



Federal Railroad Administration  
Tank Car Damage Assessment Form

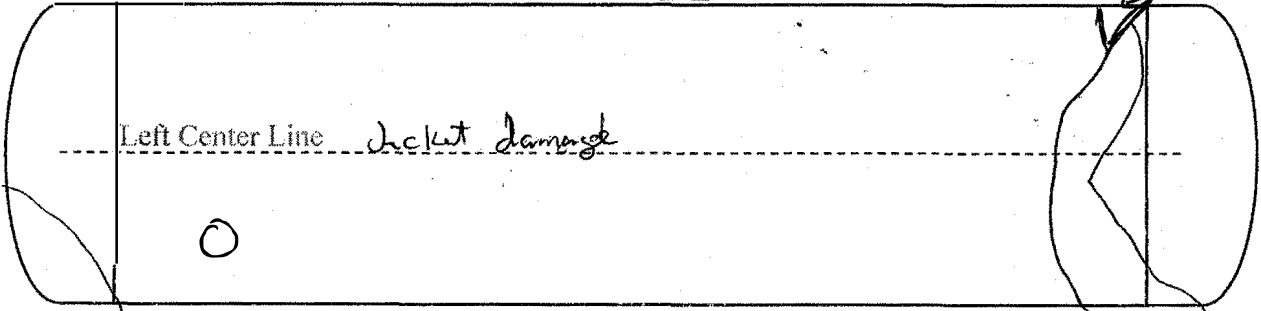
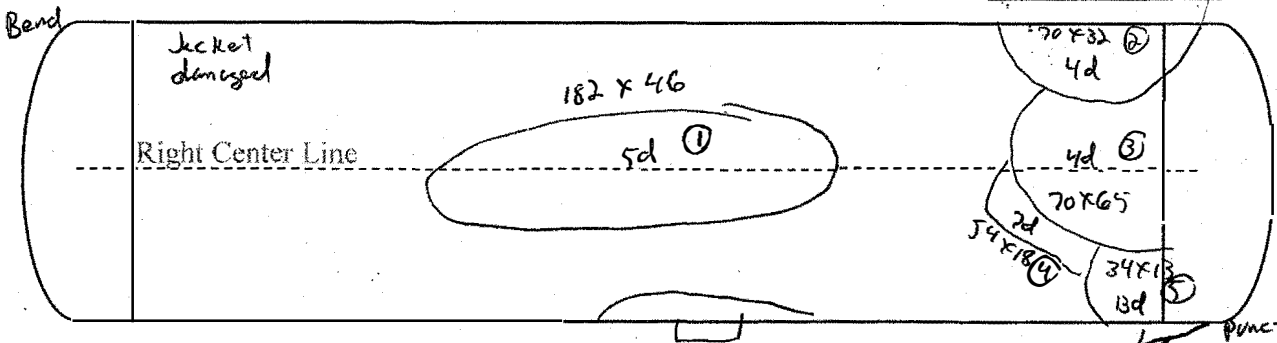
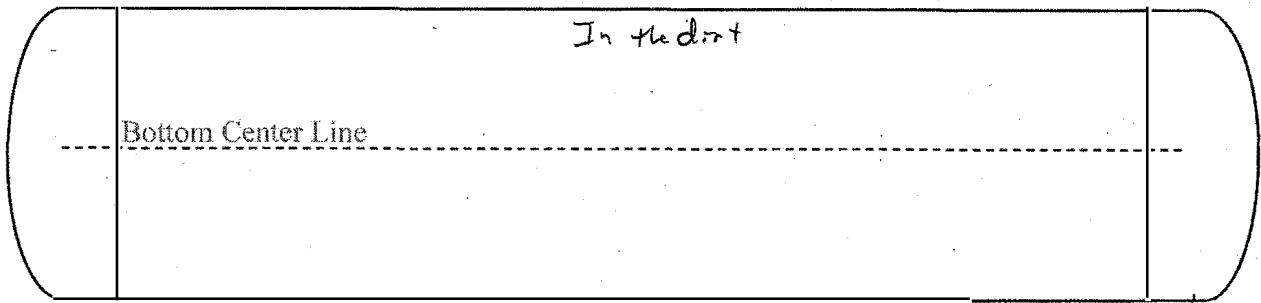
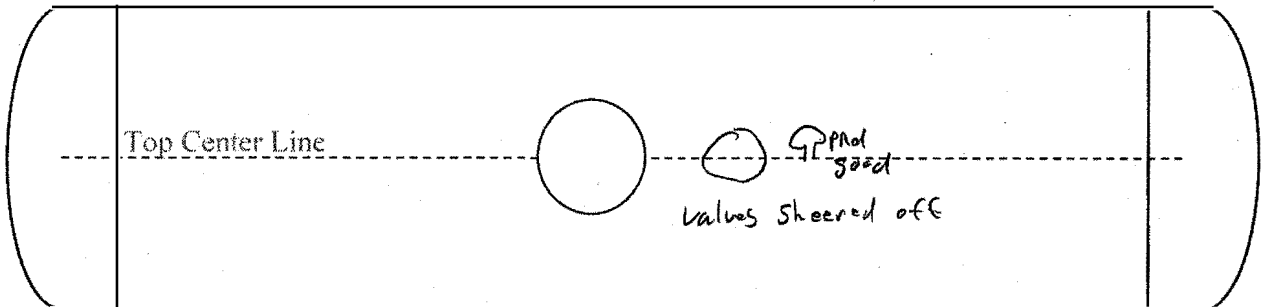
Submit by Email

Print Form

|                    |             |                  |                          |                   |           |
|--------------------|-------------|------------------|--------------------------|-------------------|-----------|
| Reporting Marks    | UTLX 644827 |                  | Car Location City/State  | Reed Point, MT    |           |
| Date inspected     | 7/6/23      | Railroad         | MRL                      | DOT Specification | 111A100W1 |
| Last Contained     | UN3257      |                  | Was product released?    | Yes               |           |
| (Jacket thickness) | Jacket 1196 | Non-jacketed     | Does car contain product | Yes               |           |
| Car builder        | Union Tank  | Stub Sill Design | UTLZBN                   | Built Date        | 4/1/1994  |
| Capacity (GAL)     | 23450       |                  | LD Limit (LB)            | 190700            |           |

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

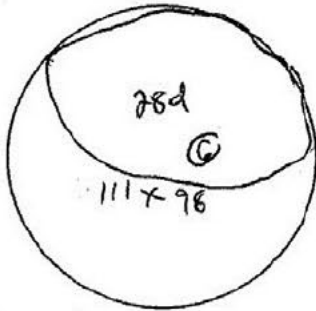
A-END



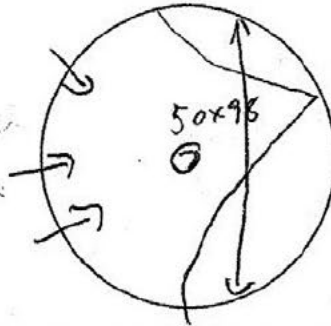


Federal Railroad Administration  
Tank Car Damage Assessment Form

A Head



B Head



|              | Station Stencil | Qual | Due  |
|--------------|-----------------|------|------|
| Tank Qual.   | UTCW            | 2017 | 2027 |
| Thickness    | UTCW            | 2017 | 2027 |
| Serv. Equip. | UTCW            | 2017 | 2027 |
| PRD          | UTCW            | 2017 | 2027 |
| Valve 75psi  |                 |      |      |
| Lining       | UTCW            | 2017 | 2027 |
| Rule 88      | UTCW            | 2017 | 2027 |
| Stub Sill    | UTCW            | 2017 | 2027 |

Comments:

**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?    | Jacket | Location? | Rt Cent  | Dimensions:      | Length                     | 182 | Width | 46 | Depth | 5  |
| -  | Defect type? | Dent   | Shape?    | Oval     | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 2. | Affected?    | Jacket | Location? | Rt A En  | Dimensions:      | Length                     | 70  | Width | 32 | Depth | 4  |
| -  | Defect type? | Dent   | Shape?    | Semicir  | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 3. | Affected?    | Jacket | Location? | Rt A En  | Dimensions:      | Length                     | 70  | Width | 65 | Depth | 4  |
| -  | Defect type? | Dent   | Shape?    | Semicir  | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 4. | Affected?    | Jacket | Location? | Rt A En  | Dimensions:      | Length                     | 54  | Width | 18 | Depth | 7  |
| -  | Defect type? | Dent   | Shape?    | Rectang  | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 5. | Affected?    | Jacket | Location? | Rt A En  | Dimensions:      | Length                     | 34  | Width | 13 | Depth | 13 |
| -  | Defect type? | Dent   | Shape?    | Rectang  | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 6. | Affected?    | Jacket | Location? | A Head   | Dimensions:      | Length                     | 111 | Width | 98 | Depth | 28 |
| -  | Defect type? | Dent   | Shape?    | Circle   | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 7. | Affected?    | Jacket | Location? | B Head   | Dimensions:      | Length                     | 50  | Width | 98 | Depth |    |
| -  | Defect type? | Dent   | Shape?    | Triangle | Possible Cause?  | Derailment/Bridge collapse |     |       |    |       |    |
| 8. | Affected?    |        | Location? |          | Dimensions:      | Length                     |     | Width |    | Depth |    |
| -  | Defect type? |        | Shape?    |          | Possible Ca use? |                            |     |       |    |       |    |

2. Was this tank car exposed to fire? (Indicate one) Yes No X
3. How long was the car exposed to fire? \_\_\_\_\_ N/A X
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?
6. To what degree did the car roll? Initially \_\_\_\_\_ degrees and stopped at \_\_\_\_\_
7. Distance traveled from track center? B-end? \_\_\_\_\_ A-end? \_\_\_\_\_ Center? \_\_\_\_\_
8. Brief description of details of surfaces tank was exposed to in transit to present location? E.g. mud, track, rocks, etc...

Mud, rocks, river.





Federal Railroad Administration  
Tank Car Damage Assessment Form

**VALVE DAMAGE**

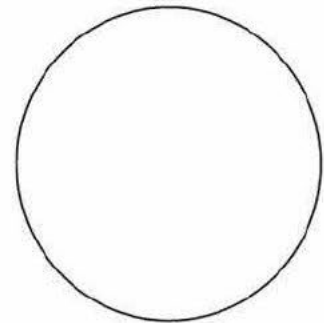
Utilize Form TCAD-1.2 and supplement description as indicative of damage below:

1. Number of damaged valves? N/A **TOP** 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 |  |
| c | Type of damaged valve? |  | Manufacturer? |  | Cause?        |  |
| - | Gasket Type?           |  | O-ring type?  |  | Serial Number |  |
| d | Type of damaged valve? |  | Manufacturer? |  | Cause?        |  |
| - | 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.

A-End



2. Description of damage? Valve, Coils etc... Unknown **BOTTOM** 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 |  |
| c | Type of damaged valve? |  | Manufacturer? |  | Cause?        |  |
| - | Gasket Type?           |  | O-ring type?  |  | Serial Number |  |
| d | Type of damaged valve? |  | Manufacturer? |  | Cause?        |  |
| - | Gasket Type?           |  | O-ring type?  |  | Serial Number |  |
| e | Type of damaged valve? |  | Manufacturer? |  | Cause?        |  |
|   | Gasket Type?           |  | O-ring type?  |  | Serial Number |  |

Other information or description deemed pertinent by inspector:

Tank punctured on left side towards B head.  
Jacket missing of left side, B head and A head.

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



UTLX 644827 A end and left side.





UTLX 644827 left side.



UTLX 644827 B end. The spray-painted A identifies asphalt cars to recovery workers.



UTLX 644827 right side.



| Message Header                               |                      |                |                                  |
|--|----------------------|----------------|----------------------------------|
| Partner: AWI                                 | Control #: 19731104  | Type: 404      | Date/Time: 2023-06-21 15:07:36.0 |
| Correlation Id:<br>1687378056857.133654363AX | Base Correlation Id: | Interface: E   | Message Source Cd: A3            |
| Protocol Cd: MQ                              | App Data Format:     | Transmit Cd: O | From Env Cd:                     |
| Message Size: 1135                           |                      |                |                                  |

**Message Detail**

ISA\*00\* \*00\*RMENDENH \*02\*AWI \*02\*BNSF \*230621\*1507\*U\*00503\*019731104\*1\*P\*~  
GS\*SR\*AWI\*BNSF\*20230621\*1507\*19731104\*X\*005030  
ST\*404\*19731104  
BX\*00\*R\*PP\*\*BNSF\*L\*B\*S  
BNX\*A  
M3\*B\*20230621\*1507\*CT  
N9\*RP\*AWI1107684\*\*20230621\*1507\*CT  
N9\*6O\*AWI-UNIQUE-19731104\*\*20230621\*1507\*CT  
N9\*BM\*411664\*\*20230621\*1507\*CT  
N7\*UTLX\*644859\*178554\*E\*\*\*\*\*RR  
N7\*UTLX\*661234\*178379\*E\*\*\*\*\*RR  
N7\*UTLX\*641341\*179340\*E\*\*\*\*\*RR  
N7\*UTLX\*664879\*179892\*E\*\*\*\*\*RR  
N7\*UTLX\*644827\*178898\*E\*\*\*\*\*RR  
N7\*UTLX\*665072\*179966\*E\*\*\*\*\*RR  
F9\*\*LAUREL\*MT  
D9\*\*COLLINS\*ID  
N1\*SH\*CHS INC\*C5\*143597859  
N3\*803 US HWY 212 S  
N4\*LAUREL\*MT\*59044-8731  
PER\*NT\*RAIGAN MENDENHALL\*TE\*406 [REDACTED]  
N1\*CN\*IDAHO ASPHALT SUPPLY CO  
N3\*75 N. 550 W.  
N4\*COLLINS\*ID\*83221  
N1\*PF\*IDAHO ASPHALT SUPPLY CO  
N3\*PO BOX 50538  
N4\*IDAHO FALLS\*ID\*834050538  
R2\*BNSF\*S\*SVRBO\*\*\*R  
R2\*UP\*1\*\*\*R  
LX\*1  
L5\*1\*ELEVAT\*4961605\*T  
L0\*1\*\*\*0\* \*\*\*6\*TKR  
LS\*1  
LH1\*TK\*1\*UN3257\*\*4961605\*\*\*\*\*III  
LH2\*9\*P



**Message Detail**

**LH3\*ELEVATED TEMPERATURE LIQU\*D\*NOS**

**LH3\*ID, N.O.S.\*D**

**LFH\*TEC\*((ASPHALT PETROLEUM LIQUID))**

**PER\*HM\*CHEMTREC CCN23163\*TE\*800-424-9300**

**LE\*1**

**LH6\*BRANDON GAUTHIER**

**SE\*40\*19731104**

**GE\*1\*19731104**

**IEA \*1\*019731104**

Waybill Copy

BNSF 06/25 04:58:58 WME

777 - BNSF RAILWAY COMPANY

- 777

\*\*\*\*\*  
\* H A Z M A T \*  
\*\*\*\*\*

UTLX 644827 T98 126 36 89 062114 06/21/23 886489 UP  
AND 5 OTHERS

04501 COLLINS

ID

30855 LAUREL

MT

MISSOULA

MT

S

BNSF SVRBO UP

CHS

411664

803 US HWY 212 S

0000

IDAHO ASPHALT SUPPLY CO  
75 N. 550 W.

COLLINS ID

MULTIPLE CAR SHIPMENT

WWIB WEIGHT AGREEMENT

YES  
TO BE PREPAID

4961605

HAZARDOUS SHIPMENT TOTAL LADING WT 178898

1 TK // 178554 LB

UN3257 // ELEVATED TEMPERATURE LIQUID, N.O.S.  
(ASPHALT PETROLEUM LIQUID)

9 // PG III

EMERGENCY CONTACT: 800-424-9300

SHIPPER CONTACT: CHEMTREC CCN23163

HAZMAT STCC=4961605

NATURAL KEY WB-ID 5222-06-21-11.27.29.672023 WB-VRSN 002

EDI 404 WGHT CD: A

ELEVAT

VOLUME LB

HAZ CERT BRANDON GAUTHIER

EDI 404 RECVD FROM AWI MSG SEQ# 19731104 ON 20230621 AT 1507 BILL CD

Spec Cond Codes N9 TN overridden by WBMSPLAC 06/21/23 15:07

PROJ RT I BNSF SVRBO I UP

UTLX 644827

HTUA SPEED RESTRICTION MAY APPLY. SEE SSI.  
MULTIPLE CAR SHIPMENT

WEIGHT AND CHARGE TO FOLLOW PREPAID

TP IDAHOASPSUPP 2535 N 15TH E

IDAFALLS ID 0753850002

ZS INTELLITRANS

ZS SHIPXPRESS

SERVICE SCHEDULING

2023-06-21 10.27.00 2023-06-21 14.07.00



YRDPDRCR

\*\*\*\*\* Yard System \*\*\*\*\*

06/25/23

S B JOINER

- Car Inquiry -

02:59:02PT 4 >

UTLX 644827 <T98/T50> on trn M-LAUMIS1-23A seq 41 departed LAURMT 06/24 0505 2  
IN POOL P8219 LENGTH = 55 FT 5 in STCC: 4961605

| L | Online | J  | RAJP/  | Offline      | Dest     | Evnt |      |      |      | Station             |
|---|--------|----|--------|--------------|----------|------|------|------|------|---------------------|
| E | Destin | T  | IndNum | Care of/Cust | Contents | CdSt | Trk  | Date | Time | Train               |
| L | SILBOW | UP |        | SILBOWMT     | HAZMAT   | TD   | 207  | 0624 | 0505 | M-LAUMIS1-23ALAURMT |
| L | SILBOW | UP |        | SILBOWMT     | HAZMAT   | SWWE | 207  | 0622 | 1849 | Y-LAU2242-22GLAURMT |
| L | SILBOW | UP |        | SILBOWMT     | HAZMAT   | SWWE | 203  | 0622 | 0410 | Y-LAU3362-21GLAURMT |
| L | SILBOW | UP |        | SILBOWMT     | HAZMAT   | SWWE | 210  | 0622 | 0210 | Y-LAU2151-21ILAURMT |
| L | SILBOW | UP |        | SILBOWMT     | HAZMAT   | RIPR | 300  | 0621 | 2020 | Y-LAU2151-21ILAURMT |
| L | SILBOW | UP |        | SILBOWMT     | HAZMAT   | WBMA | 1202 | 0621 | 1407 | LAUREL MT           |
| L | LAURMT |    |        | T/BLAUCHS    | HAZMAT   | RIRL | 1202 | 0621 | 1027 | LAUREL MT           |
| E | LAURMT |    | 120203 | CHS          | HAZMAT   | PNFN | 1202 | 0621 | 0506 | LAUREL MT           |
| E | LAURMT |    | 120203 | CHS          | HAZMAT   | APPL | 1202 | 0621 | 0506 | Y-LAU3151-21GLAURMT |
| E | LAURMT |    | 120203 | CHS          | HAZMAT   | OT   | 127  | 0621 | 0505 | LAUREL MT           |

Car is ordered using-CISS

|   |        |  |        |          |        |      |     |      |      |                     |
|---|--------|--|--------|----------|--------|------|-----|------|------|---------------------|
| E | LAURMT |  | 120201 | CHS      | HAZMAT | SWWE | 127 | 0620 | 1606 | INV ADJUST LAURMT   |
| E | LAURMT |  | 120201 | CHS      | HAZMAT | SWWE | 128 | 0620 | 1603 | Y-LAU1161-20GLAURMT |
| E | LAURMT |  | 120201 | CHS      | HAZMAT | SWWE | 117 | 0619 | 0114 | Y-LAU3352-18GLAURMT |
| E | LAURMT |  | 120201 | CHS      | HAZMAT | SWWE | 101 | 0618 | 2010 | Y-LAU2242-18GLAURMT |
| E | LAURMT |  | 120201 | CHS      | HAZMAT | CPFX | 213 | 0618 | 1430 | LAUREL MT           |
| E | LAURMT |  | 120201 | CHS      | HAZMAT | PNFN | 213 | 0618 | 1430 | LAUREL MT           |
| E | LAURMT |  | MRL    | LAURELMT | HAZMAT | DD   |     | 0618 | 1418 | H-NTWLAU1-16ALAURMT |

This transaction recorded for accounting purposes.

|   |        |    |        |           |        |      |      |      |      |                     |
|---|--------|----|--------|-----------|--------|------|------|------|------|---------------------|
| E | LAURMT |    | 120201 | CHS       | HAZMAT | TA   | 213  | 0618 | 1417 | H-NTWLAU1-16ALAURMT |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | TD   | 2207 | 0617 | 1320 | H-NTWLAU1-16AABERSD |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | SWEE | 2207 | 0617 | 0900 | R-TWI8903-17IABERSD |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | TA   | 2201 | 0616 | 1415 | H-WLMABE4-16AABERSD |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | TD   | 102  | 0616 | 0720 | H-WLMABE4-16AWILLMA |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | TA   | 102  | 0616 | 0434 | H-KCKWLM1-14AWILLMA |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | TD   | 4006 | 0614 | 1548 | H-KCKWLM1-14AKANCKS |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | SWRR | 4097 | 0613 | 1014 | Y-KCK1012-13HKANCKS |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | RR   | 4012 | 0613 | 0930 | T-UP 1-13RKANCKS    |
| E | LAURMT |    | 120201 | CHS       | HAZMAT | WBMS |      | 0609 | 0950 | KANCITY MO          |
| L | KANCKS | UP |        | KANCITYKS | HAZMAT | DD   | 4096 | 0530 | 0802 | T-KCKUP 1-30DKANCKS |
| L | KANCKS | UP |        | KANCITYKS | HAZMAT | DDOF | 4096 | 0530 | 0100 | KANCITY KS          |

UTLX 644827 from BNSF offered to UP at KANCITY KS trk 4096 on 2023-05-30 at  
01.00.00 D S PETERS notified TM by COMP

|   |        |     |  |           |        |      |      |      |      |                     |
|---|--------|-----|--|-----------|--------|------|------|------|------|---------------------|
| L | KANCKS | UP  |  | KANCITYKS | HAZMAT | TA   | 4026 | 0529 | 0447 | H-PASKCK9-22AKANCKS |
| L | KANCKS | UP  |  | KANCITYKS | HAZMAT | TDPK |      | 0526 | 1201 | H-PASKCK9-22AHUNTLE |
| L | KANCKS | MRL |  | KANCITYKS | HAZMAT | RRRT |      | 0524 | 2345 | H-PASKCK9-22ALAURMT |

This transaction recorded for accounting purposes.

|   |        |    |  |           |        |    |     |      |      |                     |
|---|--------|----|--|-----------|--------|----|-----|------|------|---------------------|
| L | KANCKS | UP |  | KANCITYKS | HAZMAT | TD | 111 | 0524 | 2346 | H-PASKCK9-22ALAURMT |
|---|--------|----|--|-----------|--------|----|-----|------|------|---------------------|

\*\*\*\*\* End of Data \*\*\*\*\*

06/21/2023 CHS INC B/L # 411664

|                 |   |             |               |
|-----------------|---|-------------|---------------|
| Shipper         | CHS INC<br>803 US HWY 212 S             | LAUREL      | MT 59044-8731 |
| Consignee       | IDAHO ASPHALT SUPPLY CO<br>75 N. 550 W. | COLLINS     | ID 83221      |
| Third Party Pay | IDAHO ASPHALT SUPPLY CO<br>PO BOX 50538 | IDAHO FALLS | ID 834050538  |

|                  |                 |    |               |                   |
|------------------|-----------------|----|---------------|-------------------|
| Origin:          | LAUREL          | MT | Prepared by:  | RAIGAN MENDENHALL |
| Destination:     | COLLINS         | ID | Phone Number: | 4066285214        |
| Sec 7 (Y/N):     | Yes             |    |               |                   |
| Freight Charges: | "To Be Prepaid" |    |               |                   |

**Route Details:**

|                      |           |                       |   |
|----------------------|-----------|-----------------------|---|
| Origin Switch Road:  | Junction: | Delivery Switch Road: | Junction:   |
| Route: BNSF SVRBO UP |           |                       |   |
| Rule 11 (Y/N):       | No        |                       |   |
| Contract(s) #:       | -         |                       |   |
| ELEVAT               | 4961605   | Loaded 6              | Tank Car Agreement Weights<br>Estimated Weights<br>1,075,029 Pounds |

HAZARDOUS MATERIALS  
 1 Tank  
 UN3257 // ELEVATED TEMPERATURE LIQUID, N.O.S.  
 (ASPHALT PETROLEUM LIQUID)  
 9 // PG III

Emergency Telephone : 800-424-9300  
 Emergency Offeror & Contract# or Holder : CHEMTREC CCN23163  
 HAZMAT STCC = 4961605

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

PG 58-28

| INIT NUMBER | WEIGHT | SEALS | DUNNAGE REFERENCE |
|-------------|--------|-------|-------------------|
| UTLX 644859 | 178554 |       | 0                 |
| UTLX 661234 | 178379 |       | 0                 |
| UTLX 641341 | 179340 |       | 0                 |
| UTLX 664879 | 179892 |       | 0                 |
| UTLX 644827 | 178898 |       | 0                 |
| UTLX 665072 | 179966 |       | 0                 |

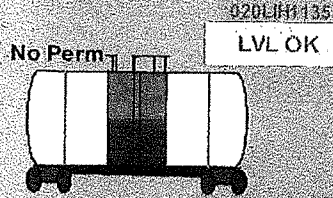
STATUS: Accepted-824 Date: 06/21/2023 Time: 15:07 CST WAYBILL #: 886485

Load Message:

Load Cleared

Reason For Load Stop: **Volume Set Point Reached**

0.1



**Products Available**  
Asphalt

020FI2032  
999.3GPM

020TI2092  
342.9°F

Load Setup

Car Number: [ ]  
 Product: [ ]  
 Gallons Capacity: [ ]  
 Load Limit: [ ]  
 Order Number: [ ] Safety Margin: [ ]

Current Load

Timestamp: 2022-03-09T08:01:58  
 Order Number: 0  
 Car Number: UTLX | 0  
 Product: None  
 Target Volume: 21574.0  
 Target Weight: 175444.0  
 Avg. Temperature: 0.0  
 Total Volume: 0.0  
 Total Weight: 0.0  
 Duration: 0h, 0m, 0s  
 Weight Left in Load: 175444.0  
 Volume Left in Load: 21574.0

BOL Transaction Summary

2023-06-21T09:09:34  
 Order Number: 22419  
 UTLX | 644827 | Car Number  
 TK149  
 Target Volume: 21574.0  
 Target Weight: 175444.0  
 Average Temperature: 342.7  
 Gross Gallons Loaded: 21579.4  
 Total Weight Loaded: 169505.1  
 Loading Duration: 0h, 25m, 50s  
 Net Gallons Loaded: 19607.3  
 API Gravity: 58.8

|  |   |
|--|---|
| <p>TK148<br/>009PIC2013</p> <p>AUTO +</p> <p>PV: 32.8psig<br/>SP: 20.0psig<br/>OUT: 100.0%</p> <p>99.6</p> | <p>009LI2012<br/>31.20ft</p> <p>009PIC2013<br/>60.0%</p>  |
| <p>TK149<br/>009PIC2033</p> <p>AUTO -</p> <p>PV: 87.5psig<br/>SP: 150.0psig<br/>OUT: 0.0%</p> <p>-0.6</p>  | <p>009LI2032<br/>43.67ft</p> <p>009PIC2033<br/>100.0%</p> |
| <p>TK150<br/>009PIC2053</p> <p>AUTO +</p> <p>PV: 49.5psig<br/>SP: 20.0psig<br/>OUT: 100.0%</p> <p>98.9</p> | <p>009LI2052<br/>48.03ft</p> <p>009PIC2053<br/>60.0%</p>  |



CHS

8" out

Attention Needed



# Asphalt Tank Car Inspection

Car Number UTLX 644827 Track/Spot 1202 Spot 3 Date Wednesday, June 21, 2023  
 Placard UN3257 Product PG 58-28 Tank car Capacity 23450  
 Order # 22419 Manway Style UTC 1 RR Load Limit 190700

## 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  | / |
| Qualification stencils have been reviewed, and the Car is not overdue for any tests, qualifications, or inspections   | / |
| The 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   | / |
| All safety appliances are in proper condition and have no residue or corrosion  | / |
| The Car has no items attached that may indicate a security breach   | / |
| All Fittings, valves, gaskets and fasteners are in proper condition   | / |
| <ul style="list-style-type: none"> <li>Materials are not corroded, torn, worn, stripped or damaged</li> </ul>   | / |
| Any residue in the car is less than 3" and compatible with the product being loaded   | / |
| All wheels, trucks, brakes, springs in good condition.  | / |
| <ul style="list-style-type: none"> <li>Materials are not corroded, torn, worn, stripped or damaged</li> </ul>   | / |
| Both couplers are Double Shelf Couplers   | / |
| 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   | / |
| 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   | / |
| The manway nozzle sealing surface is free of gouges, nicks, corrosion, displaced metal, residual commodity and remnants of old gaskets  | / |
| The Manway hinge pins and eyebolts are in place and in proper condition   | / |
| <ul style="list-style-type: none"> <li>Hing pins operate freely and are not bent, cut, or damaged</li> <li>Safety eyebolts are present at the proper location across from the nozzle hinges</li> <li>Eyebolt slots and ears are not bent, worn, damaged, or deformed</li> <li>Eyebolt, nuts and washers are not bent, damaged, corroded, and are free of excessive paint. or commodity</li> <li>Eyebolt nuts are sized fully to bridge the eyebolt slots and washers are not cupped/deformed</li> </ul> | / |
| 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   | / |

Print Inspectors Name

Date

**Car is ok to Load**

[Redacted Name]

6/21



## Asphalt Tank Car Inspection

Car Number UTLX 644827 Track/Spot 1202 Spot 3 Date Wednesday, June 21, 2023  
Placard UN3257 Product PG 58-28 Tank car Capacity 23450  
Order # 22419 Manway Style UTC 1 RR Load Limit 190700

### Final Inspection

|  |         | Initials |
|--|---------|----------|
| <b>ALL</b> valves, fittings, closures, plugs, caps and fasteners verified closed and tool tight with a 36" pipe wrench |         |          |
| Manway cover is properly secured per CHS manway procedures.  |         |          |
| Car shows no signs of vapor or liquid leaking  |         |          |
| Car is clean and free of spillage  |         |          |
| <b>Car Seal Numbers</b>  |         |          |
| Final Torque on Manway Bolts   | 110     |          |
| Bottom Outlet Valve Handle   | 2726287 |          |
| Protective Housing   |         |          |
| Manway Cover   | 2726328 |          |
| Date Completed If other than Pre-inspection  |         |          |



# Petroleum Asphalt Cements

## Safety Data Sheet

Version 002 — Last revision on 2014-05-29

### SECTION 1 — IDENTIFICATION

Product Name: Petroleum asphalt cements  
Product ID: CNX-003  
Synonyms: Bitumen; paving asphalt; penetrating asphalt cements; roofing flux; viscosity graded asphalt  
Molecular Formula: Mixture  
Chemical Family: Petroleum hydrocarbon  
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



Harmful if inhaled (H332).  
Suspected of causing cancer (H351).

#### PREVENTION

Obtain special instructions before use (P201).  
Do not handle until all safety precautions have been read and understood (P202).  
Avoid breathing fume, gas, or vapors (P261).  
Use only outdoors or in a well-ventilated area (P271).  
Wear gloves and eye protection (P280).  
Use personal protective equipment as required (P281).

#### RESPONSE

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

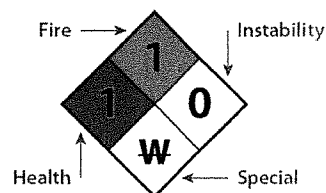


(P304 + P340).  
**IF EXPOSED OR CONCERNED:** Get medical advice/attention (P308 + P313).  
 Call a poison center or doctor/physician if you feel unwell (P312).  
 Wash contaminated clothing before reuse (P363).

**Hazard Classifications (OSHA / GHS)**

Acute toxicity, inhalation – Category 4  
 Carcinogenicity – Category 2

**NFPA**



**Potential Health Effects**

- Eye Health Effects:** Contact may cause mild irritation including stinging, watering and redness. Contact with heated material may cause thermal burns. Vapors or fumes may cause watering of the eyes.
- Skin Health Effects:** Contact may cause mild to moderate skin irritation. Prolonged or repeated contact may worsen irritation by causing drying and cracking of the skin leading to dermatitis (inflammation). Long-term skin exposure can increase sensitivity to the sun and cause discoloration. Contact with the heated material may cause thermal burns. Fumes from heated material can also cause irritation. No harmful effects from skin absorption are expected.
- Inhalation Health Effects:** Inhalation of high vapor concentrations may cause respiratory irritation, headaches, dizziness or nausea, unconsciousness, and possibly death.
- Under certain conditions, sulfur compounds in hot product may liberate hydrogen sulfide (H<sub>2</sub>S) gas. Cooling product may continue to emit traces of H<sub>2</sub>S temporarily from entrapped or dissolved gases. Exposure to high concentrations of H<sub>2</sub>S (> 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:** Ingestion may cause irritation of the digestive tract, nausea, vomiting and diarrhea.
- Carcinogenic Effects:** Repeated and prolonged exposure may be harmful and may cause cancer.

| <b>Carcinogenic Effects</b> |                                |                                   |   |
|-----------------------------|--------------------------------|-----------------------------------|---|
| <b>Component</b>            | <b>NTP</b>                     | <b>IARC</b>                       | <b>OSHA</b>   |
| Asphalt (8052-42-4)         | Known to be a human carcinogen | Carcinogenic to humans (Group 2B) | May contain Benzene (CAS: 71-43-2), which is specifically listed in 29 CFR 1910 subpart Z |

|  |   |                                  |  |
|--|---|----------------------------------|--|
| Polycyclic aromatic hydrocarbons (130498-29-2) | Reasonably anticipated to be a human carcinogen | Carcinogenic to humans (Group 1) | Not specifically listed in 29 CFR 1910 subpart Z |
|--|---|----------------------------------|--|

### Potential Environmental Effects

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

## SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Ingredients            |             |           |           |            |
|----------------------------------|-------------|-----------|-----------|------------|
| Name                             | CAS #       | RTECS #   | EINECS #  | % (Weight) |
| Asphalt                          | 8052-42-4   | VV7330000 | 238-878-4 | > 99 %     |
| Polycyclic aromatic hydrocarbons | 130498-29-2 | ---       | ---       | < 5 %      |
| Hydrogen sulfide                 | 7783-06-4   | BD1200000 | 215-691-6 | < 0.1 %    |

## SECTION 4 — FIRST-AID MEASURES

### 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

Remove contaminated clothing and shoes. Wash area of contact thoroughly with soap and plenty of water. If irritation persists, seek medical attention. Wash clothing separately before reuse. If hot material contacts skin, place affected area under cold water. For severe burns over a large area of the body, immediately seek medical attention.

It is not usually advisable to immediately remove asphalt material from skin, as underlying tissue may easily be torn away. Natural separation will occur in 48 - 72 hours. For small amounts of material on skin, use mineral oil, mineral oil ointment, or commercial products specific for asphalt removal (such as DESOLV-IT) may be applied to soften the asphalt to facilitate removal. For larger amounts, removal should only be attempted under the direction of a physician.

If skin is contaminated with cool, solid asphalt, the area should be cleaned with waterless skin cleanser followed by soap and water.

## Inhalation

Move to 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, if necessary.

## Ingestion

Do not induce vomiting. Seek medical attention.

## Notes to Physicians

Once it has cooled, adhered asphalt is not harmful to the skin and in fact provides a sterile cover over the affected area. The asphalt will detach itself, usually after a few days as healing occurs. If it is necessary to remove the asphalt, only medically approved solvents or warm paraffin should be used to prevent further skin damage.

If heated, this material may liberate hydrogen sulfide (H<sub>2</sub>S). At high concentrations H<sub>2</sub>S 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<sub>2</sub>S 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

Pre-existing skin or eye problems may be aggravated by prolonged exposure.

## Other Comments

Before attempting rescue, first responders should be alert to the possible presence of hydrogen sulfide (H<sub>2</sub>S), a poisonous gas, and should consider the need for respiratory protection (see *Section 8*).

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## SECTION 5 – FIRE-FIGHTING MEASURES

### NFPA 704 Hazard Classes:

Health: 1 (Slight)  
Flammability: 1 (Slight)  
Instability: 0 (Minimal)  
Other Hazards: May react violently with water

### Unusual Fire and Explosion Hazards

This material is flammable at temperatures above 500 °F (260 °C), but will not ignite readily. Flammable and toxic hydrogen sulfide (H<sub>2</sub>S) may form in closed tank headspaces. Flammability of headspace vapors containing H<sub>2</sub>S



will differ appreciably from the values given for asphalt. Hot asphalt may ignite flammable mixtures on contact. If water is applied to heated asphalt, it can cause violent foaming and boil over.

### Extinguishing Media

Foam, dry chemical, carbon dioxide, and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Do not use a water stream. Water stream may cause violent eruptions and spreading of asphalt. Further application of water may lead to boil over. Water or foam may cause frothing.

### Protection of Firefighters

Wear eye protection. Structural firefighters must use a self-contained breathing apparatus and full protective equipment. 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. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### Other Information

Combustion Products: Fumes, smoke, carbon monoxide, and aldehydes. Hydrogen sulfide and oxides of sulfur may also be formed.

Flammable Properties: See *Section 9* for Flash Point, Explosive Limits, etc.

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## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Keep public away. Avoid skin contact. Avoid breathing vapors, fumes, or gas. Wear appropriate protective equipment as conditions warrant (see *Section 8*).

### Environmental Precautions

Keep product out of sewers and watercourses. Assure conformity with applicable government regulations.

### Containment Procedures

Shut off the source of the leak if possible to do so without hazard. Eliminate all ignition sources. Advise the National Response Center (800-424-8802) if the material has entered a watercourse. Advise local and state emergency services, if appropriate. Contain liquid with sand, soil, or other absorbent material. Dike and divert spill into natural containment areas.

### Clean-up Procedures

Recover and return free material to source. Use suitable sorbents to clean up residual liquids.

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## SECTION 7 — HANDLING AND STORAGE

### Handling

Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.

A written hot work permit is required for any repair or maintenance operations on any equipment, piping, container, or tank containing or contaminated with this chemical material, when any open flame, burning, acetylene cutting, arc welding, brazing, grinding, sand blasting, use of electrical power tools, or any spark producing operations are required for said repair and maintenance. The equipment, piping, container, or tank to be worked on should be drained, steamed, water washed, isolated and/or blinded, ventilated, or any combination of these, as deemed necessary to provide a safe hot work environment. The equipment, piping, container, or tank, and the surrounding area, should be inspected and tested for the percent of the lower explosive limit (LEL) and for toxic gas concentrations. Combustible material in the area should be protected or removed. Proper lockout/tagout and confined space entry procedures should be observed at all times. Each situation should be evaluated on an individual basis by competent safety personnel, who shall make all final determinations as to safety, proper personal protective equipment (PPE), and issuance of hot work permits.

For work on tanks, refer to Occupational Safety and Health Administration (OSHA) regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

Because hydrogen sulfide (H<sub>2</sub>S) may accumulate in tanks and bulk transport compartments, personnel should stand upwind, keep their faces at least two feet from compartment openings, and avoid breathing vapors when opening hatches and dome covers. Prolonged breathing of 50 - 100 ppm of H<sub>2</sub>S may produce eye and respiratory tract irritation, headache, nervousness, and nausea. Very short exposures to high concentrations of H<sub>2</sub>S (e.g., 700 - 1000 ppm) may lead to unconsciousness, respiratory paralysis, and death.

### Storage

This material is typically stored, transported, and used at temperatures above 275 °F (135 °C). Keep containers and storage containers closed when not in use. Do not store near heat, sparks, flame, or strong oxidants.

Hot asphalt must never be added to a tank or other container that is not completely dry. Contact with water results in violent expansion as the water turns to steam. This can lead to dangerous boil over and may cause damage or rupture of the tank or container. Keep away from any incompatible material (see *Section 10*).

Toxic quantities of hydrogen sulfide (H<sub>2</sub>S) may be present in storage tanks and bulk transport vessels, which contain or have contained this material. Persons opening or entering these compartments should first determine if H<sub>2</sub>S is present.

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## 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:** Minimize breathing vapors, fumes, or gases. Ensure adequate ventilation. Use supplied-air respiratory protection in confined or enclosed spaces, or when hydrogen sulfide (H<sub>2</sub>S) exceeds permissible limits.
- 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:** Avoid skin contact. Wear gloves to protect against skin contact. The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. 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

Use local exhaust to capture vapor, mists, or fumes when handling hot product, if necessary. Provide ventilation sufficient to prevent exceeding recommended exposure limits or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment.

## Exposure Limits / Guidelines

| Component                                      | ACGIH TLV   | NIOSH REL   | OSHA PEL   |
|--|---|---|--|
| Asphalt (8052-42-4)                            | TWA: 0.5 mg/m <sup>3</sup>                                  | STEL: 5 mg/m <sup>3</sup>   | ---  |
| Polycyclic aromatic hydrocarbons (130498-29-2) | TWA: 0.2 mg/m <sup>3</sup><br>(as coal tar pitch volatiles) | TWA: 0.1 mg/m <sup>3</sup><br>(as coal tar pitch volatiles,<br>cyclohexane-extractable<br>fraction) | TWA: 0.2 mg/m <sup>3</sup><br>(as coal tar pitch volatiles,<br>benzene-soluble fraction) |
| Hydrogen sulfide (7783-06-4)                   | TWA: 1 ppm<br>STEL: 5 ppm                                   | CEIL: 10 ppm  | CEIL: 20 ppm<br>Maximum: 50 ppm<br>(for 10 minutes)                                      |

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.

**Supplemental Information**

| Notations   |   |               |               |
|---|---|---------------|---------------|
| Component   | NIOSH IDLH  | Skin Notation | Sensitization |
| Polycyclic aromatic hydrocarbons<br>(130498-29-2) | 80 mg/m <sup>3</sup><br>(as coal tar pitch volatiles) | ---           | ---           |
| Hydrogen sulfide (7783-06-4)                      | 100 ppm   | ---           | ---           |

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

|                           |  |
|---------------------------|--|
| Physical Form             | Solid at ambient temperature, viscous liquid when heated |
| Appearance                | Black  |
| Odor                      | Characteristic sour, tar-like odor                       |
| Odor Threshold            | <i>Not available</i>                                     |
| pH                        | <i>Not available</i>                                     |
| Freezing Point            | 131 °F (55 °C)   |
| Boiling Point             | > 650 °F (> 340 °C)                                      |
| Flash Point               | > 450 °F (> 232 °C) by open cup                          |
| Flammability              | Non-combustible  |
| Explosive Limits          | 0.9 % (LEL) – 7.0 % (UEL)                                |
| Evaporation Rate          | <i>Not available</i>                                     |
| Vapor Pressure            | < 0.1 mmHg at 68 °F (20 °C)                              |
| Vapor Density             | > 5  |
| Specific Gravity          | 1.0 – 1.1  |
| Density                   | 8 – 9.5 lbs/gal  |
| Solubility                | Negligible   |
| Partition Coefficient     | <i>Not available</i>                                     |
| Auto-ignition Temperature | > 905 °F (485 °C)  |
| Decomposition Temperature | <i>Not available</i>                                     |
| Viscosity                 | <i>Not available</i>                                     |
| Molecular Formula         | <i>Not available</i>                                     |
| Molecular Weight          | <i>Not available</i>                                     |



**SECTION 10 — STABILITY AND REACTIVITY**

Stability: Stable under normal temperature conditions and recommended use.

Conditions to Avoid: Hydrogen sulfide (H<sub>2</sub>S) from the material can react with the iron in an asphalt storage tank to form ferrous sulfide, which is pyrophoric. Water in contact with hot asphalt may result in a violent reaction causing an increase in tank pressure and substantial foaming and frothing of the product.

Incompatible Materials: Strong oxidants; concentrated oxygen; sodium hypochlorite; calcium hypochlorite.

Hazardous Polymerization: Not known to occur.

**SECTION 11 — TOXICOLOGICAL INFORMATION**

**General Toxicity**

Signs and Symptoms: Effects of over-exposure may include irritation of the digestive tract, irritation of the respiratory tract, nausea, vomiting, diarrhea and signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Aspiration Hazard: *Not available.*

Sensitization: Not expected to be a skin or respiratory sensitizer.

Specific Target Organs: Acute exposure: eyes, respiratory system, skin. Chronic exposure: respiratory system.

Carcinogenicity: Skin application of asphalt fume condensate fractions has caused tumors in laboratory mice. However, animal studies in which high concentrations of asphalt fumes were breathed for extended periods of time did not cause carcinogenic effects.

Germ Cell Mutagenicity: *Not available.*

Reproductive Toxicity: *Not available.*

**Toxicological Effects of Components**

| Toxicological Information |                     |  |
|---------------------------|---------------------|--|
| Component                 | Category            | Data   |
| Asphalt (8052-42-4)       | Exposure Routes     | Inhalation; skin absorption; skin and/or eye contact.  |
|                           | Symptoms            | Irritation of eyes and/or respiratory system; potential occupational carcinogen.                                       |
|                           | Target Organs       | Eyes; respiratory system.  |
|                           | Short-Term Exposure | The substance is irritating to the eyes and the respiratory tract. The substance when heated causes burns on the skin. |
|                           | Long-Term Exposure  | Fumes of this substance are possibly carcinogenic to humans.   |

|   |                     |   |
|---|---------------------|---|
| Polycyclic aromatic hydrocarbons<br>(130498-29-2) | Exposure Routes     | Inhalation; skin absorption; ingestion; skin and/or eye contact.  |
|   | Symptoms            | Dermatitis; bronchitis; potential carcinogen.   |
|   | Target Organs       | Respiratory system; skin; bladder; kidneys.   |
|   | Short-Term Exposure | The substance is irritating to the eyes, the skin and the respiratory tract. Exposure to sun may enhance the irritating effect and lead to burns.   |
|   | Long-Term Exposure  | Repeated or prolonged contact with skin may cause dermatitis and hyperpigmentation of skin. This substance is carcinogenic to humans.   |
| Hydrogen sulfide<br>(7783-06-4)                   | Exposure Routes     | Inhalation; skin and/or eye contact.  |
|   | Symptoms            | Irritation of the eyes: conjunctivitis, eye pain, lacrimation (discharge of tears), photophobia (abnormal visual intolerance to light), corneal vesiculation; irritation of the respiratory system; apnea, convulsions, or coma; dizziness, headache, lassitude (weakness, exhaustion), irritability, insomnia; gastrointestinal disturbance. |
|   | Target Organs       | Eyes; respiratory system; central nervous system.   |
|   | Short-Term Exposure | The substance is irritating to the eyes and the respiratory tract, and may cause effects on the central nervous system. Exposure may result in unconsciousness or death. Inhalation of gas may cause lung oedema. The effects may be delayed. Rapid evaporation of the liquid may cause frostbite.  |
|   | Long-Term Exposure  | <i>Not available.</i>   |

Note: 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:                    | Spills into water ways may be harmful to organisms and bottom feeders.                |
| Persistence & Degradability: | This product is estimated to have a slow rate of biodegradation.                      |
| Bioaccumulative Potential:   | This product is not expected to bioaccumulate through food chains in the environment. |
| Mobility:                    | <i>Not available.</i>   |
| Other Adverse Effects:       | <i>Not available.</i>   |

## 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: Elevated Temperature Liquid, N.O.S., (Asphalt)

ID Number: UN3257

Hazard Class: 9

Packing Group: III

**SECTION 15 — REGULATORY INFORMATION****United States Regulations**

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

Acute Health: Yes  
 Chronic Health: Yes  
 Fire Hazard: No  
 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 CAA (40 CFR 50-97), CERCLA (40 CFR 302.4), SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), and/or TSCA (40 CFR 700-766).

| Components Listed by Selected Parts of US 40 CFR |             |            |            |                |            |
|--|-------------|------------|------------|----------------|------------|
| Component  | EPCRA 302   | EPCRA 304  | EPCRA 313  | CERCLA 102/103 | CAA 112(r) |
| Hydrogen sulfide (7783-06-4)                     | 500 lbs TPQ | 100 lbs RQ | Reportable | 100 lbs RQ     | ---        |

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):

WARNING! This product contains a chemical known to the State of California to cause cancer.

**SECTION 16 — OTHER INFORMATION****Preparation & Version Information**

Version 002 – Last revision on 2014-05-29.

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)   |
| RQ     | Reportable Quantity   |
| SARA   | Superfund Amendments and Reauthorization Act (United States)                            |
| TLV    | Threshold Limit Value (ACGIH)   |
| TPQ    | Threshold Planning Quantity   |
| 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.