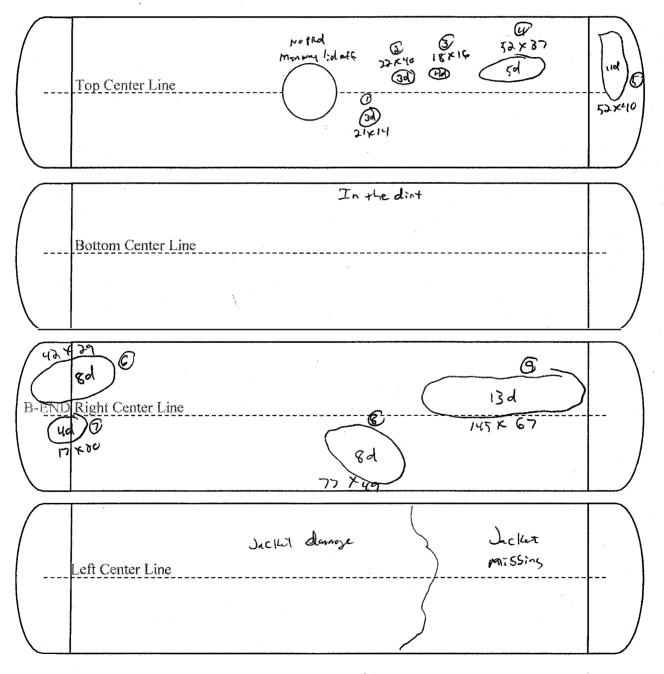


Federal Railroad Administration Tank Car Damage Assessment Form

Reporting Marks	GATX 69298		Car Location City/State	Reed Point, Montana		
Date inspected	6/29/23	Railro	ad	MRL	DOT Specification	AAR 21160W
Last Contained	UN2448		Was product released?	Yes		
(Jacket thickness)	Jacket 0.1196 Non-jack		-jacketed	Does car contain product	Yes	
Car builder	TILX		Stub	Sill Design		Built Date 12/1/1990
Capacity (GAL)		13,8	56		LD Limit (LB)	20,3000

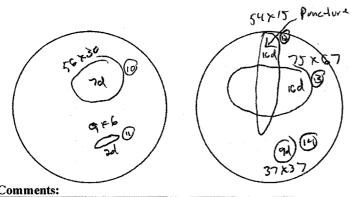
Indicate number on figures below within damaged areas. (Sketched in by inspector.)

A-END





Federal Railroad Administration Tank Car Damage Assessment Form A-Head



	Station Stencil	Qual.	Due
Tank Qual.	MRN	2013	2023
Thickness	MRN	2013	2023
Serv. Equip.	GACA	2019	2025
PRD		×	
Lining	GACA	2019	2025
Rule 88	MRN	2013	2023
Stub Sill	MRN	2013	2023

Comments:

A Head puncture with 1/4 of jacket material missing. B head dented with no jacket.

TANK OR JACKET DAMAGE

1. Document estimated location of damage on Figures located on page 1 of this report and document dimensions coinciding with number below. (Photos should be numbered and attached to coincide with numbers below.)

1	Affected?	Tank		Top, Middle	Dimensions:			21	Width		Depth	3
-	Defect type?	Dent	Shape?	Circle	Possible Cause	?	Derail	ment o	ff a bridge	into riv	/er.	1
2	Affected?	Tank	Location?	Top, Middle	Dimensions:	Lei	ngth	22	Width	40	Depth	3
-	Defect type?	Dent	Shape?	Circle	Possible Cause	?	Derail	ment o	ff a bridge	into ri	ver.	
3	Affected?	Tank	Location?	Top, Middle	Dimensions:	Lei	ngth	18	Width	16	Depth	4
-	Defect type?	Dent	Shape?	Circle	Possible Cause	?	Derail	ment of	ff a bridge	into riv	ver.	
4	Affected?	Tank	Location?	Top, Middle	Dimensions:	Lei	ngth	52	Width	37	Depth	5
-	Defect type?	Dent	Shape?	Oval	Possible Cause	?	Derail	ment o	off a bridg	e into	river.	
5	Affected?	Tank	Location?	Top, B end	Dimensions:	Lei	ngth	52	Width	40	Depth	11
-	Defect type?	Dent	Shape?	Oval	Possible Cause	?	Derail	ment of	ff a bridge	into riv	ver.	e.
6	Affected?	Tank	Location?	Right, B end	Dimensions:	Lei	ngth	42	Width	29	Depth	8
-	Defect type?	Dent	Shape?	Oval	Possible Cause	e?	Derail	ment o	ff a bridge	into ri	ver.	
7	Affected?	Tank	Location?	Right, B end	Dimensions:	Lei	ngth	17	Width	20	Depth	4
-	Defect type?	Dent	Shape?	Oval	Possible Cause	?	Derail	ment c	off a bridge	e into r	iver.	
8	Affected?	Tank	Location?	Right, Middle	Dimensions:	Le	ngth	77	Width	49	Depth	8
-	Defect type?	Dent	Shape?	Oval	Possible Cause	e?	Derai	Iment	off a brid	ge inte	o river.	
9	Affected?	Tank	Location?	Right, A end	Dimensions:	Le	ngth	145	Width	67	Depth	13
-	Defect type?	Dent	Shape?	Oval	Possible Caus	e?	Dera	ilment	off a brid	ge inte	o river.	
10	Affected?	Tank	Location?	B Head	Dimensions:	Le	ngth	56	Width	30	Depth	7
-	Defect type?	Dent	Shape?	Circle	Possible Caus	e?	Dera	ilment	off a brid	lge int	o river.	<u>.</u>
11	Affected?	Tank	Location?	B Head	Dimensions:	Le	ngth	9	Width	6	Depth	2
-	Defect type?	Dent	Shape?	Oval	Possible Caus	e?	Dera	ilment	off a brid	ge into	o river.	<u>. — </u>
12	Affected?	Tank	Location?	A Head	Dimensions:		ngth			15	Depth	16
-	Defect type?	Puncture	Shape?	Oval	Possible Caus	e?	Dera	ilmen	t off a br	idge i	nto river	
13	Affected?	Tank	Location?	A Head	Dimensions:	Le	ngth			67	Depth	16
-	Defect type?	Dent	Shape?	Oval	Possible Caus	e?	Dera	ilment	off a brid	dge in	to river.	
14	Affected?	Tank	Location?		Dimensions:		ngth			37	Depth	9
-	Defect type?	Dent	Shape?	Circle	Possible Caus		-		off a brid		-	
L	<i></i>		-	Рапо 2	<u>ا</u>		1.5.0					



Federal Railroad Administration

2 23		Tank Car Dama	ge Assessment Form
-	Defect type?	Shape?	Possible Cause?
15	Affected?	Location?	Dimensions: Length Width Depth
	Defect type?	Shape?	Possible Cause?
16	Affected?	Location?	Dimensions: Length Width Depth
1	Defect type?	Shape?	Possible Cause?
17	Affected?	Location?	Dimensions: Length Width Depth
	Defect type?	Shape?	Possible Cause?
18	Affected?	Location?	Dimensions: Length Width Depth
	Defect type?	Shape?	Possible Cause?
19	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
20	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
21	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
22	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
23	Affected?	Location?	Dimensions: Length Width Depth
(14) (14)	Defect type?	Shape?	Possible Cause?
24	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
25	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
26	Affected?	Location?	Dimensions: Length Width Depth
84	Defect type?	Shape?	Possible Cause?
27	Affected?	Location?	Dimensions: Length Width Depth
-	Defect type?	Shape?	Possible Cause?
28	Affected?	Location?	Dimensions: Length Width Depth
82	Defect type?	Shape?	Possible Cause?
29	Affected?	Location?	Dimensions: Length Width Depth
9 7 0	Defect type?	Shape?	Possible Cause?

2. Was this tank car exposed to fire?

(Indicate one)

Yes 🔿 No 💽

3. How long was the car exposed to fire?

4. What percentage/locations of the tank were exposed to fire? _____% Indicate location in figures on page 1.

5. What material burned to create the fire that the car was exposed to?

2

N/A

6. To what degree did the car roll? Initially ______ degrees and stopped at ______

8. Brief description of details of surfaces tank was exposed to in transit to present location? E.g. mud, track, rocks, etc...

Rocks, mud, broken rail/bridge and river.



Federal Railroad Administration Tank Car Damage Assessment Form

VALVE DAMAGE

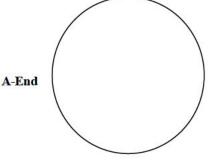
Utilize Form TCAD-1.2 and supplement description as indicative of damage below:

TOP

1. Number of damaged valves?______ Document station stencil if other than qual. Decal

a	Type of damaged valve?	Manufacturer?	Cause?
5	Gasket Type?	O-ring type?	Serial Number
b	Type of damaged valve?	Manufacturer?	Cause?
24	Gasket Type?	O-ring type?	Serial Number
c	Type of damaged valve?	Manufacturer?	Cause?
245	Gasket Type?	O-ring type?	Serial Number
d	Type of damaged valve?	Manufacturer?	Cause?
<u>,</u>	Gasket Type?	O-ring type?	Serial Number
e	Type of damaged valve?	Manufacturer?	Cause?
	Gasket Type?	O-ring type?	Serial Number

Sketch in dome or dual housing arrangement information in relation to valve location in provided figure. Valve Lettering should coincide with lettering above, along with any attached pictures.



BOTTOM

2. Description of damage? Valve, Coils etc..._____Document station stencil if other than qual. Decal_____

a	Type of damaged valve?	Manufacturer?	Cause?
-	Gasket Type?	O-ring type?	Serial Number
b	Type of damaged valve?	Manufacturer?	Cause?
÷	Gasket Type?	O-ring type?	Serial Number
с	Type of damaged valve?	Manufacturer?	Cause?
-	Gasket Type?	O-ring type?	Serial Number
d	Type of damaged valve?	Manufacturer?	Cause?
2	Gasket Type?	O-ring type?	Serial Number
е	Type of damaged valve?	Manufacturer?	Cause?
	Gasket Type?	O-ring type?	Serial Number

Other information or description deemed pertinent by inspector:

Jacket ripped off from the middle of the tank car to the B head. A head puncture, manway cover missing which released hazmat into the environment. Bottom outlet valve handle securement structure was missing and valve was partway open but the bottom outlet valve was intact. Tank car recovered from the river due to derailment/bridge collapse.

Inspector's Name (print Anthony W. Emery II Inspector's Signature



GATX 69298 A end.



GATX 69298 left side, A end.



GATX 69298 B end.



GATX 69298 left side B end.

App Data Format: Transmit Cd: O **Message Detail** ISA*00* *00*LRICHAR *02*AWI *02*BNSF *230621*0907*U*00503*019729589*1*P*~ GS*SR*AWI*BNSF*20230621*0907*19729589*X*005030 ST*404*19729589 BX*00*R*PP**BNSF*L*B*S BNX*A M3*B*20230621*0907*CT N9*RP*AWI1134912**20230621*0907*CT N9*6O*AWI-UNIQUE-19729589**20230621*0907*CT N9*BM*411650**20230621*0907*CT N7*GATX*69298*196910*N******RR F9**LAUREL*MT D9**DON*ID N1*SH*CHS INC*C5*143597859 N3*803 US HWY 212 S N4*LAUREL*MT*59044-8731 PER*NT*LINDSAY EDELMAN*TE*406 N1*CN*J R SIMPLOT N3*1150 W HWY 30 N4*DON*ID*83201 N1*PF*INTERNATIONAL CHEMICAL CO N3*1887 E. 71ST ST. N4*TULSA*OK*741363922 R2*MRL*I R2*BNSF*S*SVRBO***R R2*UP*1***R LX*1 L5*1*SULFUR*4945770*T L0*1***0* ***1*TKR LS*1 LH1*C4*1*NA2448**4945770*****III LH2*9*P LH3*SULFUR, MOLTEN*D PER*HM*CHEMTREC CCN23163*TE*800-424-9300 LE*1 **LH6*BRANDON GAUTHIER**

Message HeaderImage: Message HeaderPartner: AWIControl #: 19729589Type: 404Date/Time: 2023-06-21 09:08:00.0Correlation Id:
1687356475747.132277926AXBase Correlation Id:
message Source Cd: A3Message Source Cd: A3Protocol Cd: MQApp Data Format:Transmit Cd: OFrom Env Cd:Message Size: 887From Env Cd:Message Source Cd: A3

Message Detail SE*34*19729589 GE*1*19729589 IEA*1*019729589

BNSF 06/25 05:02:47 WME Waybill Copy 777 - BNSF RAILWAY COMPANY - 777 ****** HAZMAT UP 06/21/23 886437 69298 T98 128 3 98 062108 GATX MT 30855 LAUREL ID 04066 DON MT MISSOULA S 411650 CHS BNSF SVRBO UP 803 US HWY 212 S 0000 JR SIMPLOT CO 1150 W HWY 30 IDDON WWIB WEIGHT AGREEMENT YES TO BE PREPAID 4945770 TOTAL LADING WT 196910 HAZARDOUS SHIPMENT 1 TNK // 196910 LB NA2448 // SULFUR, MOLTEN 9 // PG III EMERGENCY CONTACT: 800-424-9300 SHIPPER CONTACT: CHEMTREC CCN23163 HAZMAT STCC=4945770 NATURAL KEY WB-ID 3708-06-21-09.08.01.662023 WB-VRSN 002 EDI 404 WGHT CD: A SULFUR 196910 LB VOLUME HAZ CERT BRANDON GAUTHIER EDI 404 RECVD FROM AWI MSG SEQ# 19729589 ON 20230621 AT 0908 BILL CD S Spec Cond Codes N9 TN overridden by WBMSPLAC 06/21/23 09:08 I BNSF SVRBO I UP PROJ RT HTUA SPEED RESTRICTION MAY APPLY. SEE SSI. PAGE 1 OF 2 69298 GATX

- 1

WEIGHT AND CHARGE TO FOLLOW PREPAID TULSA OK 0755660001

TP INTLCHEMICAL 1887 E 71ST ST ZS LOUPLOGISTIC ZS MARKITSERVIC ZS SHIPXPRESS SERVICE SCHEDULING 2023-06-21 04.45.00 2023-06-21 08.08.02

0	YRDPD S B J GATX 6929 IN POOL P	OINER 8 <t98 t<="" th=""><th>50> on trn M-</th><th>*** Yard - Car I LAUMIS1-2 1 in</th><th>nauir</th><th>v -</th><th></th><th>ted L</th><th>06/25/23 03:02:49PT 4 > AURMT 06/24 0505 23 STCC: 4945770</th></t98>	50> on trn M-	*** Yard - Car I LAUMIS1-2 1 in	nauir	v -		ted L	06/25/23 03:02:49PT 4 > AURMT 06/24 0505 23 STCC: 4945770
т	Online J	RA.TP/	Offline Dest		Evnt	8			Station
E		IndNum	Care of/Cust	Contents	CdSt	Trk	Date	Time	Train
-	Desein i								
т.	SILBOW	UP	SILBOWMT	HAZMAT	TD	207	0624	0505	M-LAUMIS1-23ALAURMT
L		UP	SILBOWMT	HAZMAT	SWWE	207	0622	1849	Y-LAU2242-22GLAURMT
L		UP	SILBOWMT	HAZMAT	SWWE	203	0622		Y-LAU3362-21GLAURMT
	SILBOW	UP	SILBOWMT	HAZMAT	SWWE	210	0622	0210	Y-LAU2151-21ILAURMT
L		UP	SILBOWMT	HAZMAT	SWWE	300	0621	2022	Y-LAU2151-21ILAURMT
	SILBOW	UP	SILBOWMT	HAZMAT	SWWE	298	0621		Y-LAU3151-21GLAURMT
Ľ		UP	SILBOWMT	HAZMAT	WBOA	900	0621		LAUREL MT
2	LAURMT	OI .	T/BLAUCHS	LOAD	RIPR	900	0621		Y-LAU3151-21GLAURMT
T	LAURMT		T/BLAUCHS	LOAD	RIRL	1204	0621	0444	LAUREL MT
E		120406		HAZMAT	APIP	1204	0619		Y-LAU2151-19ILAURMT
E		120406		HAZMAT	OTIP	1208	0619		LAUREL MT
E		120400		HAZMAT	PNFN	1208	0617		LAUREL MT
E		120801		HAZMAT	APPL	1208	0617	1943	Y-LAU2151-17ILAURMT
E		120801		HAZMAT	SWWE	128	0617	1544	Y-LAU1161-17GLAURMT
E		120801		HAZMAT	OT	305	0617	1210	LAUREL MT
E								2	
C	Car is or	aerea us	****	** End of	Data	****	* *		

06/21/2023 CHS INC B/L # 411650 Shipper CHS INC LAUREL MT 59944-8731 803 US, HWY.212 S DON ID 83201 Consignee J R SIMPLOT DON ID 83201 Third Party.Pay INTERNATIONAL CHENICAL CO TULSA OK 741363922 1887 E. 71ST ST. Origin: LAUREL MT Prepared by: LINDSAY EDELMAN Destination: DON ID Phone Number: 4066285268 Sec 7 (V/N): Yes To Be Prepaid Mode6285268 Route Details: Origin Switch Road: MRL -Junction: Delivery Switch Road: Junction: Route: BKF SVRBO UP No Contract(s) #: SULFUR 4045770 Loaded. 1 Tank Car Agreement Weights Net Weights SULFUR 4945770 Loaded. 1 Tank Car Agreement Weights NA2448 // SULFUR, MOLTEN 9 // PG III MAZARDOUS MATERIALS HAZARDOUS MATERIALS Ad45770 Holder : CHEMTREC CCN23163 HAZARDOUS GUTHER SULFUR This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation. BRANDON GAUTHER SULFUR DUNNAGE REFERENCE GATX 69298 196910 DUNNAGE REFERENCE GATX 69298 196910 <th>21/23, 8:13 AM</th> <th></th> <th></th> <th>Shipping</th> <th>Instructions</th> <th>Print</th>	21/23, 8:13 AM			Shipping	Instructions	Print
Shipper CHS TNC LAUREL MT 59044-8731 803 US HHVY 212 S DON ID 83201 1150 W HWY 30 DON ID 83201 1150 W HWY 30 DON Karley Consignee J R SIMPLOT 1150 W HWY 30 DON ID 83201 1150 W HWY 30 TULSA OK 741363922 11887 E. 71ST ST. TULSA OK 741363922 Destination: DON ID Phone Number: 4066285208 Sec 7 (Y/N): Yes Prepared by: LINDSAY EDELMAN Porigin Switch Road: MRL Junction: Delivery Switch Road: Junction: Route Details: Origin Switch Road: Junction: Not with the source of the term of term of the term of term of term of the term of the ter	06/21/2023	CHS	INC	• 	B/L # 41	1650
1150 W HWY 30 Third Party Pay INTERNATIONAL CHEMICAL CO TULSA OK 741363922 1887 E. 71ST ST. INTERNATIONAL CHEMICAL CO TULSA OK 741363922 Origin: LAUREL MT Prepared by: LINDSAY EDELMAN Destination: DON ID Phone Number: 4066285208 Scc 7 (Y/N): Yes Yes Yes Freight Charges: "To Be Prepaid" Delivery Switch Road: Junction: Route Details: Origin Switch Road: MRL -Junction: Delivery Switch Road: Junction: Route: BNSF SVRBO UP Rule 11 (Y/N): No Contract(s) #: - SULFUR 4945770 Loaded. 1 Tank Car Agreement Weights SULFUR 4945770 Loaded. 1 Tank Car Agreement Weights Net Weights 196,910 Pounds HAZARDOUS MATERIALS Net Weights 1 Carload NA2448 // SULFUR, MOLTEN 9 // PG III Emergency Telephone : 800-424-9300 Emergency Telephone : 800-424-9300 Emergency Utelephone & Contract# or Holder : CHEMTREC CCN23163 HAZARDOUS AULFUR This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in pr	Shipper	CHS INC		LAUREL	MT	59044-8731
Origin: LAUREL MT Prepared by: LINDSAY EDELMAN Destination: DON ID Phone Number: 4066285208 Sec 7 (Y/N): Yes Freight Charges: "To Be Prepaid" Route Details: Origin Switch Road: MRL Junction: Delivery Switch Road: Junction: Route: BNSF SVRBO UP No Contract(s) #: - SULFUR 4945770 Loaded 1 Tank Car Agreement Weights Net Weights 196,910 Pounds HAZARDOUS MATERIALS - - 1 Carload N22448 // SULFUR, MOLTEN 9 Pounds Pounds - - Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZARD STCC = 4945770 - This is to certify that the above-named materials are properly classified, 	Consignee	J R SIMPLOT 1150 W HWY 30		DON	ID	83201
Drigin: LAUREL MT Prepared by: LINDSAY EDELMAN Destination: DON ID Phone Number: 4066285208 Sec 7 (Y/N): Yes Freight Charges: "To Be Prepaid" Route Details: Drigin Switch Road: MRL Junction: Delivery Switch Road: Junction: Route: BNSF SVRBO UP Australian A945770 Loaded 1 Tank Car Agreement Weights Note: SULFUR 4945770 Loaded 1 Tank Car Agreement Weights Net Weights 196,910 Pounds 196,910 Pounds 196,910 Pounds HAZARDOUS MATERIALS Carload Net Weights 196,910 Pounds HAZARDOUS MATERIALS Carload Net Weights 196,910 Pounds HAZARDOUS MATERIALS Carload Net Weights 196,910 Pounds HAZARDOUS MATERIALS Contract# or Holder : CHEMTREC CCN23163 142MAT STCC = 4945770 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. SRANDON GAUTHIER SULFUR DUNNAGE REFERENCE AUTORS OF the department of transportation SULFUR	Third Party Pay	INTERNATIONAL CHEMI 1887 E. 71ST ST.	CAL CO	TULSA	OK	741363922
Route Details: Prigin Switch Road: MRL - Junction: Delivery Switch Road: Junction: Route: BNSF SVRBO UP No Sule 11 (Y/N): No No Contract(s) #:	Origin: Destination:	LAUREL MT DON ID	Prepared by: Phone Number	LINDSAY 4066285	EDELMAN 208	
Origin Switch Road: MRL - Junction: Delivery Switch Road: Junction: Route: BNSF SVRB0 UP Route: BNSF SVRB0 UP Contract(s) #: - SULFUR 4945770 Loaded 1 Tank Car Agreement Weights Net Weights - SULFUR 4945770 Loaded 1 Tank Car Agreement Weights Net Weights - 196,910 Pounds	Sec 7 (Y/N): Freight Charges:	Yes "To Be Prepaid"				
Kule 11 (Y/N): No SULFUR 4945770 Loaded. 1 Tank Car Agreement Weights Net Weights 196,910 Pounds HAZARDOUS MATERIALS 196,910 Pounds HAZARDOUS MATERIALS 1 Carload Naz448 // SULFUR, MOLTEN 9 // PG III PG III Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZAMAT STCC = 4945770 Holder : CHEMTREC CCN23163 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. SRANDON GAUTHER SULFUR ENT NUMBER WEIGHT SEALS DUNNAGE REFERENCE AUGUST	Bouto Dotoile.					1:
SULFUR 4945770 Loaded. 1 Tank Car Agreement Weights Net Weights 196,910 Net Weights 196,910 Pounds HAZARDOUS MATERIALS 1 Carload NA2448 // SULFUR, MOLTEN 9 // PG III Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZMAT STCC = 4945770 Holder : CHEMTREC CCN23163 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. BRANDON GAUTHIER SULFUR ENIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE 0	Route: BNSF SVRB Rule 11 (Y/N): Contract(s) #:	O UP No		· ~ ~	• • •	•
HAZARDOUS MATERIALS 1 Carload NA2448 // SULFUR, MOLTEN 9 // PG III Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZMAT STCC = 4945770 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. BRANDON GAUTHIER SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE SATX 69298 196910 0	SULFUR	4945770 Loaded.		Net We	ights	· · · · · · · · · · · · · · · · · · ·
HAZARDOUS MATERIALS 1 Carload NA2448 // SULFUR, MOLTEN 9 // PG III Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZMAT STCC = 4945770 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. BRANDON GAUTHIER SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE SATX 69298 196910 0				196,910 Pou	nas 	
HAZARDOUS MATERIALS 1 Carload VA2448 // SULFUR, MOLTEN 9 // PG III Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZMAT STCC = 4945770 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. BRANDON GAUTHIER SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE SATX 69298 196910 0						
NA2448 // SULFUR, MOLTEN 9 // PG III Emergency Telephone : 800-424-9300 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZMAT STCC = 4945770 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. BRANDON GAUTHIER SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE SATX 69298 196910 0	HAZARDOUS MATERIA					
Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163 HAZMAT STCC = 4945770 This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of transportation. BRANDON GAUTHIER SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE GATX 69298 196910 0	NA2448 // SULFUR,	MOLTEN				
described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the department of BRANDON GAUTHIER SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE GATX 69298 196910 0	Emergency Offeror	& Contract# or Holde	r : CHEMTREC CCM	123163		
SULFUR INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE GATX 69298 196910 0	described, packag transportation ac	ed, marked and labele	d, and are in pr	oper condit	ion for	:
INIT NUMBER WEIGHT SEALS DUNNAGE REFERENCE GATX 69298 196910 0	BRANDON GAUTHIER					
GATX 69298 196910 0	SULFUR					
			NNAGE REFERENCE			

STATUS: Accepted-824 Date: 06/21/2023 Time: 09:07 CST WAYBILL #: 886437

Outage Calculation for Sulfur Railcars **Car Number** GATX 69298 Load Limit 203000 Capacity 13856 Load Temperature 221 Select Weight Per Gal 14.9997022 ·*D*` **Outage Gallons** 888 ALTUAL ONTAGE 30"

Attention
Needed

Sulfur Tank Car Inspection

.

1.-

.

nue not or not open

CHS

Car Num	iberGATX 69298 V Track/Spot1204 Spot 6 Date Tuesday, June 20, 2023	
Placard	NA2448 Tank car Capacity138	56 V
Order #	2000	
		03000
۰. ۲	Pre-Loading Inspection	
•••	All information above is accurate with the Car and the Loading HMI/Accuload. The Car has sufficient	
	capacity, by weight and volume, to contain the product being loaded	.X.
	Qualification stencils have been reviewed, and the Car is not overdue for any tests, qualifications, or inspections $\frac{23}{25}$	~
	Car has good overall integrity with no damage or visible defects and shows no signs of leakage	×
	All placard holder, ladders, handrails, running boards, and platforms are not corroded or damaged	X
	All safety appliances are in proper condition and have no residue or corrosion	K
	The Car has no items attached that may indicate a security breach	X
•	All Fittings, valves, gaskets and fasteners are in proper condition Materials are not corroded, torn, worn, stripped or damaged 	X
	Any residue in the car is less than 3" and compatible with the product being loaded.	
	All wheels, trucks, brakes, springs in good condition	\times
	 Materials are not corroded, torn, worn, stripped or damaged 	×
	Both couplers are double shelf couplers	$\overline{\lambda}$
	All caps, plugs or removable components are properly chained to the tank car	
	The bottom outlet caps, valves, gaskets and plugs are in proper condition and have no signs of leakage from bottom unloading components	X
	The bottom outlet valve is confirmed to be fully closed	×
	The manway and cover assembly is functional, properly aligned, and centered on the manway nozzle	×
	The manway cover and area adjacent to the gasket sealing surface is free of commodity or other build up	X
-	The manway nozzle sealing surface is free of gouges, nicks, corrosion, displaced metal, residual commodity and remnants of old gaskets	K
	 The Manway hinge pins and eyebolts are in place and in proper condition Hing pins operate freely and are not bent, cut, or damaged 	Ì
	 Safety eyebolts are present at the proper location across from the nozzle hinges 	
	 Eyebolt slots and ears are not bent, warn, damaged, or deformed 	
	 Eyebolt, nuts and washers are not bent, damaged, corroded, and are free of excessive paint. or commodity 	X
	Eyebolt nuts are sized fully to bridge the eyebolt slots and washers are not cupped/deformed	
	The Manway gasket is designed and approved by CHS for the car and commodity, is in place, fully intact, and has not taken a permanent compression set that interferes with the sealing	<
	The car is properly placarded	$\overline{\langle}$
	Rupture Disk has been removed and carefully inspected for corrosion or damage and properly replaced.	X
	MOLTEN SULFUR is stenciled on both sides of the tank car	×

Print Inspectors Name

Car is ok to Load

Date

6/20/23

CHS

Sulfur Tank Car Inspection

Car Number GATX 6	9298	Track/Spot	1204 Spot 6	Date Tuesday, June	20, 2023
Placard NA2448	Product				13856
Order #000		tyle_GATX3		RR Load Limit	203000

Final Inspection

		Initials
ALL valves, fittings, closures and tool tight with a 36" pipe	, plugs, caps and fasteners verified closed wrench	
	ecured per CHS manway procedures	
Car shows no signs of vapo	r or liquid leaking	
Car is clean and free of spill	age	
	Car Seal Numbers	
Final Torque on Manway Bolts	250	
Bottom Outlet Valve Handle	2728105	
Protective Housing	2728750	
Manway Cover	2728104	
Date Completed if other than Pre-		

T- 1850 05000

BOINDA

nitiale

VSP# 2340

VSP-MCC#: P27-250-VSP# 2340 Material: VSP 367 PEG Thickness: 1/4 ID X OD: 20 X

800-1

www.vsptechnologies.com



Sulfur

Safety Data Sheet Version 004 — Last revision on 2015-02-27

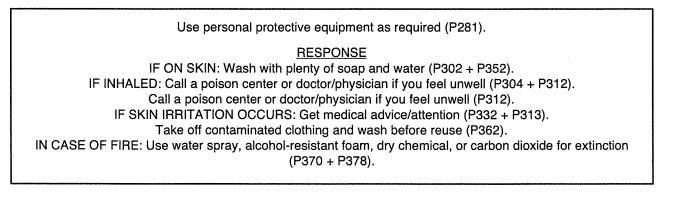
SECTION 1 - IDENTIFICATION

Product Name:	Sulfur
Product ID:	CNX-004
Synonyms:	None
Molecular Formula:	S
Chemical Family:	Pure element
Product Use:	Petroleum refining product
Manufacturer:	CHS, Inc. P.O. Box 909 Laurel, Montana 59044, USA
Telephone:	406.628.5200 (General) 800.424.9300 (Emergency – Within USA & Canada)

SECTION 2 - HAZARD(S) IDENTIFICATION

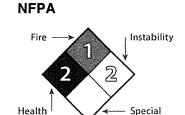
Emergency Overview

WARNING
Flammable solid (H228).
May be harmful if swallowed (H303). May be harmful in contact with skin (H313).
Causes skin irritation (H315).
May be harmful if inhaled (H333).
PREVENTION
Do not handle until all safety precautions have been read and understood (P202).
Keep away from heat, sparks, open flames, hot surfaces, etc. No smoking (P210).
Use explosion-proof equipment (P241).
Wash hands thoroughly after handling (P264). Wear gloves and eye protection (P280).



Hazard Classifications (OSHA / GHS)

Acute toxicity, dermal – Category 5 Acute toxicity, inhalation – Category 5 Acute toxicity, oral – Category 5 Skin corrosion/irritation – Category 2



Potential Health Effects

Eye Health Effects: Causes eye irritation.

Skin Health Effects: May be harmful if absorbed through skin. Causes skin irritation.

Inhalation Health Effects:

h Effects: May be harmful if inhaled. Causes respiratory tract irritation. Combustion generates dangerous sulfur dioxide (SO₂). Additionally, molten sulfur reacts with hydrocarbons to form carbon disulfide and hydrogen sulfide (H₂S), which are highly toxic gases. Exposure to high concentrations of H₂S (> 1000 ppm) will cause immediate unconsciousness and death through respiratory paralysis. Signs and symptoms of overexposure to hydrogen sulfide include respiratory and eye irritation, dizziness, nausea, coughing, a sensation of dryness and pain in the nose, and loss of consciousness. Odor does not provide a reliable indicator of the presence of hazardous levels in the atmosphere.

Ingestion Health Effects: May be harmful if swallowed.

Carcinogenic Effects: Not a suspected carcinogen.

Potential Environmental Effects

Environmental Effects: Spills into watercourses may be harmful to organisms and bottom feeders.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

(Sector Contractor Hazardous Ingredients Video La discut Ion Contractor				
Name	CAS #	RTECS #	EINECS #	% (Weight)
Sulfur	7704-34-9	WS4250000	231-722-6	< 99

SECTION 4 - FIRST-AID MEASURES

NOTE: See Section 11 for symptoms and effects.

Eye Contact

Flush eyes immediately with clear water for at least 15 minutes. Remove contact lenses if present and easy to do. If irritation persists, seek medical attention.

Skin Contact

Wash area of contact thoroughly with soap and plenty of water. If irritation persists, seek medical attention.

Inhalation

If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If breathing difficulties develop, oxygen should be administered by qualified personnel. If victim is not breathing, clear airway and immediately begin artificial respiration. Seek immediate medical attention.

Ingestion

Do not induce vomiting. Seek medical attention.

Notes to Physicians

This material may liberate hydrogen sulfide (H_2S). At high concentrations H_2S may produce pulmonary edema, respiratory depression, and/or respiratory paralysis. The first priority in treatment should be the establishment of adequate ventilation and the administration of 100% oxygen. Nitrite therapy (found in the cyanide antidote kit) has been suggested as a therapy for H_2S exposure. Amyl nitrite is given by inhalation (for 30 seconds every minute until an intravenous line is established) followed by intravenous sodium nitrite (300 mg over absolutely no less than 5 minutes). This may aid recovery by forming sulfmethemoglobin, thus removing sulfide from combination in tissue. The antidotal efficacy of nitrite therapy is controversial, but is currently recommended if it can be started within the first few minutes after exposure. Nitrite therapy should not be allowed to interfere with the establishment of adequate ventilation and oxygenation. (*Source: ATSDR Toxic Substances Portal – Hydrogen Sulfide*).

Medical Conditions Aggravated by Exposure

Not available.

SECTION 5 — FIRE-FIGHTING MEASURES

NFPA 704 Hazard Classes:

Health:	2 (Moderate)
Flammability:	1 (Slight)
Instability:	2 (Moderate)
Other Hazards:	Not applicable

Unusual Fire and Explosion Hazards

Flammable in the presence of a source of ignition, or through friction or retained heat. Dust may form explosive mixtures in air. This dust cloud may be exploded by flame or spark.

Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Protection of Firefighters

Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Wear self-contained breathing apparatus. In addition, wear other appropriate protective equipment as conditions warrant (see *Section* 8).

Firefighting Procedures

Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Use fine spray or fog to control fire by preventing its spread and absorbing some of its heat. Use water spray to keep fire-exposed containers cool. Water or foam may cause frothing of molten sulfur. Extinguish fire using agent suitable for surrounding fire. Dry chemical extinguishers may not extinguish this type of fire. Fire watch should be posted for a minimum of four (4) hours after any fire.

Other Information

Combustion Products:	Sulfur dioxide, carbon disulfide, fumes, smoke, carbon monoxide, and aldehydes.
Flammable Properties:	See Section 9 for Flash Point, Explosive Limits, etc.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation. Wear appropriate protective equipment as conditions warrant (see *Section 8*).

Environmental Precautions

Do not let material enter drains. Assure conformity with applicable government regulations.

Containment Procedures

Not available.

Clean-up Procedures

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 — HANDLING AND STORAGE

Handling

Keep product away from heat, sparks, pilot lights, static electricity, and open flame. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust may be formed.

Storage

Keep container tightly closed in a dry and well-ventilated place. Keep dry.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, and/or engineering professionals.

Personal Protective Equipment



Respiratory Protection:	For nuisance exposures, use type P95 particle respirator. For higher level protection, use type OV/AG/P99 respirator cartridges. Use respirators and components tested and approved under appropriate government standards, such as NIOSH.
Eye/Face Protection:	The use of eye protection (such as safety glasses) that meets or exceeds ANSI Z.87.1 is recommended. Depending on conditions of use, a face shield may be necessary.
Skin Protection:	Wear gloves to protect against skin contact. Depending on conditions of use, additional protection may be necessary to prevent skin contact, such as face shield, apron, body suit, long sleeves, etc.
General Considerations:	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

Engineering Controls

Provide ventilation sufficient to prevent exceeding recommended exposure limits or buildup of explosive concentrations of dust in air. Use explosion-proof equipment.

Exposure Limits / Guidelines

Component	ACGIH TLV	NIOSH REL	OSHA PEL
Nuisance dust, total	TWA: 10 mg/m ³		TWA: 15 mg/m ³

Note: State, local, or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Powder
Appearance	Light yellow
Odor	Slight-sweet to mercaptan
Odor Threshold	Not available
рН	Not available
Freezing Point	243 – 248 °F (117 – 120 °C)
Boiling Point	832.5 °F (445 °C)
Flash Point	334 °F (168 °C) by closed cup
Flammability	Flammable
Explosive Limits	0.17 % (LEL) – 6.83 % (UEL)
Evaporation Rate	Not available
Vapor Pressure	8 mmHg at 475 °F (246 °C); 1 mmHg at 363 °F (184 °C)
Vapor Density	Not available
Specific Gravity	Not available
Density	2.05 g/cm ³
Solubility	Insoluble
Partition Coefficient	Not available
Auto-ignition Temperature	450 °F (232 °C)
Decomposition Temperature	Not available
Viscosity	Not available
Molecular Formula	S
Molecular Weight	32.07 g/mol

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Stable under normal temperature conditions and recommended use.
Conditions to Avoid:	Heat, flames and sparks; extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents, amines, and bases.
Hazardous Polymerization:	Not known to occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

General Toxicity

Signs and Symptoms:	Burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, dermatitis.
Aspiration Hazard:	Not available.
Sensitization:	Not available.
Specific Target Organs:	Not available.
Carcinogenicity:	Not identified as a possible, probable, or confirmed carcinogen.
Germ Cell Mutagenicity:	Not available.
Reproductive Toxicity:	Not available.

Other Comments

None.

Toxicological Effects of Components

Toxicological Information		
Component	Category	Data Selection Contractor Di
Sulfur (7704-34-9)	Toxicity	Dermal LD50: >2000 mg/kg (rabbit); Oral LD50: >5000 mg/kg (rat); Inhalation LC50: >9.23 mg/L/4 hours (rat).
	Exposure Routes	Not available.
	Symptoms	Not available.
	Target Organs	Not available.
	Short-Term Exposure	Irritates the eyes, the skin, and the respiratory tract. Inhalation of powder of this substance may cause inflammation of the nose and the respiratory tract.
	Long-Term Exposure	Repeated or prolonged contact with skin may cause dermatitis. May have effects on the respiratory tract, resulting in chronic bronchitis.

Note: Data for Toxicity were obtained from the U.S. National Library of Medicine TOXNET. Data for Exposure Routes, Symptoms, and Target Organs were obtained from the NIOSH Pocket Guide to Chemical Hazards. Data for Short- and Long-Term Exposure were obtained from the International Chemical Safety Cards from the International Occupational Safety and Health Information Centre.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:	Not available.	
Persistence & Degradability:	Not available.	
Bioaccumulative Potential:	Not available.	1 2.1
Mobility:	Not available.	
Other Adverse Effects:	Not available.	

SECTION 13 - DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable federal, state, and local requirements and regulations.

This material, when discarded or disposed of as produced, is not specifically listed as a hazardous waste in federal regulations; however it may be characteristically hazardous if it is considered toxic, corrosive, ignitable, or reactive according to federal definitions (40 CFR 261). Additionally, this material may be designated as hazardous according to state and/or local regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT – United States – Department of Transportation

Shipping Name: Sulfur, molten ID Number: NA2448 Hazard Class: 9 Packing Group: III

SECTION 15 - REGULATORY INFORMATION

United States Regulations

CERCLA/SARA Section 311/312 (Title III Hazard Categories)

Acute Health:	No
Chronic Health:	No
Fire Hazard:	Yes

Pressure Hazard: No Reactive Hazard: No

This material may contain one or more of the following chemicals identified by the EPA under Title 40 of the Code of Federal Regulations (CFR), including the EPCRA section 302 (40 CFR Part 355), EPCRA section 304 (40 CFR Part 355), EPCRA sections 311/312 (40 CFR Part 370), EPCRA section 313 (40 CFR Part 372), CERCLA sections 102/103 (40 CFR Part 302), Clean Air Act (CAA) 111(r) (40 CFR Part 68), and/or TSCA (40 CFR 700-766).

This material may contain one or more chemicals identified on individual state hazardous substances lists. Contact each jurisdiction for more information.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16 — OTHER INFORMATION

Preparation & Version Information

Version 004 - Last revision on 2015-02-27.

Prepared by Certified Environmental Management, Ltd. (www.cemih.com).

Guide to Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
CAA	Clean Air Act (United States)
CAS	Chemical Abstracts Service
CEIL	Ceiling Exposure Limit
CERCLA	The Comprehensive Environmental Response, Compensation, & Liability Act (United States)
CFR	Code of Federal Regulations (United States)
EINECS	European chemical Substances Information System
EPA	Environmental Protection Agency (United States)
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
NFPA	National Fire Protection Association
NTP	National Toxicology Program (United States)
OSHA	Occupational Safety and Health Administration (United States)
PEL	Permissible Exposure Limit (OSHA)
SARA	Superfund Amendments and Reauthorization Act (United States)
TLV	Threshold Limit Value (ACGIH)
TSCA	Toxic Substances Control Act (United States)
TWA	Time Weighted Average (8 hours)
TSCA	Toxic Substances Control Act (United States)
TWA	Time Weighted Average (8 hours)
UEL	Upper Explosive Limit
UN	United Nations

Disclaimer / Statement of Liability

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this (Material) Safety Data Sheet was prepared. However, neither CHS, Inc., nor any of their subsidiaries, vendors, or contractors, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use.