

Gary Jones

D. R. Hise

4/24/86

VINYL TANK CAR LABELING

Our records search did not reveal any information concerning warning labels on vinyl tank cars prior to 1977. We complied with DOT regulations for tank cars and Ed Begnaud (now retired) of the Cleveland Office was the person we looked to for direction in interpreting details. We looked for a copy of the pre-1977 DOT placards that were standard for VCI cars, but could find none.

In 1977, OSHA, required a warning on the car stating "Cancer Suspect Agent". This warning was on an adhesive label attached to the manway dome housing. In this location any personnel who hooked up the car for unloading would see the sign.

Sorry we could not be more helpful.

Don

D. R. Hise

DRH/bc

cc: W. D. Morse
J. D. Farmer
File

*This letter was written
in regards to a specific
case and in the second
the 1977 was
really an error and
should say 1987.*

Gary Jones

D. R. Hise

4/11/86

VCM SHIPMENTS TO MONSANTO

Attached are Calvert City Shipment Reports showing that we shipped VCI to Monsanto in 1967 and 1968. We could find no quality reports for any of these shipments, so the location being shipped to is unknown. All sources used to try and find the locations met dead ends.

The information you wanted on VCI tank car labeling prior to 1977 is being researched. We expect to have material on this subject by late next week.

Don

D. R. Hise

DRH/bc

Attachments

cc: (w/o Attachments)
W. D. Morse
J. D. Farmer
File 4

T.O. BFG LEGAL 11/28/91
CRAIG ELGUT

68-444- Fax EXT 1127

Monsanto

9 pages

Gary County

21165002

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C.Woods A.Cassity P.Sanderson
F.Carvell K.Hardesty J.Wolff
Location W.Smith

Date December 2, 1968
From Bill Shannon

Subject Calvert City Shipments - November, 1968

VCL

12	Niagara Falls	1,963,420
46	Henry	7,503,130
66	Louisville	12,370,350
103	Avon Lake	16,690,950
	Pennsalt (Dry)	80,070
	Airco (Pipeline)	6,320,208
4	Hooker-Hicksville	622,810
21	Hooker-Stevens	3,619,130
21	Diamond Shamrock	3,606,940
9	Dow	1,977,990
22	Allied	3,684,020
13	Monsanto	2,125,880
30	Union Carbide	4,473,600
7	Stauffer	1,905,780
	TOTAL	66,953,978

HCL

Airco

-0-

ETHYLENE

5	Airco Chem & Plastics	181,040
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VCL

6	(80)	Akron	826,700
4	(70)	Avon Lake	162,140
12	(80)	Louisville	1,652,600
2	(70)	Rohm & Haas	81,200
1	(80)	Rohm & Haas	69,900
	Drums	International	441,000
	Drums	Dupont	11,200
1	(70)	Dupont	2,640
1	(80)	Dupont	138,500
1	(80)	Monsanto	137,500
1	(80)	Armour	68,200
2	(70)	Armour	80,740
2	(70)	Dewey & Almy	74,240
4	(80)	Dow	552,400
1	(80)	Tennessee Eastman	136,900
3	(80)	Master Mix	275,900

TOTAL 4,711,760

PROPYLENE

4	Union Carbide-Canada	398,900
11	U.C.-N.Charleston	1,438,800
1	Airco	78,200

TOTAL 1,915,900

21765003

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C.Woods A.Cassity P.Sanderson
F.Carvell K.Hardesty J.Wolff
Location W.Smith

Date November 4, 1968

From Bill Shannon

Subject Calvert City Shipments - October, 1968

VCL

11	Niagara Falls	1,723,860
52	Henry	8,106,930
54	Louisville	9,901,060
103	Avon Lake	16,594,820
	Pennsalt (Dry)	79,970
	Airco (Pipeline)	6,695,760
2	Hooker-Hicksville	329,610
15	Hooker-Stevens	2,520,900
22	Diamond Shamrock	3,700,820
10	Dow	1,542,020
21	Allied	3,230,010
6	Monsanto	1,063,240
TOTAL		55,489,000

HCL

Airco

-0-

ETHYLENE

5 Airco Chem & Plastics 189,920

VGN

5 (80)	Akron	685,100
4 (70)	Avon Lake	161,220
12 (80)	Louisville	1,638,300
2 (70)	Rohm & Haas	81,340
1 (80)	Rohm & Haas	69,200
	Drums Rohm & Haas	28,000
	Drums Dupont	61,600
3 (70)	Dupont	121,440
10 (80)	Dupont	1,294,100
4 (80)	Monsanto	678,100
1 (90)	Monsanto	801,451
1 (70)	Armour	40,040
1 (70)	Dewey & Almy	33,060
2 (80)	Tennessee Eastman	273,200
1 (80)	Master Mix	68,500

TOTAL 6,034,651

PROPYLENE

3	Union Carbide-Canada	220,300
16	U.C.-N.Charleston	2,130,600
2	U.C.-Institute	263,205
1	Airco	77,900

TOTAL 2,692,005

21165014

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C. Woods A. Cassity P. Sanderson
 F. Carvell K. Hardesty J. Wolff
 Location W. Smith

Date October 1, 1968

From Bill Shannon

Subject

Calvert City Shipments - September, 1968

VCL

10	Niagara Falls	1,559,740
60	Henry	9,199,580
64	Louisville	11,754,890
90	Avon Lake	14,264,610
	Pennsalt (Dry)	78,870
	Airco (Pipeline)	5,884,318
4	Hooker - Hicksville	708,090
15	Hooker - Stevens	2,573,450
17	Diamond Shamrock	2,860,500
1	Dow	216,560
6	Allied	920,040
8	Monsanto	1,432,160
1	Union Carbide	181,900
TOTAL		<u>51,634,708</u>

VCN

4	(80)	Akron	545,700
3	(70)	Avon Lake	120,820
12	(80)	Louisville	1,636,400
1	(80)	Rohm & Haas	67,800
		Drums Rohm & Haas	56,000
		Drums Dupont	16,450
1	(80)	Dupont	133,800
2	(80)	Armour	136,800
1	(70)	Armour	37,200
1	(70)	Dewey & Almy	33,340
TOTAL			<u>2,784,312</u>

HCL

Airco	<u>-0-</u>
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PROPYLENE

5	Union Carbide-Canada	346,300
34	U.C.-N.Charleston	3,187,700
15	U.C.-Institute	1,986,100
TOTAL		<u>5,520,100</u>

ETHYLENE

4	Airco Chem & Plastics	<u>155,300</u>
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21165005

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C. Woods A. Cassity P. Sanderson
 F. Carvell K. Hardesty J. Wolff
 Location W. Smith

Date August 1, 1968

From Bill Shannon

Subject

Calvert City Shipments - July, 1968

VCL

9	Niagara Falls	1,449,880
53	Henry	8,085,970
60	Louisville	11,047,160
112	Avon Lake	17,814,420
	Pennsalt (Dry)	79,970
	Airco (Pipeline)	7,252,004
2	Hocker - Hicksville	352,620
15	Diamond Shamrock	2,678,520
1	Monsanto	184,330
4	Tenneco	724,970
	TOTAL	49,669,844

HCL

Airco

-0-

ETHYLENE

4	Airco Chem & Plastics	154,020
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VCN

5	(80) Akron	539,300
2	(70) Avon Lake	78,800
14	(80) Louisville	1,894,800
2	(70) Louisville (EDC-VCN)	73,840
1	(80) Louisville (EDC-VCN)	132,000
1	(80) Rohm & Haas	67,800
	Drums Rohm & Haas	28,350
	Drum Brecksville	350
	Drums Dupont	35,000
1	(80) Tennessee Eastman	134,700
1	(90) Monsanto	1,031,388
2	(80) Armour	135,900
3	(70) Dewey & Almy	107,500
2	(80) Union Carbide	134,300

TOTAL

4,394,028

PROPYLENE

2	Union Carbide-Canada	226,900
17	U.C.-North Charleston	2,121,400

TOTAL

2,348,300

21165006

B. F. Goodrich Chemical Company

Inter-Organization Correspondence

To C.Woods A.Cassity P.Sanderson
F.Carvell K.Hardesty J.Wolff
Location W.Smith

Date March 1, 1968

From Bill Shannon

Subject Calvert City Shipments - February, 1968

	<u>VCL</u>	
5 Niagara Falls	743,920	
20 Louisville	2,714,650	
30 Henry	4,552,010	
67 Avon Lake	10,707,610	
1 Pennsalt (Dry)	75,900	
Airco - Pipeline	5,041,700	
16 Monsanto	2,431,520	
21 Stauffer	3,603,210	
4 Hooker - Hicksville	735,990	
6 Hooker - Stevens	947,540	
Miscellaneous	4	
TOTAL	<u>31,554,054</u>	

	<u>HCL</u>	
Airco	-0-	

	<u>ETHYLENE</u>	
2 Airco	71,620	
11 Dow	420,200	
TOTAL	<u>491,820</u>	

	<u>PROPYLENE</u>	
4 Union Carbide - Canada	179,400	
1 Olin Mathieson	121,300	
TOTAL	<u>300,700</u>	

	<u>EDC</u>	
Louisville	6,013,193	
Olin Mathieson	99,800	
Rohm & Haas	196,100	
TOTAL	<u>6,309,093</u>	

	<u>SPENT SULFURIC ACID</u>	
Pennsalt	-0-	

	<u>HCM</u>	
Hampshire Chemical	-0-	

	<u>VCN</u>	
13 (70) Akron	576,880	
1 (80) Akron	71,400	
2 (70) Avon Lake	86,040	
4 (70) Louisville	183,980	
(EDC Contaminated)		
17 (80) Louisville	2,016,300	
2 (70) Louisville	85,440	
1 (80) Rohm & Haas	69,200	
Drums Rohm & Haas	42,000	
Drums Dupont	2,800	
1 (70) Dewey & Almy	33,820	
1 (80) Tennessee Eastman	138,900	
6 (80) Monsanto	833,900	
1 (70) Armour	41,680	
1 (80) Armour	69,800	

TOTAL	<u>4,252,140</u>
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<u>SODIUM HYDROXIDE</u>	
Miscellaneous	9
Preston Chemical	32,278
Valley Chemical	38,763
Union Carbide	65,541
Central Soya	65,844
M & T Chemicals	68,224
Reilly Tar & Chemical	68,343
Commercial Solvents	101,843
P B & S Chemical	133,257
Hercules	264,128
Celanese Coatings	265,619
Charles Pfizer	330,044
E.I. Dupont	399,396
Olin Mathieson	923,982
Diamond Shamrock	1,238,860
BFG (Pioneer Chem.)	1,392,901
FMC Corporation	1,400,056
BFG (K.A. Steel)	2,783,146
BFG (St. Louis)	2,802,849
PPG Industries	6,741,871
TOTAL	<u>19,116,954</u>

	<u>GASOLINE</u>	
Mobil	2,658,033	

	<u>MIXED 4 CARBON</u>	
Goodrich-Gulf	2,604,675	

D/5720
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BFG10946

2165007

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C. Woods A. Cassity P.E.Sanderson
F. Carvell K. Hardesty J.S.Wolff
Location

Date October 2, 1967

From Bill Shannon

Subject Calvert City Shipments - September, 1967

<u>VCL</u>		<u>VCM</u>	
7 Niagara Falls	1,093,340	1 (80) Louisville	134,700
50 Henry	7,432,360	1 (80) Dewey & Almy	68,500
18 Louisville	2,792,870	1 (80) Rohm & Haas	67,700
53 Avon Lake	8,337,250	2 (80) Armour	134,900
9 Mexico	720,160	(50) Sample	8
Airco - Pipeline	5,970,002		
27 Stauffer	4,722,270		
5 Hooker	896,950		
14 Diamond Alkali	2,345,970		
6 Monsanto	960,540		
15 Union Carbide	2,138,100		
TOTAL	37,429,812		

HCL
Airco -0-

ETHYLENE
TOTAL -0-

PROPYLENE

10 Union Carbide-So.Charleston	1,296,900
30 Union Carbide-Institute	3,754,700
16 Union Carbide-No.Charleston	2,008,600
2 Union Carbide-Canada	83,600
11 Monsanto	1,353,600
TOTAL	8,497,400

EDC

Louisville	5,673,707
Olin Mathieson	98,800
Rohm & Haas	382,600
TOTAL	6,156,107

SPENT SULFURIC ACID
Pennsalt 391,160

SODIUM HYDROXIDE

Miscellaneous	20
Reilly Tar & Chemical	67,319
Valley Chemical & Solvents	113,592
P B & S Chemical	132,799
Celanese Coatings	135,725
Charles Pfizer	197,573
Commercial Solvents	207,259
Olin Mathieson	1,337,064
Kentucky Asphalt	1,388,770
Diamond Alkali	2,461,280
K.A.Steel	2,726,199
E.I.DuPont	2,918,047
FPG	4,186,422
TOTAL	15,878,072

GASOLINE
Mobil 2,732,922

HON
Hampshire Chemical -0-

MIXED & CARBON
Goodrich-Gulf 2,717,636

HYDRO-CARBONS
Miscellaneous 7

D/5710	193,051
D/5741 (Wet)	12,904
D/5742 (Wet)	75,625
D/5743	89,723

21165008

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C. Woods A. Cassity P.E.Sanderson
F. Carvell K. Hardesty J. S. Wolff
Location

Date September 1, 1967
From Bill Shannon

Subject Calvert City Shipments - August, 1967

<u>VCL</u> <table border="0"> <tr><td>9</td><td>Niagara Falls</td><td>1,378,100</td></tr> <tr><td>33</td><td>Henry</td><td>4,857,560</td></tr> <tr><td>15</td><td>Louisville</td><td>2,325,900</td></tr> <tr><td>57</td><td>Avon Lake</td><td>8,912,880</td></tr> <tr><td>17</td><td>Mexico</td><td>1,341,800</td></tr> <tr><td></td><td>Airco - Pipeline</td><td>5,604,612</td></tr> <tr><td>27</td><td>Stauffer</td><td>4,651,600</td></tr> <tr><td>5</td><td>Hooker</td><td>800,700</td></tr> <tr><td>11</td><td>Diamond Alkali</td><td>1,843,000</td></tr> <tr><td>8</td><td>Monsanto</td><td>1,202,600</td></tr> <tr><td>1</td><td>Pennsalt (dry)</td><td>79,000</td></tr> <tr><td>12</td><td>PPG - Dundee</td><td>2,132,600</td></tr> <tr><td>5</td><td>Union Carbide</td><td>841,700</td></tr> <tr><td></td><td>Miscellaneous</td><td></td></tr> <tr><td colspan="2">TOTAL</td><td>35,972,056</td></tr> </table> <u>HCL</u> <table border="0"> <tr><td>Airco</td><td>-0-</td></tr> </table> <u>ETHYLENE</u> <table border="0"> <tr><td>TOTAL</td><td>-0-</td></tr> </table> <u>PROPYLENE</u> <table border="0"> <tr><td>13</td><td>Union Carbide - Institute</td><td>1,623,900</td></tr> <tr><td>10</td><td>Union Carbide - Whiting</td><td>1,256,191</td></tr> <tr><td>10</td><td>Union Carbide - North Charleston</td><td>1,228,800</td></tr> <tr><td>3</td><td>Union Carbide - Canada</td><td>125,400</td></tr> <tr><td>*14</td><td>Monsanto</td><td>1,762,300</td></tr> <tr><td>3</td><td>Monsanto</td><td>377,720</td></tr> <tr><td></td><td>E. I. Dupont</td><td>3,276,000</td></tr> <tr><td colspan="2">TOTAL</td><td>9,650,311</td></tr> </table> <u>EDG</u> <table border="0"> <tr><td>Louisville</td><td>8,589,840</td></tr> <tr><td>Olin Mathieson</td><td>98,100</td></tr> <tr><td>Rohm & Haas</td><td>482,300</td></tr> <tr><td>Miscellaneous</td><td>8</td></tr> <tr><td colspan="2">TOTAL</td><td>9,170,248</td></tr> </table> <u>SPENT SULFURIC ACID</u> <table border="0"> <tr><td>Pennsalt</td><td>306,116</td></tr> </table>	9	Niagara Falls	1,378,100	33	Henry	4,857,560	15	Louisville	2,325,900	57	Avon Lake	8,912,880	17	Mexico	1,341,800		Airco - Pipeline	5,604,612	27	Stauffer	4,651,600	5	Hooker	800,700	11	Diamond Alkali	1,843,000	8	Monsanto	1,202,600	1	Pennsalt (dry)	79,000	12	PPG - Dundee	2,132,600	5	Union Carbide	841,700		Miscellaneous		TOTAL		35,972,056	Airco	-0-	TOTAL	-0-	13	Union Carbide - Institute	1,623,900	10	Union Carbide - Whiting	1,256,191	10	Union Carbide - North Charleston	1,228,800	3	Union Carbide - Canada	125,400	*14	Monsanto	1,762,300	3	Monsanto	377,720		E. I. Dupont	3,276,000	TOTAL		9,650,311	Louisville	8,589,840	Olin Mathieson	98,100	Rohm & Haas	482,300	Miscellaneous	8	TOTAL		9,170,248	Pennsalt	306,116	<u>VCM</u> <table border="0"> <tr><td>1 (80)</td><td>Akron</td><td>138,400</td></tr> <tr><td>1 (80)</td><td>Tennessee Eastman</td><td>135,100</td></tr> <tr><td>1 (80)</td><td>Rohm & Haas</td><td>67,400</td></tr> <tr><td>2 (80)</td><td>International Chemical</td><td>200,400</td></tr> <tr><td>1 (80)</td><td>Armour</td><td>67,700</td></tr> <tr><td colspan="2">TOTAL</td><td>609,000</td></tr> </table> <u>SODIUM HYDROXIDE</u> <table border="0"> <tr><td>**Henry</td><td>-63,896</td></tr> <tr><td>- PB&S Chemical</td><td>63,855</td></tr> <tr><td>Texaco</td><td>64,564</td></tr> <tr><td>Alpha Cellulose</td><td>67,258</td></tr> <tr><td>Wm. E. Philipps</td><td>67,515</td></tr> <tr><td>Charles Frizer</td><td>265,291</td></tr> <tr><td>Olin Mathieson</td><td>1,347,914</td></tr> <tr><td>Pioneer Chemical</td><td>1,383,089</td></tr> <tr><td>K. A. Steel</td><td>1,388,011</td></tr> <tr><td>E. I. Dupont</td><td>2,909,153</td></tr> <tr><td>PPG Industries</td><td>4,356,869</td></tr> <tr><td>Dow Chemical</td><td>10,775,977</td></tr> <tr><td colspan="2">TOTAL</td><td>22,625,600</td></tr> </table> <u>GASOLINE</u> <table border="0"> <tr><td>Mobil</td><td>2,772,866</td></tr> </table> <u>HCN</u> <table border="0"> <tr><td>Hampshire Chemical</td><td>-0-</td></tr> </table> <u>MIXED 4 CARBON</u> <table border="0"> <tr><td>Goodrich-Gulf</td><td>2,016,265</td></tr> </table> <u>HYDRO-CARBONS</u> <table border="0"> <tr><td>Miscellaneous</td><td>42</td></tr> </table>	1 (80)	Akron	138,400	1 (80)	Tennessee Eastman	135,100	1 (80)	Rohm & Haas	67,400	2 (80)	International Chemical	200,400	1 (80)	Armour	67,700	TOTAL		609,000	**Henry	-63,896	- PB&S Chemical	63,855	Texaco	64,564	Alpha Cellulose	67,258	Wm. E. Philipps	67,515	Charles Frizer	265,291	Olin Mathieson	1,347,914	Pioneer Chemical	1,383,089	K. A. Steel	1,388,011	E. I. Dupont	2,909,153	PPG Industries	4,356,869	Dow Chemical	10,775,977	TOTAL		22,625,600	Mobil	2,772,866	Hampshire Chemical	-0-	Goodrich-Gulf	2,016,265	Miscellaneous	42
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Alpha Cellulose	67,258																																																																																																																																											
Wm. E. Philipps	67,515																																																																																																																																											
Charles Frizer	265,291																																																																																																																																											
Olin Mathieson	1,347,914																																																																																																																																											
Pioneer Chemical	1,383,089																																																																																																																																											
K. A. Steel	1,388,011																																																																																																																																											
E. I. Dupont	2,909,153																																																																																																																																											
PPG Industries	4,356,869																																																																																																																																											
Dow Chemical	10,775,977																																																																																																																																											
TOTAL		22,625,600																																																																																																																																										
Mobil	2,772,866																																																																																																																																											
Hampshire Chemical	-0-																																																																																																																																											
Goodrich-Gulf	2,016,265																																																																																																																																											
Miscellaneous	42																																																																																																																																											

**Shipped in July - returned full
*Low purity

2165009

B.F.GOODRICH CHEMICAL COMPANY

Inter-Organization Correspondence

To C. Woods A. Cassity P.E.Sandersen
F. Carvell K. Hardesty
Location

Date June 1, 1967

From Bill Shannon

Subject

Calvert City Shipments - May, 1967

<u>VCL</u>		<u>VCN</u>	
4	Niagara Falls 584,900	2 (80)	Armour 136,800
59	Henry 8,792,700	1 (80)	Tennessee Eastman 135,800
0	Louisville -0-	8 (80)	Louisville 821,700
83	Aron Lake 12,710,000	1 (80)	Akron 139,700
16	Mexico 1,252,300	1 (80)	Dewey & Almy 67,700
	Airco - Pipeline 4,794,431	(40)	E.I. Dupont 26,950
25	Stauffer 3,839,500	(40)	Louisville 6,300
1	Pennsalt (Dry) 79,100	3 (80)	Dow Badische 406,700
8	Hooker 1,164,700	(50)	Miscellaneous 18
15	PPG (York) 2,643,450		
24	PPG (Dundee) 4,210,500		
5	Monsanto 741,000		
	Miscellaneous 12		
	<u>TOTAL 40,812,693</u>		<u>TOTAL 1,741,668</u>

HCL

Airco -0-

ETHYLENE

TOTAL -0-

PROPYLENE

E. I. Dupont 3,241,207

9 Union Carbide-Institute 1,138,300

20 Union Carbide-No.Charleston 2,549,000

TOTAL 6,928,507

EEC

Louisville 5,582,722

Olga Mathieson 99,600

TOTAL 5,682,322

SPENT SULFURIC ACID

SODIUM HYDROXIDE

Jefferson Chemical 65,399

Preston Chemical 61,422

Reilly Tar & Chemical 64,232

Alpha Cellulose 54,316

Commercial Solvents 101,126

Monsanto 129,713

Charles Pfizer 290,965

Pennsalt 1,208,901

PPG Industries 1,219,299

Kentucky Asphalt 1,365,252

K. A. Steel 1,383,811

E. I. Dupont 1,392,008

Diamond Alkali 2,453,047

Allied Chemical 3,769,230

Kaiser Aluminum 3,783,129

TOTAL 17,351,850

GASOLINE

Mobil 5,319,195

HCN

Hampshire Chemical -0-

FEB 2 1967 11:00

BFG10949

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