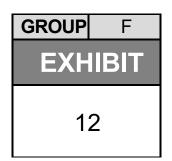


## National Transportation Safety Board Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N derailment with subsequent hazardous material release and fires, in East Palestine, Ohio, on February 3, 2023



Agency / Organization

**Arkema** 

Title

# UTLX 205907 Tank Car Loading Information and Bill of Lading, January 26, 2023

Docket ID: DCA23HR001

GNRVPFK	PI021001	Mechanical Specifications	2/07/23	8:46:17	Page 2	)

Car Number: UTLX 205907

Pressure	Brea	b
LT COOUT C	DT Ca.	$\mathbf{v}$

	Eq Q _	Size	Rating Pin PSI	Manufacturer	Model Number	<u>Material</u>	<u>Serial Number</u>	Type
Siphon Pipe	Y	3.000				Stainless St		
Sample Fitting L	in N							
Thermowell	N							
Air Connection	N							
Vacuum Relief	Y	2.500		MC KENZIE VA	509981-01	Stainless St	332301	
Manway Cover	Y 1 2	20.000		UTC		Carbon Steel		Hinged and
Manway Lift Assis	st Y			UTC				Ez-Lift
Safety Fitting 1	Y		75.00	MC KENZIE VA	. 085381-20	Stainless St	167091	Valve
Outlet Sump	Y							Pressed
Outlet Saddle	Y							
Outlet Valve	Y	4.000		UTC	UFPFR-2236TM	Carbon Steel	NA	Ball
Outlet Closure	Y	2.000		UTC		Carbon Steel		PLUG AND
Auxiliary Valve	N							

<sup>\*\*</sup> END OF REPORT \*\*



Outage Gauge Table: 381000

UTLX 205907



Compartment: 1 Shell Capacity(US Gal.):30220 Tare(lb.):66300 Max. Weight on Rail(lb.):263000

Operating Stencil:111A100W1 Length Over Couplers:59ft.4in. Extreme Width:10ft.8in. Extreme Height:15ft.6in.

Inches	US Gallons	Inches	US Gallons	Inches	US Gallons	Inches	US Gallons
0.0	0	15.0	2417	30.0	6279	45.0	10852
0.25	18	15.25	2472	30.25	6351	45.25	
0.5			2528	30.5	6423	45.5	
0.75	57	15.75	2584	30.75	6495	45.75	11091
1.0	79	16.0	2641	31.0	6567	46.0	11171
1.25	101	16.25	2698	31.25	6639	46.25	11251
1.5			2756	31.5	6712	46.5	11332
1.75			2813	31.75	6785	46.75	
2.0	176		2871	32.0	6858	47.0	
2.25			2930	32.25	6931	47.25	
2.5			2988	32.5	7004	47.5	
2.75	259		3047	32.75	7078	47.75	
3.0			3107	33.0	7152	48.0	
3.25			3166		7226	48.25	
3.5			3226		7300	48.5	
3.75			3287	33.75	7374	48.75	
4.0		1	3347	34.0	7448	49.0	
4.25			3408	34.25	7523	49.25	
4.5 4.75			3470 3531	34.5 34.75	7597 7672	49.5	
5.0	553		3593	34.75	7747	49.75 50.0	
5.25			3655	35.25	7822	50.25	
5.5			3718	35.5	7898	50.25	
5.75			3780	35.75	7973	50.75	
6.0			3843	36.0	8049	51.0	
6.25		1	3907	36.25	8124	51.25	
6.5			3970	36.5	8200	51.5	
6.75			4034	36.75	8276	51.75	
7.0	860	22.0	4098	37.0	8352	52.0	13110
7.25		22.25	4162	37.25	8429	52.25	
7.5			4227	37.5	8505	52.5	
7.75			4292	37.75	8582	52.75	
8.0	1028		4357	38.0	8658	53.0	
8.25			4423	38.25	8735	53.25	
8.5			4488	38.5	8812	53.5	
8.75			4554	38.75	8889	53.75	
9.0		1	4621	39.0	8966	54.0	
9.25 9.5			4687 4754	39.25 39.5	9044 9121	54.25 54.5	
9.75			4821	39.75	9121	54.75	
10.0			4888	40.0	9276	55.0	
10.25			4955	40.25	9354	55.25	
10.5			5023	40.5	9432	55.5	
10.75			5091	40.75	9510	55.75	
11.0			5159	41.0	9588	56.0	
11.25	1630		5227	41.25	9666	56.25	14497
11.5			5296	41.5	9745	56.5	
11.75			5365	41.75	9823	56.75	
12.0			5434	42.0	9902	57.0	
12.25			5503	42.25	9980	57.25	
12.5			5573	42.5	10059	57.5	
12.75			5642	42.75	10138	57.75	
13.0			5712	43.0	10217	58.0	
13.25			5782 5853	43.25 43.5	10296 10375	58.25 58.5	
13.5 13.75		1	5853 5923	43.5	10375	58.75	
13.75			5923 5994	43.75	10454	59.0	
14.25			6065		10613	59.25	
14.23			6136		10613	59.25	
14.75					10772		
0	2001	20.70	0201	79	.0112		.00 12

Disclaimer: Tables are for general information only and not intended for commercial use.



Outage Gauge Table: 381000

UTLX 205907



Compartment: 1 Shell Capacity(US Gal.):30220 Tare(lb.):66300 Max. Weight on Rail(lb.):263000

Operating Stencil:111A100W1 Length Over Couplers:59ft.4in. Extreme Width:10ft.8in. Extreme Height:15ft.6in.

Inches	US Gallons
60.0	15724
60.25	15805
60.5	15887
60.75	15969
61.0	16051
61.25	16132
61.5	16214
61.75	16296
62.0	16377
62.25	16459
62.5	16540
62.75	16622
63.0	16703
63.25	16785
63.5	16866
63.75	16948
64.0	17029
64.25	17110
64.5	17192
64.75	17273
65.0	17354
65.25	17435
65.5	17516
65.75	17597
66.0	17678
66.25	17759
66.5	17840
66.75	17921
67.0	18002
67.25	18083
67.5	18163
67.75	18244
68.0	18325
68.25	18405
68.5	18486
68.75	18566
69.0	18646
69.25	18727
69.5	18807
69.75	18887
70.0	18967
70.25	19047
70.5	19127
70.75	19206
71.0	19286
71.25	19366
71.5	19445
71.75	19525
72.0	19604
72.25	19683
72.5	19763
72.75	19842
73.0	19921
73.25	20000
73.5	20078
73.75	20157
74.0	20236
74.25	20314
74.5	20393
74.75	20471
17.73	2071 1

Length O	ver Couplers:
Inches	US Gallons
75.0	20549
75.25	20627
75.5	20705
75.75	20783
76.0	20861
76.25	20938
76.5	21016
76.75	21093
77.0	21170
77.25	21248
77.5	21325
77.75	21402
78.0	21478
78.25	21555
78.5	21631
78.75	21708
79.0	21784
79.25	21860
79.5	21936
79.75	22012
80.0	22087
80.25	22163
80.5	22238
80.75	22314
81.0	22389
81.25	22464
81.5	22538
81.75	22613
82.0	22687
82.25	22762
82.5	22836
82.75	22910
83.0	22984
83.25	23057
83.5	23131
83.75	23204
84.0	
84.25	
84.5	23423
84.75	23425
85.0	23568
85.25	23640
85.5	23712
85.75	23784
86.0	23855
86.25	23927
86.5	23998
86.75	24069
87.0	24140
87.25	24210
87.5	24281
87.75	24351
88.0	24421
88.25	24421
88.5	24561
88.75	24630
89.0	24699
89.25	24768
89.5	24837
00 75	04005

ŀın.	EXIIE	me Width:10ff
	Inches	US Gallons
	90.0	24974
	90.25	25042
	90.5	25109
	90.75	25177
	91.0	
	91.25	25311
	91.5	25378
	91.75	25445
	92.0	25511
	92.25	25577
	92.5	25643
-	92.75	25709
	93.0	
	93.25	25839
	93.5	25904
	93.75	25969
	94.0	
	94.25	26097
-	94.5	
	94.75	26224
	95.0	26287
	95.25	26350
	95.5	26413
	95.75	26475
	96.0	
	96.25	26599
	96.5	26660
	96.75	26721
	97.0	26782
	97.25	26843
	97.5	26903
	97.75	26963
	98.0	27022
	98.25	27081
	98.5	27140
	98.75	27199
	99.0	
	99.25	
	99.5	27373
	99.75	27430
	100.0	27487
	100.25	27543
	100.5	27599
	100.75	27655
	101.0	27711
	101.25	27766
	101.25	27821
-		
	101.75	27874
	102.0	27929
	102.25	27981
L	102.5	28036
	102.75	28088
	103.0	28140
	103.25	28193
	103.5	28244
	103.75	28294
	104.0	28345
	104.25	28396
	104.5	28446
	104.75	28496

Inches	US Gallons
105.0	28545
105.25	28592
105.5	28641
105.75	28689
106.0	28736
106.25	28783
106.5	28829
106.75	28875
107.0	28920
107.25	28964
107.5	29009
107.75	29053
108.0	29095
108.25	29137
108.5	29179
108.75	29221
109.0	29263
109.25	29303
109.5	29342
109.75	29382
110.0	29421
110.25	29458
110.5	29496
110.75	29533
111.0	29569
111.25	29605
111.5	29639
111.75	29673
112.0	29707
112.25	29738
112.5	29770
112.75	29802
113.0	29833
113.25	29862
113.5	29891
113.75	29919
114.0	29945
114.25	29971
114.5	29996
114.75	30020
115.0	30043
115.25	30064
115.5	30085
115.75	30105
116.0	30122
116.25	30138
116.5	30152
116.75	30165
117.0	30176
117.25 117.5	30185 30192
117.5	30192
117.75	30202
118.25	30202
118.5	30208
118.75	30208
119.0	30200
119.25	30209
	55200

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89.75

24905



Outage Gauge Table: 381000

UTLX 205907



Compartment: 1 Shell Capacity(US Gal.):30220 Tare(lb.):66300 Max. Weight on Rail(lb.):263000

Operating Stencil:111A100W1 Length Over Couplers:59ft.4in. Extreme Width:10ft.8in. Extreme Height:15ft.6in.

Inches US Gallons

Disclaimer: Tables are for general information only and not intended for commercial use.

Arkema 000005

Outage Gauge Table: 381000 Page 3 of 3

Date	e: '01/2	26/2023	STR B	111 UN R -36 DIVDEN N	MO. WININ	111077771	ORT FORM - O				able	
A	RI	<b>KE/</b> //		THE SHIPMENT THAT THE BILL OF NOTE - WHERE TH SPECIFICALLY IN	MOVES BETV	VEEN TWO PO	PRTS BY A CARRIER BY HETHER IT IS A CARRIEI VALUE, SHIPPERS ARE DECLARED VALUE OF TI	WATER R'S OR REQUIF HE PRO	R, THE LAW REQUI SHIPPER'S WEIGH RED TO STATE PERTY.	RES T. SI	Pag HIPPING POINT: 9502 B BAYPO	ge 1 of 1
CONSI	ONED TO	7.1		COLLECT	PREP	AID	F.O.B/ FREIGHT	fob	delivered	-	PASADENA, TX 7	7507-1498
ARKE C/O N 291 S	MA INC IS TBT KEIM :	: FACILITY ST	nee - Fo	<u>u</u> r purpose of notificati	on only)	Subject to S without reco delivery of t	ection 7 of conditions of ourse on the consignor, t his shipment without pay	applica he cons ment o	able bill of lading, if ignor shall sign the of feight and all othe Arkema	this shipme following si er lawful cha	nt is to be delivered to tatement. The carrier sanges.	the consignee shall not make
		IPA 19464				THE FIBRE E	BOXES USED FOR THIS ERTIFICATE THEREON,	(Sig	nature of c	Onsigno	Or) FICATIONS SET FORTI	H IN THE BOX
condition any pers carrier o intereste Uniform shipper I the said	ED, subject of content	t to the classifications of packages un ouration in possessi said destination. It any said property, assification in effectifies that he is fan conditions are her	ons and known), on of the is mutu that even the interest on the illier wite eby agreement.	tariffs in effect on the marked, consigned a e property under the e property under the ally agreed, as to eac any service to be perfe date hereof, if this is the all the terms and co ted to by the shipper	e date of issue nd destined as contract) agree h carrier of all ormed hereunds a rail or rail-wonditions of the for himself and	of the Bill of L indicated belo s to carry to i or any of said er shall be sub vater shipment s said bill of la l his assigns.	ERTIFICATE THEREON, / ading, the property descrive, which said carrier its training the said carrier its usual places of deliver, property over all or any ject to all terms and con or (2) in the applicable or (2) and the applicable its ding set forth in the class	ribed be e word y at sai portion ditions o motor co sification	elow, in apparent g carrier being under d destination, if on of said route to de of the Uniform Don arrier classification n or tariff which go	ood order, e stood throughts route, of stination, an estic Straig or tariff if the	UNIFORM FREIGHT CL xcept as noted (conten ghout this contact as m herwise to deliver to a id as to each party at a ht Bill of Lading set for is is a motor carrier sh ansportation of the ship	ASSIFICATIONS ts and teaning nother ny time th (1) in the ipment. The oment, and
		NSRR N			oo,	RP						
	205907	Tor vericle ID	<b>!</b>		TARE		194,300.00	00 LB	<b>NET</b> 194,300	.000 LB	Subject to verification respective weighing a bureau according to a Arkema Inc.	nd inspection
ITEM	НМ	NO. PACKAGE				DESCRI				(Subjec	WEIGHT	MATERIAL
				livery: 82981 der: 4300066		ustomer	PO:					
10	Х	1 RC	BUT 3 PO 491 BUT	2348 YL ACRYLATE,	STABILIZE					1	94,300.000 LB	53603
	lumbe		SEE OF I	HODOCI	MSDS F		REQUIREMENT					
101	7792,1	017797-98			The state of the s			<del></del>				
				* * * END	OF BILL	OF LADI	ING * * * TO	OTAI	L PAGES: 1			
						Norm						
				EI	RAP 2-10		130.36 :1-800-567-7	455				
				NCY SPILL OR NIGHT, O	, LEAK, I UTSIDE	FIRE, EX THE COI	POSURE OR A NTINENTAL U.	CCIE S.A.	DENT - CAL - CALL CO	LLECT	703-527-388	7
ISCHARG	SES OF	HAZARDOUS SU	BSTAN	CES IDENTIFIED	BY "RQ"	OR OF MAT	ERIALS IDENTIFIE	D AS	"MARINE POLI	JUTANTS"	MUST BE REPORT	ED TO THE
	C. c/o Ceg	s send Original of B/L(s) to: edim SY Portal	This is transp	to certify that the ak	ove-named me	aterials are pro	perly classified, describe the Department of Trans	d, pack		abeled, and		for
las, TX 75			to the classif charge	leased value of the w r specifically stated by ling the restricted or terms and conditions cation whis sults is s on the	as stated in the thick the stated in the lowest transfer	on and sine tariff ansport	DATE			DATE		

**Arkema 000006** 

ARKEMA INC. c/o Cegedim SY Portal PO Box 210007 Dallas, TX 75211

Ship From: CLEAR LAKE PLANT

## Pick List

Page 1 of 1 01/26/2023 12:20:14

Ship-To: 88271 ARKEMA INC C/O NS TBT FACILITY 291 S KEIM ST POTTSTOWN PA 19464

Order Created By:

**Delivery Number:** 

0082981301

Order Number: Order Date: Total Gross Weight:

Delivery Date: Terms of Delivery:

Goods Issue Date:

Loading Date:

4300066529 01/23/2023 180,000 LB 02/12/2023 PPD fob delivered

01/28/2023

01/28/2023 @ 00:00:00

Route/Carrier: RAIL - RAIL 15 DAYS TRANSIT

URX 205907

Item	Material/De	scription	Loading G	roup
10	<b>53603</b> BUTYL ACF RAIL CAR	RYLATE 10-20 PPM MEHQ	DEFAULT	
	<u>Quantity</u> 000.000 LB	<u>Packages Ordered</u> 180,000 LB	Packages to Pick 180,000 LB	<u>SLOC</u> 0001
		*******End Of O	rder******	
Order compl	ete & checked for	accuracy by:		

Signature:

02/6/23

Template: SS-0662 TANK CAR INPSECTION - CLAKE

**Car ID:** UTLX 205907 **Inspection Date:** 01/26/23 08:20

Inspection Re	quired	Result	Comments	Inspector ID	Inspect Date
DUE DATES		Н			
Y TANK QUALIFICATION		2026		clkdp5	01/26/23 08:35
Y THICKNESS TEST		2026		clkdp5	01/26/23 08:35
Y SERVICE EQUIPMENT		2026		clkdp5	01/26/23 08:35
Y PRD VALVE TEST		2026		clkdp5	01/26/23 08:35
Y LINING DUE DATE		n/a		clkdp5	01/26/23 08:35
Y 88. B2 INSPECTION		2026		clkdp5	01/26/23 08:35
Y STUB SILL INSPECTIO	N	2026		clkdp5	01/26/23 08:35
Y TANK TEST		2026		clkdp5	01/26/23 08:35
Y HEATER COILS (INTER	RIOR ONLY)	n/a		clkdp5	01/26/23 08:35
Y VALVE MAINTENANCE GASKETS)	DATES (INCLUDING	2026		clkdp5	01/26/23 08:35
Y BOV REBUILD DATE (I MAINT. DATE)	F DIFFERENT FROM VALVE	2026		clkdp5	01/26/23 08:35
PRE INSPECTION		Н			
	: REFERS TO CHECKING IGN OBJECTS INSIDE THE	GOOD		clkdp5	01/26/23 08:35
Y STENCILS, PAINT, & C - LEGIBLE AND IN ENG	HEMTREC PHONE NUMBER GLISH	YES		clkdp5	01/26/23 08:35
NO CRACKS OR BROKE COUPLER RELEASE HA BENT OR BROKEN AND	NDLE IS PRESENT, NOT O OPERATING PROPERLY. QUIRES A KNUCKLE PIN LER - INSPECT DRAFT	YES		clkdp5	01/26/23 08:35
BRAKE SHOES - NONE A MINIMUM ½" THICK (BRAKE END) PADS AR WHEN HANDBRAKE IS		TRUE		clkdp5	01/26/23 08:35
BRAKE CHAINS NOT BE NOT BOTTOM OUT AG	RANK & GUIDE BRACKET - ROKEN. BELL CRANK DOES AINST BRACKET. CHAIN ING & NOT RUBBING ON HAINS WHEN BRAKE IS	TRUE		clkdp5	01/26/23 08:35
	TTACHMENTS - BRACKETS  BRACKETS WELDED TO TO THE TANK	TRUE		clkdp5	01/26/23 08:35
BEARINGS - NONE CRA	VERHEATING. SPRINGS -	TRUE		clkdp5	01/26/23 08:35
P DRAGGING EQUIPMENT HANGING EQUIPMENT		TRUE		clkdp5	01/26/23 08:35
Y TANK SHELL & HEADS: CORROSION, CRACKS, CRACKS IN WELDS.	NO ABRASION, DENTS, DISTORTION, OR	TRUE		clkdp5	01/26/23 14:36
Y LADDERS, HANDHOLDS NO DAMAGE & ATTACH FASTENERS.	S, HANDRAILS: SECURE, HED WITH APPROVED AAR	TRUE		clkdp5	01/26/23 08:35

02/6/23

Template: SS-0662 TANK CAR INPSECTION - CLAKE

Car ID: UTLX 205907

**Inspection Date:** 01/26/23 08:20

Inspection Required	Result	Comments	Inspector ID	Inspect Date
Y END PLATFORMS, OPERATING PLATFORMS, & WALKWAYS: MOUNTING BRACKETS SECURE, NO	TRUE		clkdp5	01/26/23 08:35
DAMAGE, AND NO SPLICING OF RUNNING BOARDS ON END PLATFORMS. ALL NUTS & BOLTS MUST BE APPROVED AAR FASTENERS AND NONE MISSING DAMAGED OR LOOSE.				
Y BOTTOM OUTLET VALVE ASSEMBLY: TANK CAR HAS BOTTOM OUTLET PROTECTION (SKIDS).	PASS		clkdp5	01/26/23 08:35
PY BOTTOM OUTLET VALVE, GASKETS & PACKING NUT - LEAK FREE WITH THE HANDLE LOCKED AND PINNED IN THE CLOSED POSITION. ALL NUTS AND BOLTS ARE PRESENT AND TIGHT. VALVE STEM PACKING IS TIGHT AND SHOWS NO SIGNS OF LEAKAGE.	TRUE		clkdp5	01/26/23 08:35
Y BELLY CAP IS NOT CRACKED, THREADS IN GOOD CONDITION, GASKET SEALING SURFACE IS FREE OF CORROSION & HAS A GOOD SEALING SURFACE.	TRUE		clkdp5	01/26/23 08:35
BELLY CAP NOZZLE - ALL NUTS, BOLTS PRESENT & WRENCH TIGHT. GASKET IS NOT BULGING OUT OF FLANGE AND SHOWS NO SIGNS OF LEAKAGE. THREADS ARE IN GOOD CONDITION.	TRUE		clkdp5	01/26/23 08:35
Y NOZZLE GASKET SEALING SURFACE MUST BE FREE OF CORROSION AND FREE OF DENTS AND SHARP BURRS THAT COULD POSSIBLY DAMAGE THE GASKET.	TRUE		clkdp5	01/26/23 08:35
PELLY CAP GASKET SHALL BE INSPECTED AND CHANGED AS NECESSARY TO ENSURE A LEAK FREE PACKAGE.	TRUE		clkdp5	01/26/23 08:35
2" SECONDARY VALVE, IF EQUIPPED, MUST BE ATTACHED TO BELLY CAP WITH A 2"X CLOSED HEAVY WALL SS NIPPLE. THE VALVE HANDLE MUST NOT EXCEED 6". VALVE STEM PACKING IS TIGHT AND SHOWS NO SIGNS OF LEAKAGE	TRUE		clkdp5	01/26/23 08:35
PLUG THREADS ARE IN GOOD CONDITION. THE BELLY CAP AND PLUG MUST BE ATTACHED TO THE TANK CAR WITH CHAINS.	TRUE		clkdp5	01/26/23 08:35
Y HEATER COILS:EXT - INSPECT HEATER COIL CONNECTION NIPPLES AND THREADS FOR WORKING CONDITION (NO CAPS REQUIRED).	N/A		clkdp5	01/26/23 08:35
HEARTER COILS: INT - INSPECT HEATER COIL CONNECTION NIPPLES AND THREADS FOR WORKING CONDITION. INSPECT CAPS, CAP THREADS IN WORKING CONDITION. CAPS MUST BE ATTACHED TO CAR WITH CHAINS. INSPECT CHAIN AND CHAIN ATTACHMENT.	N/A		clkdp5	01/26/23 08:35
Y SEAL PIN AND CHAIN ATTACHED, HINGE NOT BROKEN AND IN WORKING CONDITION, HINGE PIN PRESENT AND NOT BROKEN. COVER HANDLE IS PRESENT AND NOT BROKEN. COVER STOP IS PRESENT AND NOT BROKEN. COVER HAS NO CRACKS OR DAMAGE.	YES		clkdp5	01/26/23 08:35
Y VALVE HANDLES PRESENT AND PROPERLY ATTACHED WITH HANDLE IN PROPER POSITION. PLUGS AND VALVE FLANGES ARE ATTACHED TO ASSEMBLY FLANGE PLATE WITH CHAINS. PLUG TREADS IN GOOD WORKING CONDITION.	YES		clkdp5	01/26/23 08:35

02/6/23

**Template:** SS-0662 TANK CAR INPSECTION - CLAKE

**Car ID:** UTLX 205907 **Inspection Date:** 01/26/23 08:20

Inspection Required	Result	Comments	Inspector ID	Inspect Date
Y PLUG TREADS IN GOOD WORKING CONDITION. VALVES SHOW NO SIGNS OF LEAKAGE. ALL NUTS AND BOLTS ARE PRESENT AND WRENCH TIGHT WITH AT LEAST 2 THREADS SHOWING ABOVE NUT. GASKETS ARE NOT MISSING, BULGING OR CRACKED.	YES		clkdp5	01/26/23 08:35
Y SAFETY VALVE: ALL NUTS AND BOLTS PRESENT AND WRENCH TIGHT. NOTE: IF SAFETY VALVE EQUIPMENT IS CHANGED FOLLOWING LEAK TEST, FORM MUST REFLECT THIS NEW TEST DATES.	YES		clkdp5	01/26/23 08:35
? SAFETY VENT: VISUALLY INSPECT RUPTURE DISC FOR DAMAGE AND TO ENSURE THAT DISC IS NOT RUPTURED. (NO TEST DATE REQUIRED FOR SAFETY VENT)	TRUE		clkdp5	01/26/23 08:35
? CLEAN OUT PORTS (35M CARS ONLY): INSPECT EYEBOLT LUGS, HINGE AND HINGE PIN NOT BROKEN, CHAIN AND ATTACHMENT TO CAR IF NOT HINGED. SAFETY.EYEBOLT OPERATION, ALL NUTS AND BOLTS IN WORKING CONDITION TO ENSURE LEAK FREE PACKAGE.			clkdp5	01/26/23 08:35
Y GASKET AND SEALING SURFACE IN GOOD WORKING CONDITION. NUTS AND BOLTS ARE WRENCH TIGHT.	TRUE		clkdp5	01/26/23 08:35
MANWAY AND MANWAY NOZZLE: MANWAY HINGE AND HINGE PIN MUST BE PRESENT AND IN GOOD WORKING CONDITION. INSPECT EYEBOLT ATTACHMENT WELDS (EARS/LUGS ON NOZZLE) FOR CRACKS AND DEFECTS. CHECK EYEBOLTS FOR GALLING AND HEX NUTS	TRUE		clkdp5	01/26/23 08:35
Y ENSURE 2 SAFETY EYEBOLTS ARE PRESENT AND PROPERLY OPERATE.MUST BE ABLE TO PLACE SEAL THRU AT LEAST ONE EYEBOLT. MANWAY COVER STOP MUST BE PRESENT AND WORKING.	TRUE		clkdp5	01/26/23 08:35
MANWAY COVER, MANWAY NOZZLE SEALING SURFACE, AND MANWAY GASKET, MUST BE INSPECTED AND CHANGED AS NECESSARY TO ENSURE A LEAK FREE PACKAGE.	TRUE		clkdp5	01/26/23 08:35
POST INSPECTION	Н			
MANWAY SECUREMENT: MANWAY IS CLOSED AND SECURED USING 125 LBS OF TORQUE.	YES		clkdp5	01/26/23 14:36
Y LEAK TEST: REFER TO TANK CAR LEAK TEST PROCEDURE.	PASS		clkdp5	01/26/23 14:36
PINNED IN THE CLOSED POSITION AND SEALED.PACKING NUT IS TIGHT AND SHOWS NO SIGNS OF LEAKAGE.BELLY CAP HAS GASKET IN PLACE AND IS WRENCH TIGHT WITH SUITABLE TOOL.	TRUE		clkdp5	01/26/23 14:36
Y TEFLON TAPE APPLIED TO SECONDARY VALVE NIPPLE, NIPPLE AND VALVE ARE ATTACHED TO BELLY CAP WRENCH TIGHT	TRUE		clkdp5	01/26/23 14:36
Y SECONDARY VALVE PACKING IS TIGHT AND LEAK FREE AND VALVE HANDLE IS IN THE CLOSED POSITION.PLUG IS TEFLON TAPED AND SECURED TO BELLY CAP OR SECONDARY VALVE,WRENCH TIGHT. INTERNAL HEATER COILS,WHEN PRESENT ON LOADED CAR,ARE LEAK FREE WITH CAPS OR PLUGS TIGH	TRUE		clkdp5	01/26/23 14:36

02/6/23

Template: SS-0662 TANK CAR INPSECTION - CLAKE

Car ID: UTLX 205907

**Inspection Date:** 01/26/23 08:20

<b>Inspection Required</b>	Result	Comments	Inspector ID	Date
Y . INTERNAL HEATER COILS ON RESIDUE CARS WILL HAVE CAPS OR PLUGS SECURELY APPLIED. CAPS OR PLUGS NOT REQUIRED ON CARS EQUIPPED WITH EXTERNAL HEATER COILS	N/A		clkdp5	01/26/23 14:36
Y CAR MUST BE STENCILED EXTERIOR COILED CAPS NOT REQUIRED ON EACH SIDE OF TANK.	N/A		clkdp5	01/26/23 14:36
TOP SECUREMENT: INSURE ALL VALVES ARE CLOSED, ALL FLANGES AND OR PLUGS (WITH TEFLON TAPE APPLIED) ARE INSTALLED AND ARE SECURED WRENCH TIGHT. CLOSE THE MULTIPLE HOUSING COVER AND SECURE CLOSED WITH PIN AND SEAL. APPLY SEALS TO EYEBOLT OF MANWAY.	TRUE		clkdp5	01/26/23 14:36
Y PLACARDS: THE CORRECT PLACARD OR PLACARDS ARE PLACED ON ALL FOUR SIDES OF CAR.	YES		clkdp5	01/26/23 14:36

SS-1704 Rev. 12/15/2022 by JM

#### TANK CAR CDL INFO FORM CLEAR LAKE PLANT



Date: Material Handler Outside: -96-9093 alma Vulu-(Print Name) PRODUCT LOADING STATION(SPOT) TANK CAR ID (NUMBER) 205907 UILX 02 CONTENT OF TANK CAR BEFORE LOADING TANK CAR SHELL CAPACITY 30220 HEEL MEASUREMENT and GALLONS 1206 LOAD LIMIT on Tank Car 196700 DESIRED LOAD LIMIT per CUSTOMER Measurement for proper fittings completed NO Vent Valve Fitting Used MICRO MOTION METER RESET NO 3/4" CIRCULATION VALVE CLOSED NO N/A Loading Station Indicator Reading - Gallons 5.782 Loading Station Indicator Reading - Pounds 3/4" CIRCULATION VALVE OPEN N/A Material Handler Outside Verification Signature Material Handler Console (PRINT NAME) Lepel LOAD LIMIT Entered on Computer SET POINT - Load using gallons or pounds 93805 Estroi i maid so 2010 lbs has the rhad it it sheet or 90% of shell cap - lies! Level Probe Tested and Functioning Properly (YES) NO Ground Indication Functioning Properly BYPASS YES NO Verify 3/4" CIRCULATION VALVE CLOSED YES) NO N/A Set Point Gallons (Computer) Set Point Pounds (Computer) Total Gallons Loaded (Computer) Total Pounds Loaded (Computer) Total Net Pounds (Scale Ticket) 3/4" CIRCULATION VALVE OPEN NO N/A Material Handler Console Verification Signature NOTE: THE INFORMATION AND SIGN OFF IN THESE MUST BE COMPLETED BEFORE LOADING

BEGINS See back for CRUIT Foldood

AREAS

Arkema 000012

### **DOT HAZMAT TRAINING**

Brown & Root @ Celanese CLK
Hazmat Employee Training Record and Certification

Name of Employee		Training and	ing and Completion Dates (mm/yr)			
	General Awareness	Function Specific	Safety Training	Security Awareness	Transportation Security / In- depth	Emergency Plan (Comm./ Area Specific)
BONILLA DENNIS	6/28/22	6/28/22	6/3/22	6/28/22	6/30/22	7/29/22
BONILLA JULIO	6/28/22	6/28/22	7/21/21	6/28/22	6/30/22	7/29/22
SANDLES MARCUS	6/28/22	6/28/22	7/15/21	6/28/22	6/30/22	7/29/22
SANDLES TONY	6/28/22	6/28/22	10/23/20	6/28/22	6/30/22	7/29/22
ANTHONY RUSSO	12/9/22	12/9/22	12/9/22	12/9/22	12/9/22	12/9/22
OVERSTREET ALEX	11/18/22	11/18/22	11/18/22	11/18/22	11/18/22	11/18/22
GUERRERO RANDY	6/28/22	6/28/22	4/4/22	6/28/22	6/30/22	7/29/22
PUENTE JIMMY	11/23/22	11/23/22	11/23/22	11/23/22	11/23/22	11/23/22
LOPEZ , OSCAR	6/28/22	6/28/22	10/15/22	6/28/22	6/30/22	7/29/22
HATHCOCK MICHAEL	6/28/22	6/28/22	7/30/21	6/28/22	6/30/22	7/29/22
GRISHAM DUSTIN	6/28/22	6/28/22	4/1/22	6/28/22	6/30/22	7/29/22
LOCHRIDGE COREY	6/28/22	6/28/22	6/1/22	6/28/22	6/30/22	7/29/22
McGAHEY DONOVAN	6/28/22	6/28/22	6/10/22	6/28/22	6/30/22	7/29/22
POPE JONATHAN	6/28/22	6/28/22	3/13/20	6/28/22	6/30/22	7/29/22
PALMER DYLAN	6/28/22	6/28/22	4/1/22	6/28/22	6/30/22	7/29/22
SANCHEZ DAMIAN	6/28/22	6/28/22	7/15/21	6/28/22	6/30/22	7/29/22
RITCH CHRIS	6/28/22	6/28/22	4/11/22	6/28/22	6/30/22	7/29/22
VEGA CESAR	6/28/22	6/28/22	11/19/21	6/28/22	6/30/22	7/29/22
BRANDON LOZANO	9/9/22	9/9/22	9/9/22	9/9/22	9/9/22	9/9/22

**Location of Training Materials** 

Celanese

9502 Bayport Blv Pasadena Tx 77507

I certify that the above employees have been trained and tested per49 CFR part 172 Subpart H

Subject Matter Expert Signature	Sergio Garza	
	Randy Guerrero	

Session	Criteria for each session			
Cananal A	(General Awareness - Literature) 1. Haznmat Employee, Classes/Divisions, Marking/Labeling,			
General Awareness	Placarding, Erg Book (every year)			
Function Specific	Special Permits /Excemption Training (every year)			
Safety Training	1.Entry Level Progression (Requalification every 3 yrs.) 2.Blue Book			
Security Awareness	Security Awareness - Plant (every year)			
depth	Transportation Security Training and In - Depth (every year)			
CLK Emerg Plan Review	SWP 11-01-01 06 Emerg. Plan Communication, Area Specific (every year)			

THIS DOCUMENT IS TO <u>CERTIFY</u> THAT THESE HAZMAT EMPLOYEES HAVE RECEIVED HAZARDOUS MATERIALS TRANSPORTATION TRAINING AND HAVE BEEN TESTED IN ACCORDANCE WITH 49CFR 172.700-172.704.

## UNITED STATES OF AMERICA DEPARTMENT OF TRANSPORTATION PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION



#### HAZARDOUS MATERIALS CERTIFICATE OF REGISTRATION FOR REGISTRATION YEAR(S) 2022-2023

Registrant:

ARKEMA, INC.

ATTN: Christina M Kurtz 900 FIRST AVENUE KING OF PRUSSIA, PA 19406-1308

This certifies that the registrant is registered with the U.S. Department of Transportation as required by 49 CFR Part 107, Subpart G.

This certificate is issued under the authority of 49 U.S.C. 5108. It is unlawful to alter or falsify this document.

Reg. No: 061622550189E

Effective: July 1, 2022

**Expires: June 30, 2023** 

HM Company ID: 9009

#### Record Keeping Requirements for the Registration Program

The following must be maintained at the principal place of business for a period of three years from the date of issuance of this Certificate of Registration:

- (1) A copy of the registration statement filed with PHMSA; and
- (2) This Certificate of Registration

Each person subject to the registration requirement must furnish that person's Certificate of Registration (or a copy) and all other records and information pertaining to the information contained in the registration statement to an authorized representative or special agent of the U. S. Department of Transportation upon request.

Each motor carrier (private or for-hire) and each vessel operator subject to the registration requirement must keep a copy of the current Certificate of Registration or another document bearing the registration number identified as the "U.S. DOT Hazmat Reg. No." in each truck and truck tractor or vessel (trailers and semi-trailers not included) used to transport hazardous materials subject to the registration requirement. The Certificate of Registration or document bearing the registration number must be made available, upon request, to enforcement personnel.

For information, contact the Hazardous Materials Registration Manager, PHH-52, Pipeline and Hazardous Materials Safety Administration, U.S. Department of Transportation, 1200 New Jersey Avenue, SE, Washington, DC 20590, telephone (202) 366-4109.