U.S Department of Transportation
Research and Special Programs Administration

Hazardous Materials Incident Report

Form Approval OMB No. 3137-0039

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 2137-0039. The filling out of this information is mandatory and will take 96 minutes to complete.

INSTRUCTIONS

Submit this report to the Information Systems Manager, U.S. Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Office of Hazardous Materials Safety, DHM-63, Washington, D.C. 20590-0001. If space provided for any item is inadequate, use a separate sheet of paper, identifying the entry number being completed. Copies of this form and instructions can be obtained from the Office of Hazardous Materials Website at http://hazmat.dot.gov. If you have any questions, you can contact the Hazardous Materials Information Center at 1-800-HMR-4922 (1-800-467-4922) or online at http://hazmat.dot.gov.

PART I - REPORT TYPE

1. Incident Id: X-2024071796
2. This is to report: A

PART II - GENERAL INCIDENT INFORMATION

3. Date of Incident:
06/27/2024

4. Time of Incident (use 24-hour time):
05:10

5. Enter National Response Center Report Number (if applicable):

6. If you submitted a report to another Federal DOT agency, enter the agency and report number:

7. Location of Incident:
City: WATERLOO
County: BLACK HAWK
State: IA
Zip Code: (if known): 50703
Street Address/Mile Marker/Yard Name/Airport/Body of Water/River Mile:
402 E 4th St.

8. Mode of Transportation: Rail

9. Transportation Phase: In Transit

10. Carrier/Reporter:
Name: Chicago Central and Pacific Railroad
Street: 17650 SOUTH ASHLAND AVE
City: Homewood
State: IL
Zip Code: 60430
Federal DOT Id Number:
Hazmat Registration Number:

11. Shipper/Offeror:
Name: Poet Biorefining-Shell Rock
Street: 3070 212th St
City: SHELL ROCK
State: IA
Zip Code: 50670
Waybill/Shipping Paper: 088659
Hazmat Registration Number:

12. Origin (if different from shipper address)
Street:
City:
State:
Zip Code:

13. Destination:
Street:
City:
State:
Zip Code:

14. Proper Shipping Name of Hazardous Material: ALCOHOLS, N.O.S.

15. Technical/Trade Name: ALCOHOLS, N.O.S.

16. Hazardous Class/Division: Flammable - Combustible Liquid

17. Identification Number: (E.g. UN2764, NA 2020) UN1987

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18. Packing Group: (if applicable) II

19. Quantity Released: (Include Measurement Units) 1 Liquid - Gallon

20. Was the material shipped as a hazardous waste? False
If yes, provide the EPA Manifest Number:

21. Is this a Toxic by Inhalation (TIH) material? False
If yes, provide the Hazard Zone:

22. Was the material shipped under an Exemption, Approval, or Competent Authority Certificate? False
If yes, provide the Exemption, Approval, or CA number:

23. Was this an undeclared hazardous materials shipment? False

PART III - PACKAGING INFORMATION

24. Check Packaging Type (check only one - if more than one, list type of packaging, copy Part III, and complete for each type:
Tank Car

25. See instructions and enter the appropriate failure codes found at the end of the instructions. Be sure to enter the codes from the list that corresponds to the particular packaging type checked above. Enter the number of codes as appropriate to describe the incident.
Enter the most important failure point in line 1. If there are more than two failure points, provide in this format in part VI.

What Failed: - 106-Bottom Outlet Valve
How Failed: - 308-Leaked
Causes of Failure: - Improper Preparation for Transportation

26a. Provide the packaging identification markings, if available.
Identification Markings: 117R100W
(Examples: 1A1/Y1.4/150/92/USA/RB/93/RL, UN31H1/Y0493/USA/M9339/10800/1200, DOT - 105A - 100W (RAIL), DOT 406 (HIGHWAY), DOT 51, DOT 3-A)

26b. For Non-bulk, IBC, or non-specification packaging, if identification markings are incomplete or unavailable, see instructions and complete the following:

Single Package or Outer Packaging:	**Single Package or Inner Packaging (if any):**
Packaging Type:	Packaging Type:
Material of Construction:	Material of Construction:
Head Type (Drums only):	

27. Describe the package capacity and the quantity:

Single Package or Outer Packaging:		**Single Package or Inner Packaging (if any):**	
Package Capacity:	30360 Liquid - Gallon	Package Capacity:	
Amount in Package:	188767 Liquid - Pound	Amount in Package:	
Number in Shipment:	1	Number in Shipment:	
Number Failed:	1	Number Failed:	

28. Provide packaging construction and test information, as appropriate:

Manufacturer:	UTLX	Manufacture Date:	08/01/2007
Serial Number:	UTLX209759	Last Test Date:	01/01/2017
Material of Construction:	128B-AAR TC128, Gr. B (if Tank Car, CTMV, Portable Tank, or Cylinder)		
Design Pressure:	100 PSI (if Tank Car, CTMV, Portable Tank)		
Shell Thickness:	0.44 inch (if Tank Car, CTMV, Portable Tank)		
Head Thickness:	0.47 inch (if Tank Car, CTMV)		
Service Pressure:	(if Cylinder)		

If valve or device failed:
Type:
Model:
Manufacturer:

29. If the packaging is for Radioactive Materials, complete the following:
Packaging Category:
Packaging Certification:
Certification Number:
Nuclide(s) Present: Transport Index:
Activity:
Critical Safety Index:

PART IV – CONSEQUENCES

30. Result of Incident (check all that apply):

- Spillage: True
- Explosion:
- Vapor (Gas) Dispersion:
- No Release: False
- Fire:
- Material Entered Waterway/Storm Sewer:
- Environmental Damage:

31. Emergency Response: The following entities responded to the incident: (Check all that apply)

Fire/EMS Report #:
Police Report #:
In-house cleanup: True
Other Cleanup:

32. Damages Was the total damage cost more than $500? True

If yes, enter the following information: (If no, go to question 33.)

Material Loss:	$ 0.00
Carrier Damage:	$ 0.00
Property Damage:	$ 0.00
Response Cost:	$ 18,000.00
Remediation/Cleanup Cost:	$ 0.00

(See damage definitions in the instructions)

33a. Did the hazardous material cause or contribute to a human fatality? False

If yes, enter the number of fatalities resulting from the hazardous material:

Employees:	
Responders:	
General Public:	

33b. Were there human fatalities that did not result from the hazardous material? False

If yes, how many?

34. Did the hazardous material cause or contribute to personal Injury? False

If yes, enter the number of injuries resulting from the hazardous material:

Hospitalized (Admitted Only):

Employees:	
Responders:	
General Public:	

Non-Hospitalized:
(e.g.: On site first aid or Emergency Room observation and release)

Employees:	
Responders:	
General Public:	

35. Did the hazardous material cause or contribute to an evacuation? False

If yes, provide the following information:

Total number of general public evacuated:	
Total number of employees evacuated:	
Total evacuated:	0
Duration of the evacuation:	

36. Was a major transportation artery or facility closed? False

If yes, how many?

37. Was the material involved in a crash or derailment? False

If yes, provide the following information:

Estimated speed (mph):	
Weather conditions:	
Vehicle overturned?	
Vehicle left roadway/track?	

PART V - AIR INCIDENT INFORMATION (please refer to S 175.31 to report a discrepancy for air shipments)

38. Was the shipment on a passenger aircraft?

If yes, was it tendered as cargo, or as passenger baggage?

39. Where did the incident occur (if unknown, check the appropriate box for the location where the incident was discovered)?

40. What phase(s) had the shipment already undergone prior to the incident? (Check all that apply)

- Shipment had not been transported
- Transported by air (first flight)
- Transport by air (subsequent flights)
- Initial transport by highway to cargo facility
- Transfer at sort center/cargo facility

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PART VI - DESCRIPTION OF EVENTS & PACKAGE FAILURE

- Describe the sequence of events that led to the incident and the actions taken at the time it was discovered. Describe the package failure, including the size and location of holes, cracks, etc. Photographs and diagrams should be submitted if needed for clarification. Estimate the duration of the release, if possible. Describe what was done to mitigate the effects of the release. Continue on additional sheets if necessary.

Describe:

On Thursday, June 27, 2024, a CN mechanical performing an inspection observed that the bottom outlet valve appeared to be leaking from tank car # UTLX 209759 along with a strong Ethanol type odor in the area. The employee notified the Waterloo Yard Master who in turn notified the CN Dangerous Goods Team. The tank car was set out to an isolation track (WA90) for inspection by a CN emergency response contractor. A CN emergency response contractor was dispatched to the location for mitigation. The contractor performed an inspection of the tank car and found the bottom outlet valve to be leaking from the threads of the bottom outlet valve cap. It was determined that there was a failure in the sealing surface of the valve seat to include a defective gasket. (The BOV cap was found to be less than tool tight and the BOV in the closed position and pinned upon initial inspection). CN emergency response contractor did observe cable seal to be correctly in place. The BOV cap was removed, and it was observed to be leaking past the closed ball. The BOV valve handle was cycled several times to the open and closed position to free any debris that may have been trapped in the BOV sealing surface potentially causing the leak. The BOV cap was then removed and observed for 20 minutes to ensure there was no further leakage from the valve. It was noted that the BOV cap gasket was deformed and was replaced. The bottom outlet valve cap was then re-installed and tightened with a 36" pipe wrench. Upon tightening the BOV cap, CN emergency response contractor proceeded to place new cable seals on the BOV / Cap.

PART VII - RECOMMENDATIONS/ACTIONS TAKEN TO PREVENT RECURRENCE

- Where you are able to do so, suggest or describe changes (such as additional training, use of better packaging, or improved operating procedures) to help prevent recurrence. Provide recommendations for improvement to hazardous materials transportation beyond the control of your individual company. Continue on additional sheets if necessary.

Describe:

No comments provided.

PART VIII – CONTACT INFORMATION

Contact's Name:	Mark Allen
Contact's Title:	Dangerous Goods Officer
Business Name and Address:	CCP
	17650 SOUTH ASHLAND AVE HOMEWOOD IL 60430
E-mail Address:	mark.allen@cn.ca
Telephone Number:	(219) 702-2633
Fax Number:	
Hazmat Registration Number:	061724550397G
Date:	07/23/2024
Preparer is:	Carrier

08/01/2007