original — Not Negotiable

Attachment 5
Page 1 of 2

* *

(SAMPLE) Company

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.										
CUST. NUMBER 5	S.D. NUMBER 7	CAR OR TRAILER INITIAL AND NUMBER 15 RTMX 21065			DATE SHIPPED 8	MC DO EE	ROUTE CODE 5	SHP. PLT. 1	the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination.	
NET WEIGHT 8	GROSS WEIGHT 8	NO. OF UNIT 4	UNIT CODE 3	PROD. CODE 3	PROD. PLT. 2	It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.				
CONSIGNEE John Doe, Inc.					DESTINATION Chicago, IL	STATE OF IL	COUNTY OF Cook			
FROM John Doe, Inc. Permanent Postoffice Address of Shipper St. Louis, MO					AT					
ROUTE ABC Railroad					DELIVERING CARRIER ABC	AGENT ABC PER				
NO. PKGS.	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS						WEIGHT (Sub. to Corr.)	RATE		
1 T/C	Residue: Last Contained Acetone 3 UN 1090 II RQ (Acetone) EMERGENCY CONTACT 1-800-424-9300 HAZ MAT STCC = 4908105						Residue			
This shipment is correctly described: CORRECT WEIGHT IS subject to verification by the Eastern, Southern or Western Weighing and Inspection Bureau, whichever applicable, 18943 John Doe, Inc. SHIPPER			LBS. THE TOTAL WEIGHT OF THE PALLETS USED ON THE SHIPMENT IS SHOWN ABOVE.			TRANSPORTATION FREE PER ABOVE				
PURCHASE ORDER NO.			SEAL NUMBERS			THIS CAR LEASED TO: John Doe, Inc.		LIGHT-TARE WEIGHT IS		
IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE "TO BE PREPAID" Prepaid			Subject to section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.			SHIPPER John Doe, Inc. PER				
SIGNATURE OF CONSIGNOR										

PLANT COPY

* *

STRAIGHT BILL OF LADING — SHORT FORM — Original — Not Negotiable Attachment 5

Page 2 of 2

Company

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the receipt by the carrier of the property described in the Original Bill of Lading.										
CUST. NUMBER 5	S.D. NUMBER 7	CAR OR TRAILER INITIAL AND NUMBER 15			DATE SHIPPED 8	MC CODE EE	ROUTE CODE 5	SHP. PLT. 1		the property described below, in apparent good order, except as noted (contents and condition of contents or packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date hereof, if this is a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment. Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.
GAPX 6075										
NET WEIGHT 8	GROSS WEIGHT 8	NO. OF UNIT 4	UNIT CODE 3	PROD. CODE 3	PROD. PLT. 2					
CONSIGNEE John Doe, Inc.					DESTINATION Chicago, IL		STATE OF Cook			COUNTY OF
FROM Permanent Postoffice Address of Shipper John Doe, Inc. St. Louis, MO					AT					
ROUTE ABC Railroad					DELIVERING CARRIER ABC		AGENT ABC			
					PER					
NO. PKGS.	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS						WEIGHT (Sub. to Corr.)	RATE		
1 T/C	Phenol, Molten 6.1 UN 2312 II RQ (Phenol) EMERGENCY CONTACT 1-800-424-9300 HAZ MAT STCC = 4921220						20,000 Gals.			
This shipment is correctly described: CORRECT WEIGHT IS LBS. subject to verification by the Eastern, Southern or Western Weighing and Inspection Bureau, whichever applicable, 18943 John Doe, Inc. SHIPPER			THE TOTAL WEIGHT OF THE PALLETS USED ON THE SHIPMENT IS SHOWN ABOVE.			TRANSPORTATION FREE PER ABOVE				
PURCHASE ORDER NO.			SEAL NUMBERS		THIS CAR LEASED TO: John Doe, Inc.			LIGHT-TARE WEIGHT IS		
IF CHARGES ARE TO BE PREPAID, WRITE OR STAMP HERE "TO BE PREPAID" Prepaid			Subject to section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.			SHIPPER John Doe, Inc. PER				
			SIGNATURE OF CONSIGNOR							

PLANT COPY

TOP 125 HAZARDOUS COMMODITY MOVEMENTS
BY TANK CAR ORIGINATION

RANK	COMMODITY NAME	**HAZ CLASS
1	Freight All Kinds - Hazardous Materials	
2	Freight All Kinds - Hazardous Materials	
3	Sodium Hydroxide Solution	C
4	Petroleum Gases, Liquefied	CG
5	Sulfuric Acid	C
6	Elevated Temperature Liquid, N.O.S.	ORM
7	Ammonia, Anhydrous, Liquefied	CG
8	Chlorine	CG
9	Sulfur, Molten	ORM
10	Sulfur, Molten	FS
11	Vinyl Chloride, Inhibited	CG
12	Propane	CG
13	Fuel Oil	FL
14	Denatured Alcohol	FL
15	Methanol	FL
16	Gasoline	FL
17	Phosphoric Acid	C
18	Hydrochloric Acid	C
19	Styrene Monomer, Inhibited	FL
20	Carbon Dioxide, Refrigerated Liquid	CG
21	Ammonium Nitrate	O
22	Gasoline	FL
23	Sodium Chlorate	O
24	Diesel Fuel	CL
25	Butane	CG
26	Petroleum Crude Oil	FL
27	Phenol, Molten	P
28	Fuel Oil	FL
29	Butadienes, Inhibited	CG
30	Fuel Oil	CL
31	Ethylene Oxide	CG
32	Methyl Tert Butyl Ether	FL
33	Fuel, Aviation, Turbine Engine	FL

RANK	COMMODITY NAME	**HAZ CLASS
34	Isobutane	CG
35	Environ. Hazardous Substances, Liquid	ORM
36	Environ. Hazardous Substances, Liquid	ORM
37	Environ. Hazardous Substances, Liquid	ORM
38	Propylene	CG
39	Propylene Oxide	FL
40	Vinyl Acetate, Inhibited	FL
41	Environ. Hazardous Substances, Solid, N.O.S.	ORM
42	Environ. Hazardous Substances, Solid, N.O.S.	ORM
43	Petroleum Crude Oil	CL
44	Xylenes	FL
45	Other Regulated Substances, Liquid	ORM
46	Cyclohexane	FL
47	Hydrogen Peroxide, Stabilized	O
48	Hexamethylenediamine, Solid	C
49	Acrylic Acid, Inhibited	C
50	Sulfuric Acid, Spent	C
51	Methyl Methacrylate Monomer, Inhibited	FL
52	Environ. Hazardous Substances, Solid, N.O.S.	ORM
53	Potassium Hydroxide, Solution	C
54	Toluene Diisocyanate	P
55	Phosphoric Acid	C
56	Acetic Acid, Glacial	C
57	Formaldehyde Solutions	C
58	Butyl Acrylates, Inhibited	FL
59	Environ. Hazardous Substances, Liquid, N.O.S.	ORM
60	Petroleum Distillates, N.O.S.	CL
61	Acetone	FL
62	Compounds, Cleaning Liquid	FL
63	Toluene	FL
64	Environ. Hazardous Substances, Solid, N.O.S.	ORM
65	Ammonium Nitrate Fertilizers	O
66	Ethanol	FL
67	White Asbestos	ORM
68	Elevated Temperature Liquid, N.O.S.	ORM

RANK	COMMODITY NAME	**HAZ CLASS
69	Liquefied Petroleum Gas	CG
70	Acrylonitrile, Inhibited	FL
71	Liquefied Petroleum Gas	CG
72	Petroleum Distillates, N.O.S.	FL
73	Environ. Hazardous Substances, Liquid	ORM
74	Hazardous Waste, Solid, N.O.S.	ORM
75	Benzene	FL
76	Fuel Oil	FL
77	Ethylene Dichloride	FL
78	Hydrogen Flouride, Anhydrous	C
79	Liquefied Petroleum Gas	CG
80	Sulfer Dioxide	CG
81	Elevated Temperature Liquid, N.O.S.	ORM
82	Elevated Temperature Liquid, Flammable, N.O.S.	FL
83	Elevated Temperature Liquid, N.O.S.	ORM
84	Diesel Fuel	CL
85	Waste Flammable Liquids	FL
86	Other Regulated Substances, Liquid, N.O.S.	ORM
87	Isobutane	CG
88	Isopropanol	FL
89	Sodium Chlorate, Aqueous Solution	O
90	Other Regulated Substances, N.O.S.	ORM
91	Phosphorus, White, Dry	FS
92	Ferrous Chloride, Solution	C
93	Elevated Temperature Liquid, N.O.S.	ORM
94	Methanol	FL
95	Petroleum Distillates, N.O.S.	FL
96	Elevated Temperature Liquid, N.O.S.	ORM
97	Propylene	CG
98	Flammable Liquids, N.O.S.	FL
99	Environ. Hazardous Substances, Solid, N.O.S.	ORM
100	Butanols	FL
101	Nitric Acid	C
102	Polymeric Beads, Expandable	ORM
103	Combustible Liquids, N.O.S.	CL

RANK	COMMODITY NAME	**HAZ CLASS
104	Acetic Anhydride	C
105	Fuel Oil	CL
106	Liquefied Petroleum Gas	CG
107	Fuel Oil	CL
108	Butylene	CG
109	Ferric Chloride, Solution	C
110	Freight All Kinds - Hazardous Materials	
111	Acetaldehyde	FL
112	Other Regulated Substances, Liquid	ORM
113	Batteries, Wet, Filled with Acid	C
114	Maleic Anhydride	C
115	Hydrocarbons, Liquid, N.O.S.	FL
116	Sulfuric Acid, Fuming	C
117	Ammonium Nitrate, Liquid	O
118	Methyl Chloride	CG
119	Alcoholic Beverages	FL
120	Elevated Temperature Liquid, N.O.S.	ORM
121	Combustible Liquid, N.O.S.	CL
122	Ethyl Acetate	FL
123	Ethyl Acrylate, Inhibited	FL
124	Kerosene	FL
125	Other Regulated Substances, Liquid, N.O.S.	ORM

**CG - Compressed Gas
 FL - Flammable Liquid
 FS - Flammable Solid
 CL - Combustible Liquid
 O - Oxidizer
 P - Poison
 C - Corrosive
 ORM - Other Regulated Material