

1. Pump Mfg. & SN DUPONT ALPHA I 03360	44. Flow Rate Calculations $\frac{300 \text{ cc}}{.935 \text{ min}} = 320.85 = 320.9 \text{ cc/min}$ $\frac{300 \text{ cc}}{.940 \text{ min}} = 319.15$	
42. Voltage Checked? 01C ☒ Yes ☐ No	45. Flow Rate 320.9 cc/min	
43. Location/Vol & Az.	46. Method ☒ B-Bubble ☐ PR	47. Initials
WORKSTATION	48. Date/Time 9-16-86	

Post-Sampling Calibration Records

49. Location/T & Az.	50. Flow Rate Calculations $\frac{300 \text{ cc}}{.920 \text{ min}} = 326.09 = 326.1 \text{ cc/min}$ $\frac{300 \text{ cc}}{.925 \text{ min}} = 324.32 = 324.3 \text{ cc/min}$	
WORKSTATION	51. Flow Rate 326.1 cc/min	
52. Initials	53. Date/Time 9-17-86 12:00	

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results	80	81	82	Blank
60. Sample No. →	607	508	509	510
61. Substance	Results			
a. Vinyl Chloride	18 ppm	70 ppm	19 ppm	4.1 micrograms
b. Ethylene Oxide	4.1 ppm	4.1 ppm	4.1 ppm	4.1 micrograms
c.				
d.				

62. Interferences and IH Comments to Lab VINYL CHLORIDE: PEL 1.0 ppm Action level 0.5 ppm ETO: PEL 1.0 ppm Ceiling 5.0 ppm AL 0.5 ppm	63. Chain of Custody	64. Supporting Samples
65. Analyst's Comments	a. Seal's Intact	Y N
	b. Received in Lab	9/18/86 JS
	c. Received by Analyst	9/15/86 JS
	d. Analysis Complete	9/30/86 JS
	e. Calculation Checked	9/30/86 JS
	f. Supervisor OK	
a. Blanks: 1A & 1B		b. Bunks:
c. Other:		

66. Calculations and Find Notes. **CEILING VCL = 5.0 ppm** **NOTE: ETO IDENTIFIED BUT NO QUANTITY**

CEILING #80 = .18 ppm $Y = \frac{.18}{5.0} = 0.036$; $LCL = Y - .15 = 0.036 - .15 = -0.114$, $UCL = 0.036 + .15$

CEILING #81 = .70 ppm $Y = \frac{.70}{5.0} = 0.14$; $LCL = Y - .15 = -0.01$; $UCL = 0.14 + 0.15 = 0.29$

CEILING #82 = .19 ppm $Y = \frac{.19}{5.0} = 0.038$; $LCL = Y - .15 = 0.038 - .15 = -0.112$, $UCL = 0.038 + .15$

7-852-883

Date: 4-21-86 Reporting ID: 452110 Inspection Number: 14793806 (018-86) 879718

Disturbance Name: B.F. Goodrich

On Performing Sampling (Signature): _____ E. CSMD ID: H0037 7. Sampling Date: 9-16-86 8. Shipping Date: 9-17-86

Employee (Name, Address, Telephone Number): _____ 13. Exposure Information: 0/2 14. Number: 3 15. Duration: 3 months

Airway Samples 16. Frequency: 9 day/wk 24 hr/day

17. Weather Conditions: WIND N-W 18. Photo: Y

19. Title: _____ 20. Occupation Code: _____ 21. Pump Checks & Adjustments: CONTINUOUS

22. (Type and effectiveness): _____

Description, Operation, Work Location(s), Ventilation and Controls

04/80B - Southwest end of incinerator
1A/81D - Southwest side of NASH Storage Tanks downwind of (2go)
2A/82D North Chocking north of control room

Cont'd.

19. No. Dupont ALPHA 1 03360 Sampling Date: _____

Sample Type/Media	CHARCOAL	CHARCOAL	CHARCOAL	CHARCOAL	CHARCOAL	CHARCOAL
1/Tube No.	80A	80B	81A	81B	82A	82B
2/Tube Submission No.	80A	80B	81A	81B	82A	82B
3/On/Off	9:50p	9:50p	10:24p	10:24p	11:04p	11:04p
4/Time (minutes)	10:16p	10:16p	10:45p	10:45p	11:30p	11:30p
5/Rate /min ☒ cc/min	326.1	326.1	326.1	326.1	326.1	326.1
6/Time (minutes)	8.48	8.48	6.85	6.85	8.48	8.48
7/Sample Weight (mg)						

8/Summary

28. Substance Code	29. Acrid.	30. Smol. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
									No. Cit.	FTA	Over Exp.	Eng.	PPE	Temp.	Med.	Other
C2580	L	A	C	0.18	P	1.0		0.18								X
C2580	L	A	C	0.70	P	1.0		0.70								X
C2580	L	A	C	0.19	P	1.0		0.19								X
P1190	L	A	F													

38. (Enter Line Numbers for those agents contributing to additive effect.)

39. Number Lines (27) 4 40. Date Results Received From Laboratory: 9/27/86 Case File Page: 104 of 182

OSHA-915 (Rev. 1/84)

NGC 14599

Cell # 72 = 24 ppm $\gamma = \frac{24 \text{ ppm}}{5.0 \text{ ppm}} = 0.048$ LCL = 0.048 - 1.5 = -0.102, UCL = 0.048 + 1.5 = 0.192

Cell # 71 = 88 ppm $\gamma = \frac{88 \text{ ppm}}{5.0 \text{ ppm}} = 0.176$ LCL = 0.176 - 1.5 = -0.324, UCL = 0.176 + 1.5 = 0.676

Cell # 70 = 29 ppm $\gamma = \frac{29 \text{ ppm}}{5.0 \text{ ppm}} = 0.058$ LCL = 0.058 - 1.5 = -1.442, UCL = 0.058 + 1.5 = 0.558

Cell # 15 = 15 ppm $\gamma = \frac{15 \text{ ppm}}{5.0 \text{ ppm}} = 0.03$ LCL = 0.03 - 1.5 = -1.47, UCL = 0.03 + 1.5 = 0.53

18. Calculations and Find Notes

5. Analyst's Comments

APL 1 ppm
Action level 0.5 ppm
Cell # 1 ppm
Cell # 5.0 ppm

12. Interferences and in Comments to Lab

1. Seals intact	Y	N
2. Received in Lab	9/18/85	9/18/85
3. Received by Analyst	9/18/85	9/18/85
4. Analysis Complete	9/24/85	9/24/85
5. Calculation Checked	9/24/85	9/24/85
6. Supervisor OK		

1. Substance	2. Results	3. Net Sample Weight (mg)	4. Blank Adjustment	5. Weight Gained (mg)	6. Initial Weight (mg)	7. Final Weight (mg)	8. Filter No.
1. Ethylene Oxide	6.01 ppm						
2. Vinyl Chloride	2.9 ppm						
3. Ethylene Oxide	6.01 ppm						
4. Vinyl Chloride	2.9 ppm						
5. Ethylene Oxide	6.01 ppm						
6. Vinyl Chloride	2.9 ppm						
7. Ethylene Oxide	6.01 ppm						
8. Vinyl Chloride	2.9 ppm						

Sample Weight Calculations

51. Flow Rate	344.8 cc/min
52. Initials	9-17-85
53. Date/Time	12:52 P.

Post-Sampling Calibration Records

41. Pump Mfr. & SN	ALPHA 1 02636
42. Voltage Checked?	OK
43. Location & AL	LABORATORY
44. Flow Rate Calculations	300 cc = 340.91 = 340.9 cc/min
45. Flow Rate	340.9 cc/min
46. Method	Blank
47. Initials	9-16-85
48. Date/Time	2

7-(886-851)

879759

Date: 1. Reporting ID: 452110 2. Inspection Number: 14793806

Disponent Name: S.F. Goodrich

Person Performing Sampling (Signature):

1. OSHA ID: H0037

7. Sampling Date: 9-16-86

8. Shipping Date: 9-17-86

Employee (Name, Address, Telephone Number):

13. Exposure Information: 0/2

14. Duration: 3 months

Area Samples:

15. Frequency: 7 days/week 24 hrs/day

16. Weather Conditions: Wind N-NE

17. Photo: Y

Title:

11. Occupation Code:

(Type and effectiveness):

18. Pump Checks & Adjustments:

Description, Operation, Work Location(s), Ventilation and Controls:

04/70B Southwest end of incinerator
1A/71B Southwest side of North Storage Tanks - downwind of incinerator
12A/72B North Cracking - north of control room

Cont'd.

9. No. of Samples: 12 Sampling Data

Sample Type/Method	CHARCOAL	CHARCOAL	CHARCOAL	CHARCOAL	CHARCOAL	CHARCOAL
1/Tube No.	70A	70B	71A	71B	72A	72B
2/Tube Submission No.	70A	70B	71A	71B	72A	72B
3/On/Off	9:50 p	9:50 p	10:24 p	10:24 p	11:04 p	11:04 p
4/Time (minutes)	10:16 p	10:16 p	10:45 p	10:45 p	11:30 p	11:30 p
5/Rate (cc/min)	344.8	344.8	344.8	344.8	344.8	344.8
6/Volume (liters)	8.96	8.96	7.24	7.24	8.96	8.96
7/Sample Weight (mg)						

8. Summary:

28. Substance Code	29. Acrid.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
									No. Cit.	FTA	Over Exp.	Eng.	PPE	Trng.	Mod.	Other
C2580		A	C	.29	P	1.0		.29								K
C2580		A	C	.88	P	1.0		.88								X
C2580		A	C	.24	P	1.0		.24								X
P1190		A	F													

NGC 14601

Notes (Enter Line Numbers for those agents contributing to additive effect.):

19. Number Lines (27): 1

40. Date Results Received From Laboratory: 9/29/86

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41. Pump Mfg. & SN DUPONT 7282	44. Flow Rate Calculations $\frac{50 \text{ cc}}{1.0 \text{ min}} = 50 \text{ cc/min}$ $\frac{50 \text{ cc}}{1.0 \text{ min}} = 50 \text{ cc/min}$		
42. Voltage Checked? OK ☒ Yes ☐ No			
47. Location T & Air WORKSTATION			
45. Flow Rate 50 cc/min	46. Method ☒ Bubble ☐ PR	47. Units gm	48. Date/Time 9-9-86

Post-Sampling Calibration Records

49. Location T & Air WORKSTATION	50. Flow Rate Calculations 50.1 cc/min 50.0 cc/min	
51. Flow Rate 50.1 cc/min	52. Initials CS	53. Date/Time 9/17/86 1:3

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment	155	131	88	61	435
59. Net Sample Weight (mg)	50	51	52	53	

Laboratory Results	503	504	505	506	
Lab Sample No. →	503	504	505	506	
61. Substance	Results				
a. Urethane Chloride	2.68 ppm	2.44 ppm	2.14 ppm	2.39 ppm	
b. 5 Thylar Oxil.	2.1 ppm	2.1 ppm	2.29 ppm	2.49 ppm	
c.					
d.					

62. Interferences and IIT Comments to Lab Urethane Chloride PZC 1.0 ppm Actual level 0.5 ppm TO: 1.0 ppm PZC ceiling 5.0 ppm 0.5 ppm Action Level	63. Chain of Custody		64. Supporting Samples
	a. Seals Intact	Y N	a. Blanks: 1A + B
	b. Received in Lab	9/15/86	
	c. Received by Analyst	9/15/86	b. Blanks:
	d. Analysis Complete	9/30/86	
	e. Calculation Checked	9/30/86	c. Other:
65. Analyst's Comments	f. Supervisor Ok		

66. Calculations and Field Notes

VCL ACTUAL = $\frac{199.15}{435} = .457 = .46 \text{ ppm}$

VCL TWA = $\frac{199.15}{480} = 0.415 = 0.42 \text{ ppm}$; $Y = \frac{TWA}{PZC} = \frac{0.42}{1.0 \text{ ppm}} = .42$

LC = $Y - .15 = .42 - .15 = .27$; $UCL = Y + .15 = .42 + .15 = .57$

TO actual = $\frac{55.41}{435} = 0.127 = 0.13 \text{ ppm}$

ETO TWA = $\frac{55.41}{480} = 0.115 = 0.12 \text{ ppm}$; $Y = \frac{TWA}{PZC} = \frac{0.12}{1.0 \text{ ppm}} = 0.12$

LCL = $Y - .15 = 0.12 - 0.15 = -0.03$; $UCL = Y + .15 = 0.12 + .15 = 0.27$

NGC 14602

82-851-883
878991

Date: 1. Reporting ID: 452110 2. Inspection Number: 14793806 (018-86) 3. Sampling Number: 4

Assignment Name: B.F. GOODRICH

Performing Sampling (Signature):

E. CSHO ID: 440037

7. Sampling Date: 9-16-86

8. Shipping Date: 9-17-86

See (Name, Address, Telephone Number):

13. Exposure Information:

a. Number: 012

b. Duration: 3 months

c. Frequency: 1 day/wk

27 hrs/yr.

14. Weather Conditions: WIND N-NE

15. Photo: Y NO

Title:

Incinerator Operator

11. Occupation Code: 697

(Type and effectiveness):

SE used when outside & V.C. ACXAMS ON
see referenced respiratory program

16. Pump Checks & Adjustments:

CONTINUOUS

REDACTED

Description, Operation, Work Location(s), Ventilation and Controls

see MIRM sample results for 9-16-86
& computer printout for V.C. ACXAMS

Cont'd.

No. DUPONT 7282

Sampling Data

Tube No.	CHARCONC	CHARCONC	CHARCONC	CHARCONC				
1	50A	50B	51A	51B	52A	52B	53A	53B
2	50A	50B	51A	51B	52A	52B	53A	53B
On/Off	4:16p	4:16p	6:54p	6:54p	9:05p	9:05p	10:34p	10:34p
	6:51p	6:51p	9:05p	9:05p	10:33p	10:33p	11:35p	11:35p
Time (minutes)	155	155	131	131	88	88	61	61
Rate (min cc/min)	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
Flow (l/min)	7.77	7.77	6.56	6.56	4.41	4.41	3.06	3.06
Sample Weight (g)								

Summary

28. Substance Code	29. Posid.	30. Smol. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Ad.	36. Severity	37. Citation Information							
									Inc. Cl.	FTA	Over. Exc.	Eng.	PPE	Trng.	Med.	Other
2579	L	P	T	0.42	P	0.5		0.84								X
2580	L	P	T	0.42	P	1.0		0.42								X
21190	L	P	T	0.12	P	1.0		0.12								X
										NGC 14603						

(Enter Line Numbers for those agents contributing to additive effect.)

3. Number Lines (27): 3

40. Date Results Received From Laboratory: 9/29/86

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SKC 07-1155

42. Voltage Checked? ☒ OK ☐ No

43. Location/T & Alt. Workstation

44. Flow Rate Calculations
 E 234862 54.0 cc
 S 234753 109 STROKE
 $K = \frac{54.0}{109} = .495 = .50$

45. Flow Rate (K) 0.50

46. Method ☒ Bubble ☐ PR

47. Initials gml

48. Date/Time 9-9-86

Post-Sampling Calibration Records

49. Location/T & Alt. Workstation

50. Flow Rate Calculations
 284139 K 54.2/109 = .50
 284030 109 ST
 284298 K 54.1/10
 284189 109 ST

51. Flow Rate K = 50

52. Initials CS

53. Date/Time 9/17/86 2:15

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)	154	134	96	46	420 min
Laboratory Results	40	41	42	43	
60. Lab Sample No. →	479 4, B	500 A, B	501 A, B	502 A, B	
61. Substance	Results				
a. Vinyl Chloride	4.1 ppm	4.1 ppm	4.1 ppm	4.1 ppm	
b. Ethylene Oxide	4.1 ppm	4.1 ppm	4.1 ppm	4.1 ppm	
c.					

62. Interferences and iH Comments to Lab
 PEL 1 ppm ETO PEL 1 ppm
 Action level 0.5 ppm Action level 0.5 ppm
 Ceiling 5 ppm

63. Chain of Custody

a. Seals Intact	Y	N
b. Received in Lab	9/18/86 JS	
c. Received by Analyst	9/15 JS	
d. Analysis Complete	9/30/86 JS	
e. Calculation Checked	9/30/86 JS	
f. Supervisor Ok.		

64. Supporting Samples

a. Blanks: 1A + B

Bulks: _____

c. Other: _____

65. Calculations and Field Notes

VINYL CHLORIDE ACTUAL AVERAGE = $\frac{(0.41 \times 154) + 0 + 0}{420} = \frac{63.14}{420} = 0.15 \text{ ppm}$

ETO TWA = $\frac{(0.41 \times 154) + 0 + 0}{420} = \frac{63.14}{420} = 0.152 = 0.13 \text{ ppm}$

$Y = \frac{0.13 \text{ ppm}}{1.15 \text{ ppm}} = 0.13$; $WL = Y - .15 = 0.13 - 0.15 = -0.02$; $UCL = Y + .15 = 0.13 + 0.15 = 0.28$

Cont'd.

[illegible]

Survives (Enter the Numbers for those agents contributing to additive effect.)

31. Number Lines (27)	3	40. Date Results Received From Laboratory	9/27/86	Case File Page	101 / 182
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VIN 21085

42. Voltage Checked? ☒ Yes ☐ No

43. Location/T & Alt.
WORKSTATION

45. Flow Rate (K) 0.43

46. Method ☒ Bubble ☐ PR

47. Initials Jm

48. Date/Time 9-9-86

5. 399260 50.0cc
399142
118 STROKES

6. 399555
399436
119 STROKES

$K = \frac{50.8}{118} = 0.431 = 0.43$

$K = \frac{51.0}{119} = 0.429 = 0.4$

Post-Sampling Calibration Records

49. Location/T & Alt.
WorkStation

50. Flow Rate Calculations

$\frac{454182}{118 \text{ St}} = 50.4/118 = .43$

$\frac{454327}{119 \text{ St}} = 50.5/119 = .43$

51. Flow Rate $K = .43$

52. Initials CS

53. Date/Time 9/12/86 2:03

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Sample Weight (mg)	146	128	114	49	

Laboratory Results	30	31	32	33	
60. Lab Sample No.	511	512	513	514	
61. Substance	Results	no ETO Found at this level	4.5 ppm ETO	1.8 ppm	
a. ETHYLENE OXIDE	*				
a. Vinyl chloride		0.3 ppm	0.78 ppm	0.52 ppm	
c.					
d.					

62. Interferences and IH Comments to Lab

ETHYLENE OXIDE DEC 1.0 ppm
Action level 0.5 ppm

Vinyl chloride DEC 1.0 ppm
Action level 0.5 ppm

63. Chain of Custody

a. Seals Intact Y N

b. Received in Lab 9/16/86 JS

c. Received by Analyst

d. Analysis Complete 9/24/86 JS

e. Calculation Checked 9/24/86 JS

f. Supervisor Ok

64. Supporting Samples

a. Blanks: 2A & 2B

b. Bunks:

c. Other:

65. Analyst's Comments

* Sample is ~0.2 ppm of Ethyl vinyl chloride or ETO I could not tell which

66. Calculations and Field Notes

Actual Average VCL = $\frac{152.8}{291 \text{ min}} = 0.53 \text{ ppm}$

TWA = $\frac{152.8}{440} = 0.32 \text{ ppm}$ VCL Y = $\frac{0.32 \text{ ppm}}{1.0 \text{ ppm}} = 0.32$; LCL = $0.32 - .152 = 0.17$; UCL = $0.32 + .152 = 0.47$

Actual Average ETO = $\frac{88.2}{291} = 0.30 \text{ ppm ETO}$

TWA = $\frac{88.2}{440} = 0.18 \text{ ppm ETO}$ Y = $\frac{0.18 \text{ ppm}}{1.0 \text{ ppm}} = 0.18$; LCL = $0.18 - .152 = 0.03$; UCL = $0.18 + .152 = 0.33$

86-836-851

1. Reporting ID 452110		2. Inspection Number 14793806 (018-06)		3. Sampling Number 878918	
4. Signment Name F. GOODRICH					
5. Performing Sampling (Signature)		6. CSMO ID H0037		7. Sampling Date 9-16-86	
				8. Shipping Date 9-17-86	
9. Employee (Name, Address, Telephone Number)				13. Exposure Information	
REDACTED				a. Number 6	
				c. Duration 6mo.	
				d. Frequency 5days/week 8hr/d	
				14. Weather Conditions	
				15. Photo Y NO	
10. Title INCUBATOR OPERATION		11. Occupation Code 699		16. Pump Checks & Adjustments CONTINUOUS	
12. (Type and effectiveness) PPE USED: WATER WIPER @ U.C. AERIALS ON K see referenced respiratory program					
Description, Operation, Work Location(s), Ventilation and Controls					

Con't

[illegible][illegible]

atives (Enter Line Numbers for those agents contributing to additive effect.)

43. Number (27) 3	44. Date Results Received From Laboratory 2/29/56	Case File Page 100 / 182
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42. VOLTAGE CORRECTION YES ☒ NO ☐		43. LOCATION & ALT. WORKSTATION	
41. FLOW RATE (K) 0.39		40. METHOD ☒ BUCC ☐ 24	
48. DATE/TIME 7-16-86		47. INITIALS CS	

$K = \frac{50.9}{132} = 0.385 = 0.39$
 $K = \frac{51.5}{132} = 0.387 = 0.39$

51. 02374
 50.9cc
 52. 023801
 51.1cc
 53. 023939
 51.0cc
 54. 025801
 51.1cc

87-852-883

DATE 1. Reporting ID 452110 2. Inspection Number 14793806 (018-86) 3. Sampling Number 878876

Isolated Name
T. GOODRICH

Performing Sampling (Signature)
Charles J. Spaw

6. OSHA ID
H0037

7. Sampling Date
9-16-86

8. Shipping Date
9-17-86

9. Addressee (Name, Address, Telephone Number)

13. Exposure Information

14. Number

15. Duration
006 4 months

REDACTED

16. Frequency

Wind out of North

17. Weather Conditions

WIND N-NE

NO

Title

INCUBATOR OPERATOR

11. Occupation Code

699

(Type and effectiveness)

BE USED WHEN OUTSIDE AND V.C. MEASUREMENTS ON.

16. Pump Checks & Adjustments

CONTINUOUS

e referenced respiratory PROBLEM

Description, Operation, Work Location(s), Ventilation and Controls

BE MIRAW SAMPLES RESULTS FOR 9-16-86

computer printout for V.C. MEASUREMENTS

Cont'd.

NO. SIPIN 21088

Sampling Data

Sample Type/Media	CHARCOAL							
/Tube No.	20A	20B	21A	21B	22A	22B	23A	23B
Submission No.	20A	20B	21A	21B	22A	22B	23A	23B
On/Off	4:14 P 023939 6:42 P 043660	4:14 P 023939 6:42 P 043660	6:42 P 043660 8:42 P 057800	6:42 P 043660 8:42 P 057800	8:42 P 057800 10:27 P 073180	8:42 P 057800 10:27 P 073180	10:27 P 073180 11:20 P 080629	10:27 P 073180 11:20 P 080629
Time (minutes)	14721 148	14721 148	16000 122	16000 122	13380 102	13380 102	7249 51	7249 51
Rate (min) ☒ cc/min	K=0.39	K=0.39	K=0.39	K=0.39	K=0.39	K=0.39	K=0.39	K=0.39
Flow (liters)	7.69	7.69	6.24	6.24	5.22	5.22	2.83	2.83
Sample Weight (mg)								

Summary

28. Substance Code	29. Resid.	30. Smp. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. A.O.	36. Severity	37. Citation Information							
									AC	FTA	Env. Exc.	Eng.	PPE	Trng.	Mod.	Other
C2579	L	P	T	0.51	P	0.5		1.02								X
C2580	L	P	T	0.51	P	1.0		0.51								X
P1190	L	P	T	0.22	P	1.0		0.32								X

NGC 14609

31. Line Numbers for those agents contributing to additive effect.

32. Number Lines (27)

3

40. Date Results Received From Laboratory

9/29/86

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DUPONT 7208 42. Voltage Checked? ☒ Yes ☐ No		44. Flow Rate Calculations $\frac{100 \text{ cc}}{.490 \text{ min}} = 204.08 = 204.1 \text{ cc/min}$	
43. Location/T & Air WORKSTATION		$\frac{100 \text{ cc}}{.490} = 204.08 = 204.1 \text{ cc/min}$	
45. Flow Rate 204.1 cc/min		46. Method ☒ Bubble ☐ PR	47. Initials CS
		48. Date/Time 9-16-86	

Post-Sampling Calibration Records

49. Location/T & Air WORKSTATION		50. Flow Rate Calculations $\frac{100 \text{ cc}}{.470 \text{ min}} = 212.76 = 212.8 \text{ cc/min}$	
$\frac{100 \text{ cc}}{.470 \text{ min}} = 212.76 = 212.8 \text{ cc/min}$			
51. Flow Rate 212.8 cc/min		52. Initials CS	53. Date/Time 9-17-86

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No.	10A	11A	12A		
	488	489	490		
61. Substance	Results				
a. Acrylonitrile					
b. ALLYL CHLORIDE					
c. ALLYL ALCOHOL					
d. BIS CHLOROMETHYL ETHER					

62. Interferences and IH Comments to Lab

ACRYLONITRILE 2.0 ppm Action level 1.0 ppm
 ALLYL CHLORIDE 1.0 ppm (PEL)
 ALLYL ALCOHOL 2.0 ppm (PEL)
 BIS CHLOROMETHYL ETHER - NO EXPOSURE ALLOWED

63. Analyst's Comments

Unable to Analyze
 at this time
 11/10/86 JS

63. Chain of Custody

a. Seals Intact	Y	N
b. Received in Lab	9/18/86 JS	
c. Received by Analyst		
d. Analysis Complete		
e. Calculation Checked		
f. Supervisor		

64. Supporting Samples

a. Blanks:	3A
b. Bunks:	
c. Other:	

65. Calculations and Field Notes

OK

NGC 14610

DATE _____ 1. Reporting ID 452110 2. Inspection Number 14793806 (018)86 Sampling Number 978A35

Assignment Name S.F. GOODRICH

Performing Sampling (Signature) *[Signature]* E. CSRD ID H0037 7. Sampling Date 9-16-86 8. Shipping Date 9/17/86

Employee (Name, Address, Telephone Number) AREA SAMPLOS 13. Exposure Information 14. Frequency 8h/shift 3 shifts/day 7 days/wk 15. Duration 3 months 16. Weather Conditions WIND N-NE 17. Photo Y NO

Title _____ 11. Occupation Code _____ 16. Pump Checks & Adjustments _____

(Type and effectiveness) _____

Description, Operation, Work Location(s), Ventilation and Controls

A southwest end of incinerator
 A southwest side of MOH Storage tanks downwind of legon
 A NORTH CRACKING NORTH OF CONTROL ROOM

Cont'd.

No. DUPONT 728E		Sampling Data			
Tube Type/Media	CHARCOAL	CHARCOAL	CHARCOAL		
Tube No.	10A	11A	12A		
Submission No.	10A	11A	12A		
On/Off	9:50 P	10:24 P	11:04 P		
	10:16 P	10:45 P	11:30 P		
Time (minutes)	26 min	21 min	26 min		
Rate min ☒ cc/min	212.8	212.8	212.8		
Flow (l/min)	5.53	4.47	5.53		
Sample Weight (g)					

Summary												37. Citation Information							
28. Substance Code	29. Acrid.	30. Smol. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	No. Cn	FTA	Over Exp.	Eng.	PPE	Temp.	Med.	Other			
20121	L	A	A																
0140	L	A	A																
0130	L	A	A																
22630	L	A	A																

Notes (Enter Line Numbers for those agents contributing to additive effect.)

38. Number Lines (27) 4 40. Date Results Received From Laboratory 11/12/86 Case File Page 98 of 182

41. Pump Mfg. & SN DUPONT 7287	44. Flow Rate Calculations $\frac{52 \text{ cc}}{1.0 \text{ min}} = 52 \text{ cc/min}$ $\frac{52.1 \text{ cc}}{1.0 \text{ min}} = 52.1 \text{ cc/min}$		47. Initials JS	48. Date/Time 9-9-85
42. Voltage Checked? ☒ Yes ☐ No 5.8 Volts	45. Flow Rate 52.1 cc/min		46. Method ☒ Bucole ☐ PP	
43. Location/Vol & AIL WORKSTATION				

Post-Sampling Calibration Records

49. Location/Vol & AIL Work Station	50. Flow Rate Calculations $\frac{58.2 \text{ cc}}{1.0 \text{ min}} = 58.2 \text{ cc/min}$ $\frac{58.2}{1.0 \text{ min}} = 58.2 \text{ cc/min}$		53. Date/Time 9/17/86
51. Flow Rate 58.2 cc/min	52. Initials CS		

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

Lab Sample No. →	604	614	624	3A
61. Substance	491	492	493	494
a. ACRYLONITRILE				
b. ALLYL CHLORIDE				
c. ALLYL ALCOHOL				
d. BIS CHLOROMETHYL ETHER				

62. Interferences and IH Comments to Lab

ACRYLONITRILE PEL 2.0 PPM, actual level 1.0 ppm
ALLYL CHLORIDE 1.0 PPM (PEL)
ALLYL ALCOHOL 2.0 PPM (PEL)
BIS CHLOROMETHYL ETHER - NO EXPOSURE ALLOWED

63. Analyst's Comments

unable to Analyze
at this time
11/10/86 JS JS

63. Chain of Custody

a. Seals Intact	Y	N
b. Received in Lab	9/18/86 JS	
c. Received by Analyst		
d. Analysis Complete		
e. Calculation Checked		
f. Supervisor Ok		

64. Supporting Samples

a. Blanks: 3A
b. Bulks:
c. Other:

65. Calculations and Field Notes

NGC 14612

Date	1. Reporting ID 452110	2. Inspection Number 14793806	3. Sampling Number (018-86)	4. Sampling Date 879197
5. Establishment Name B. F. Goodrich				
6. Sampling Location (Signature) <i>[Signature]</i>		7. OSHA ID 44037	8. Sampling Date 9/16	9. Shipping Date 9/17
10. Employee (Name, Address, Telephone Number)		11. Exposure Information 012	12. Number 3 Months	13. Duration
14. AREA SAMPLES		15. Frequency 8h/day 3 shifts / 16h 7 days/week		
16. Weather Conditions WIND N-NE		17. Photo Y NO		
18. Title		19. Occupation Code		
20. (Type and effectiveness)		21. Pump Checks & Adjustments		

Description, Operation, Work Location(s), Ventilation and Controls

0A, 61A, 62A - ON DESK OF INCINERATOR
control Room

Cont'd.

No.	Sampling Data						
1. Type/Media	CHARCOAL	CHARCOAL	CHARCOAL				
2. Tube No.	60 A	61 A	62 A				
3. Submission No.	60 A	61 A	62 A				
4. On/Off	6:46 P	8:50 P	10:36 P				
	8:50 P	10:36 P	11:36 P				
5. Time (minutes)	114	106	60				
6. Rate /min ☒ cc/min	58.2	58.2	58.2				
7. Time (minutes)	6.63	6.17	3.49				
8. Sample Weight (mg)							

9. Summary

28. Substance Code	29. Resid.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
C0121	L	A	A													
0140	L	A	A													
0130	L	A	A													
2630	L	A	A													

NGC 14613

10. Additives (Enter Line Numbers for those agents contributing to additive effect.)

38. Number Lines (27)	39. Date Results Received From Laboratory	40. Case File Page
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Pre-Sampling Calibration Records

41. Pump Mfg. & SN SKC 07 1155	44. Flow Rate Calculations END 234 862 START 234 753 <u>109</u> $K = \frac{54.0}{109} = .495 = .50$		END 235 024 START 234 915 <u>109</u> $K = \frac{54.1}{109} = .496 = .50$	
42. Voltage Checked? ☒ Yes ☐ No 1.2 V	45. Flow Rate .50		46. Method ☒ Bubble ☐ PR	47. Initials JMW
43. Location/T & Alt. WORKSTATION			48. Date/Time 9-9-86	

Post-Sampling Calibration Records

49. Location/T & Alt. WORKSTATION	50. Flow Rate Calculations END 237 048 START 236 939 <u>109</u> $K = \frac{53.8}{109} = .494 = .49$		END 237 181 START 237 073 <u>108</u> $K = \frac{53.6}{108} = .496 = .50$	
51. Flow Rate .50	52. Initials JMW	53. Date/Time 9-10-86 12:21 P		

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No. →	20B 20A			
61. Substance	459B 453A			
a. VINYL CHLORIDE	Results Line the 0.2 mg/m³ 3VC			
b.				
c.				
d.				

62. Interferences and IH Comments to Lab

Vinyl Chloride PEL 1.0 ppm
or 2.556 mg/m³
Action level 0.5 ppm

65. Analyst's Comments

63. Chain of Custody

a. Seals Intact	Y N
b. Received in Lab	9/11/86 P
c. Received by Analyst	9/12 JS
d. Analysis Complete	9/18 JS
e. Calculation Checked	9/18/86 P
f. Supervisor Ok.	

64. Supporting Samples

a. Blanks: #1 45
b. Bulks: Line the 0.2 m. Cro gran
c. Other: ---

66. Calculations and Field Notes

NGC 14614

Air Sampling Report

U.S. Department of Labor
Occupational Safety and Health Administration

87-294576

1. Reporting ID 452110	2. Inspection Number 14793806	3. Sampling Number 0584813
Establishment Name B.F. GOODRICH CORP.		
Person Performing Sampling (Signature) <i>Paul Spanner</i>	6. CSHO ID H0037	7. Sampling Date 9/9/86
Employee (Name, Address, Telephone Number) AREA SAMPLES LOCATED ON HWY 1525 NEXT TO THE MAIN ENTRANCE	13. Exposure Information a. Number b. Duration	8. Shipping Date 9/10/86
Job Title	11. Occupation Code	14. Weather Conditions SEE ATTACHED SHEET
PPE (Type and effectiveness)	15. Photo Y	
16. Pump Checks & Adjustments		

Job Description, Operation, Work Location(s), Ventilation and Controls

TAKEN ON SIDE of Public Roadway

→ 20B 20A = Pump

Cont'd.

Pump No.	SKC 07 USS		Sampling Data	
Sample Type/Media	CHARCOAL	CHARCOAL		
Filter/Tube No.	20 B	20 A		
Sample Submission No.				
Time On/Off	5:00 P 235024 5:16 P 236771	5:00 P 235024 5:16 P 236771		
Total Time (in minutes)	16 min 1747	16 min 1747		
Flow Rate ☐ l/min ☐ cc/min K	K = .50	K = .50		
Volume (in liters)	.874 L	.874 L		
Net Sample Weight (in mg)				

Exposure Summary

28. Substance Code	29. Reqstd.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
									No. Cit.	FTA	Over Exp.	Eng.	PPE	Trng.	Med.	Other
C2579	L	A	F													
C2580	L	A	F													

NGC 14615

Additives (Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines (27) 2	40. Date Results Received From Laboratory 9/22/86	Case File Page 96 of 182
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OSHA-91(S) (Rev. 1/84)

Pre-Sampling Calibration Records

41. Pump Mfg. & SN SIPID 21085	44. Flow Rate Calculations END 399260 START 399142 118 $K = \frac{50.8}{118} = 0.4305 = 0.43$	END 399565 START 399436 119 $K = \frac{51.0}{119} = 0.42857 = 0.43$
42. Voltage Checked? OK 2.5 V ☒ Yes ☐ No	45. Flow Rate 0.43 (K)	46. Method ☒ Bubble ☐ PR
43. Location/T & Alt. WORKSTATION	47. Initials JML	48. Date/Time 9-9-86 10

Post-Sampling Calibration Records

49. Location/T & Alt. WORKSTATION	50. Flow Rate Calculations END 402694 START 402576 118 $K = \frac{51.0}{118} = 0.4322 = 0.43$	END 402842 START 402723 119 $K = \frac{50.8}{119} = 0.4269 = 0.43$
51. Flow Rate 0.43 (K)	52. Initials JML	53. Date/Time 9-16-86 1:43 pm

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No. →	10A 462 B 452 452 A			
61. Substance a. VINYL CHLORIDE	Results Less the 0.2 mg/m ³ VC			
b.				
c.				
d.				

62. Interferences and IH Comments to Lab

Vinyl chloride PEL 1.0 ppm
or 2.556 mg/m³
Action Level 0.5 ppm.

65. Analyst's Comments

63. Chain of Custody

a. Seals Intact	Y	N
b. Received in Lab	9/16/86	P
c. Received by Analyst	9/17/86	OS
d. Analysis Complete	9/18/86	
e. Calculation Checked	9/18/86	P
f. Supervisor Ok.		

64. Supporting Samples

a. Blanks: # /
b. Bunks:
c. Other:

66. Calculations and Field Notes

Air Sampling Report

U.S. Department of Labor
Occupational Safety and Health Administration

87 694-742

1. Reporting ID 752110	2. Inspection Number 14793806	3. Sampling Number 0584805
Establishment Name B.F. Goodrich Corp		
Person Performing Sampling (Signature) Charles S. Spanow	4. CSHO ID 170037	7. Sampling Date 9/9/86
Employee (Name, Address, Telephone Number) Areas Samples Located on Hwy 1523 Next to the Main entrance	13. Exposure Information a. Number c. Frequency	8. Shipping Date 9/10/86
Job Title	11. Occupation Code	14. Weather Conditions SEE ATTACHED SCHEM
PPE (Type and effectiveness)	15. Photo Y	
16. Pump Checks & Adjustments		

Job Description, Operation, Work Location(s), Ventilation and Controls

Taken on side of public Roadway.

→ 10B 10A = Pump

Cont'd.

Pump No.	Siprin	21085	Sampling Data
Sample Type/Media	Charcoal	Charcoal	
Filter/Tube No.	10B	10A	
Sample Submission No.			
Time On/Off	4:56 PM 399555 5:16 PM 401859	4:56 PM 399555 5:16 PM 401859	
Total Time (in minutes)	20 min 2304 sec	20 min 2304 sec	
Flow Rate ☐ l/min ☐ cc/min	K	K	
Volume (in liters)	.991 L	.991 L	
Net Sample Weight (in mg)			

Exposure Summary

22. Substance Code	29. Rqstd.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
No. Cl.	FTA	Over Exp.	Eng.	PPE	Trng.	Med.	Other									
C2579	L	A	F													
C2580	L	A	F													

NGC 14617

Additives (Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines (27)	2	40. Date Results Received From Laboratory	9/22/86	Case File Page	95 of 182
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Pre-Sampling Calibration Records

41. Pump Mfg. & SN	44. Flow Rate Calculations			
42. Voltage Checked? ☐ Yes ☐ No				
43. Location/T & Alt.				
	45. Flow Rate	46. Method ☐ Bubble ☐ PR	47. Initials	48. Date/Time

Post-Sampling Calibration Records

49. Location/T & Alt.	50. Flow Rate Calculations		
51. Flow Rate	52. Initials	53. Date/Time	

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No. →	24 AtB				
61. Substance	Results	22 AtB			
a. Vinylchloride	2mg	Th	1	mg	1.3
b. Benzene	"	"	12	"	"
c. Ethylene Dichloride	"	"	59	"	"
d.					

62. Interferences and IH Comments to Lab

Please Report any other Chemicals Found.

65. Analyst's Comments

63. Chain of Custody

a. Seals Intact	✓	N
b. Received in Lab	8/13/86 CAH	
c. Received by Analyst	95	JS
d. Analysis Complete	98	JS
e. Calculation Checked	9/8/86 JD	
f. Supervisor Ok.		

64. Supporting Samples

a. Blanks: # 1
b. Bunks:
c. Other:

66. Calculations and Field Notes

Sampling Report

U.S. Department of Labor
Occupational Safety and Health Administration

85-705-725



1. Reporting ID 452110	2. Inspection Number 14793806	3. Sampling Number 0584615
4. Establishment Name B.F. Goodrich		
5. Person Performing Sampling (Signature) Charles Spencer	6. CSHO ID H0037	7. Sampling Date 8/11/86
8. Shipping Date 8/12/86		9. Exposure Information a. Number 3 samples
10. Employee (Name, Address, Telephone Number) Area Sample Northwest Side of Incinerator between incinerator and waste lagoon		11. Photo Y
12. Job Title		13. Frequency 2 days per week
14. Occupation Code		15. Pump Checks & Adjustments
16. PPE (Type and effectiveness)		

Job Description, Operation, Work Location(s), Ventilation and Controls

→ Tube A Tube B pump.

Cont'd.

Pump No.	7282	Sampling Data					
Sample Type/Media	Charcoal Charcoal						
Filter/Tube No.	#21A #24B						
Sample Submission No.	#24A #24B						
Time On/Off	2:49 2:49						
	3:06 3:06						
Exposure Time (in minutes)	17min 17min						
Flow Rate l/min ☐ cc/min	51.5 51.5						
Volume (in liters)	.88L .88L						
Net Sample Weight (in mg)							

Exposure Summary

28. Substance Code	29. Rqstd.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
									No. Cit.	FTA	Over Exp.	Eng.	PPE	Trng.	Med.	Other
C2579	C	A	F													
C2580	C	A	F													
C0320	C	A	F													
870	L	A	F													

NGC 14619

Additives (Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines (27) 4	40. Date Results Received From Laboratory 9/12/86	Case File Page 94 of 182
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Pre-Sampling Calibration Records

41. Pump Mfg. & SN	44. Flow Rate Calculations			
42. Voltage Checked? ☐ Yes ☐ No				
43. Location/T & Alt.				
	45. Flow Rate	46. Method ☐ Bubble ☐ PR	47. Initials	48. Date/Time

Post-Sampling Calibration Records

49. Location/T & Alt.	50. Flow Rate Calculations			
51. Flow Rate	52. Initials	53. Date/Time		

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No. →	23 AB				
61. Substance	220 AB				
a. Vinyl Chloride	Results				
b. Ethylene Dichloride	Just the 1 mg / 100				
c. Benzene	" " 65				
d. Benzene	" " 12				

62. Interferences and IH Comments to Lab

Please Report any other Chemicals Found.

65. Analyst's Comments

63. Chain of Custody

a. Seals Intact	N
b. Received in Lab	8/13/80 CQH
c. Received by Analyst	95 JS
d. Analysis Complete	98 JS
e. Calculation Checked	9/8/80 P
f. Supervisor Ok.	

64. Supporting Samples

a. Blanks: #1
b. Bulks:
c. Other:

66. Calculations and Field Notes

NGC 14620

ir Sampling Report

U.S. Department of Labor
Occupational Safety and Health Administration

87-705-725
0584607

OD Date	1. Reporting ID 452110	2. Inspection Number 14793806	3. Sampling Number 0584607
Establishment Name B. F. Goodrich			
Person Performing Sampling (Signature) Charles Barrow		6. CSHO ID H0037	7. Sampling Date 8/11/86
Employee (Name, Address, Telephone Number) Area Sample Southeast Side of Incinerator Stack		13. Exposure Information a. Number b. Duration 3 months	8. Shipping Date 8/12/86
Job Title	11. Occupation Code	14. Weather Conditions NE wind.	15. Photo Y
PPE (Type and effectiveness)		16. Pump Checks & Adjustments	

Job Description, Operation, Work Location(s), Ventilation and Controls

⇒ Tube A Tube B Pump

Cont'd.

Pump No.	Sampling Data					
	Sample Type/Media					
	Filter/Tube No.					
	Sample Submission No.					
	Time On/Off					
	Total Time (in minutes)					
	Flow Rate ☐ l/min ☐ cc/min					
	Volume (in liters)					
	Net Sample Weight (in mg)					

Measure Summary

28. Substance Code	29. Rqstd.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
C2579	L	A	F						No Cit.	FTA	Over Exp.	Eng.	PPE	Trng.	Med.	Other
C2580	L	A	F													
874	L	A	F													
C0320	L	A	F													

NGC 14621

Additives (Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines (27)	40. Date Results Received From Laboratory	Case File Page
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Pre-Sampling Calibration Records

41. Pump Mfg. & SN	44. Flow Rate Calculations			
42. Voltage Checked? ☐ Yes ☐ No				
43. Location/T & Alt.				
	45. Flow Rate	46. Method ☐ Bubble ☐ PR	47. Initials	48. Date/Time

Post-Sampling Calibration Records

49. Location/T & Alt.	50. Flow Rate Calculations			
51. Flow Rate	52. Initials	53. Date/Time		

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

22 A+B

60. Lab Sample No. →	219 AB				
61. Substance	Results				
a. Vinyl Chloride	Just the 1 mg/m ³				
b. Benzene	" " 10 " "				
c. Ethylene Dichloride	" " 47 " "				
d.					

62. Interferences and IH Comments to Lab

Please Report any other chemicals found.

63. Chain of Custody

a. Seals Intact	2 N
b. Received in Lab	8/13/86 CAN
c. Received by Analyst	95 JS
d. Analysis Complete	98 JS
e. Calculation Checked	9/8/86 P
f. Supervisor Ok.	

64. Supporting Samples

a. Blanks: #1
b. Bulks:
c. Other:

65. Calculations and Field Notes

NGC 14622

Air Sampling Report

U.S. Department of Labor
Occupational Safety and Health Administration

87-705-720

4. O.D. Date	1. Reporting ID 452710	2. Inspection Number 14793806	3. Sampling Number 0584599
Establishment Name B. F. Goodrich			
Person Performing Sampling (Signature) Charles Panow		6. CSHO ID 140037	7. Sampling Date 8/11/86
Employee (Name, Address, Telephone Number) Area Sample North of Carbapol		8. Shipping Date 8/12/86	13. Exposure Information a. Number b. Duration 3 months
		c. Frequency 1 day per 24 hrs	14. Weather Conditions
Job Title		11. Occupation Code	15. Photo Y
PPE (Type and effectiveness)		16. Pump Checks & Adjustments	

Job Description, Operation, Work Location(s), Ventilation and Controls

→ Tube A → Tube B → Pump

Cont'd.

Pump No.	Sampling Data					
7282	Sample Type/Media	Charcoal	Charcoal			
	Filter/Tube No.	#22A	#22B			
	Sample Submission No.	#22A	#22B			
	Time On/Off	1:45	1:45			
		2:05	2:05			
	Total Time (in minutes)	20 min	20 min			
	Flow Rate					
	☐ l/min ☐ cc/min	31.5	31.5			
	Volume (in liters)	1.03L	1.03L			
	Net Sample Weight (in mg)					

Exposure Summary

7. Line	28. Substance Code	29. Rqstd.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
	C2579	L	A	F						No Cit.	FTA	Over Exp.	Eng.	PPE	Trng.	Med.	Other
	C2580	L	A	F													
	C0320	L	A	F													
	874	L	A	F													

NGC 14623

1. Additives (Enter Line Numbers for those agents contributing to additive effect.)

12. Total Number of Lines (27)	4	40. Date Results Received From Laboratory	9/12/86	Case File Page	92 of 182
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OSHA-91(S) (Rev. 1/84)

Pre-Sampling Calibration Records

41. Pump Mfg. & SN <i>Dupont 7282</i>	44. Flow Rate Calculations <i>50.0 cc/min</i> <i>49.9 cc/min</i>			
42. Voltage Checked? ☒ Yes ☐ No				
43. Location/T & Alt. <i>Workstation</i>	45. Flow Rate <i>50.0 cc/min</i>	46. Method ☒ Bubble ☐ PR	47. Initials <i>CS</i>	48. Date/Time <i>7/28/86</i>

Post-Sampling Calibration Records

49. Location/T & Alt. <i>Workstation</i>	50. Flow Rate Calculations <i>51.5 cc/min</i> <i>51.5 cc/min</i>			
51. Flow Rate <i>51.5 cc/min</i>	52. Initials <i>CS</i>	53. Date/Time <i>8/12/86 11:14</i>		

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No. <i>2041B</i>					
61. Substance	Results				
a. Vinyl Chloride	<i>Less than 1 mg/m³</i>				
b. Benzene	<i>Less than 12 mg/m³</i>				
c. Ethylene Dichloride	<i>Less than 60 mg/m³</i>				
d.					

62. Interferences and IH Comments to Lab

Please report any other chemicals found.

65. Analyst's Comments

63. Chain of Custody

a. Seals Intact	<i>X</i>	N		64. Supporting Samples
b. Received in Lab	<i>8/13/86</i>	<i>COH</i>		a. Blanks: <i>#1</i>
c. Received by Analyst	<i>95 JS</i>			b. Bunks:
d. Analysis Complete	<i>28 JS</i>			c. Other:
e. Calculation Checked	<i>9/6/86 P</i>			
f. Supervisor Ok.				

66. Calculations and Field Notes

NGC 14624

Sampling Report

U.S. Department of Labor
Occupational Safety and Health Administration87 705-725
0584573

Date	1. Reporting ID 452110	2. Inspection Number 147939 06	3. Sampling Number 0584573
Establishment Name B. F. Goodrich			
Person Performing Sampling (Signature) Charles H. Haganow		6. CSHO ID H0037	7. Sampling Date 8/11/86
Employee (Name, Address, Telephone Number) Area Sample Beside Carbapol Tank Farm.		13. Exposure Information a. Number 12	8. Shipping Date 8/12/86 b. Duration 3 months
b Title		11. Occupation Code	14. Weather Conditions NE Wind.
c. Frequency 1 day/week		15. Photo Y	
e (Type and effectiveness)		16. Pump Checks & Adjustments	

b Description, Operation, Work Location(s), Ventilation and Controls

Cont'd.

mp No. 7282 Sampling Data

Sample Type/Media	Charcoal	Charcoal				
Filter/Tube No.	#20A	#20B				
Sample Submission No.	#20A	#20B				
Time On/Off	12:22	12:22				
	12:38	12:38				
Exposure Time (in minutes)	16 min	16 min				
Flow Rate 1/min ☐ cc/min	51.5	51.5				
Volume (in liters)	.824L	.824L				
Net Sample Weight (in mg)						

Exposure Summary

28. Substance Code	29. Reqstd.	30. Smpl. Type	31. Exp. Type	32. Exposure Level	33. Units	34. PEL	35. Adj.	36. Severity	37. Citation Information							
									No Cit.	FTA	Over Exp.	Eng.	PPE	Trng.	Med.	Other
C2579	L	A	F													
C2580	L	A	F													
C0320	L	A	F													
874	L	A	F													

NGC 14625

Additives (Enter Line Numbers for those agents contributing to additive effect.)

Total Number of Lines (27)	4	40. Date Results Received From Laboratory	9/12/86	Case File Page	21 of 82
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Pre-Sampling Calibration Records

41. Pump Mfg. & SN	44. Flow Rate Calculations			
42. Voltage Checked? ☐ Yes ☐ No				
43. Location/T & Alt.				
	45. Flow Rate	46. Method ☐ Bubble ☐ PR	47. Initials	48. Date/Time

Post-Sampling Calibration Records

49. Location/T & Alt.	50. Flow Rate Calculations		
51. Flow Rate	52. Initials	53. Date/Time	

Sample Weight Calculations

54. Filter No.					
55. Final Weight (mg)					
56. Initial Weight (mg)					
57. Weight Gained (mg)					
58. Blank Adjustment					
59. Net Sample Weight (mg)					

Laboratory Results

60. Lab Sample No. →	21 ATB				
61. Substance	Results				
a. Vinyl Chloride	2.8 MB				
b. Benzene	" " 12 " "				
c. Ethylene Dichloride	" " 65 " "				
d.					

62. Interferences and IH Comments to Lab

Please report any other chemicals found.

65. Analyst's Comments

63. Chain of Custody

a. Seals Intact	✓	N
b. Received in Lab	9/13/80	caH
c. Received by Analyst	95	JS
d. Analysis Complete	98	JS
e. Calculation Checked	9/16/80	caH
f. Supervisor Ok.		

64. Supporting Samples

a. Blanks: #1
b. Bulks:
c. Other:

66. Calculations and Field Notes

NGC 14626