Ann - analysis file

CHEMICALS PPG INDUSTRIES INTEROFFICE / LAKE CHARLES

TO Bob Lynch

DATE October 17, 1979

FROM Ty Stubblefield

SUBJECT WTU Stripper Vent

Two analyses of the Waste Treatment Steam Stripper Vent have been done since you were last informed on October 5, 1979. The 16 minute integrated bag samples were taken when the condenser bypass was not in use. Total pounds of chlorinated hydrocarbons decreased significantly from the October 3 test. The decrease is credited to lower stack flows and condenser usage. The concentrations of chlorinated hydrocarbons remain alarmingly high. Data is attached for all three sample runs.

jj

Attach.

cc: H. J. Hoenes, Jr.
G. Jordan
W. J. Peard
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Lab File

SL 073110

31A-173-1
(Rev. 4/72)

PPG INDUSTRIES, INC
INDUSTRIAL CHEMICAL DIVISION
LAKE CHARLES, LA

Laboratory Department

Stack Flow 4.9 ACFM
Stack Temperature 92°F
Stripper Feed 600gpm w/o bypass
Time: 1317 - 1333 hrs.

Date: 10-12-79
Analyst:
FILING Data:

ANALYSIS OF: WTU Vent Sample #4

Component	V/V %	#/day Vapor	#/day Condensate**	Total #/day
VC	0.22	2.5	trace	2.5
EC	3.81	45.0	0.3	45.3
VDC	0.88	15.6	0.3	15.9
* Trans/1,1-EDC	0.84	15.1	1.1	16.2
Cis	0.94	16.7	2.5	19.2
$CHCl_3$	0.62	13.6	1.5	15.1
* 1,2-EDC/MC	1.98	42.1	10.1	52.2
CCl_4	0.09	2.5	0.4	2.9
Tri	1.12	26.9	7.9	34.8
TCE	0.28	6.8	4.0	10.8
Per	0.32	9.7	4.6	14.3
Unsym	0.05	1.5	0.3	1.8
Sym	0.10	3.1	1.0	4.1
Penta	0.04	1.5	0.3	1.8
total	11.29	202.6	34.3	236.9

* not resolved

** condensate at 32°F ice bath

SL 073111

31A-173-1
(Rev. 4/72)

Stack Flow 4.9 ACFM
Stack Temp. 86°F
Stripper Feed 400 gpm w/o bypass
Time : 1259-1315 hrs

PPG INDUSTRIES, INC
INDUSTRIAL CHEMICAL DIVISION
LAKE CHARLES, LA

Laboratory Department

Date: 10-10-79
Analyst:
FILING Data:

ANALYSIS OF: WTU Vent

Sample # 3

Component	v/v %	#/day Vapor	#/day Condensate**	Total #/day
VC	0.22	2.5	trace	2.5
EC	1.40	16.5	0.2	16.7
VDC	0.21	3.7	0.2	3.9
$MeCl_2$	trace	trace	trace	trace
Trans	0.30	5.3	trace	5.3
1,1-EDC	trace	trace	trace	trace
Cis	0.28	5.0	0.6	5.6
$CHCl_3$	0.18	3.9	0.3	4.2
1,2-EDC	3.73	67.6	16.5	84.1
MC	trace	trace	trace	trace
CCl_4	0.03	0.8	trace	0.8
Tri	0.44	10.6	1.8	12.4
TCE	0.12	2.9	1.4	4.3
Per	0.12	3.6	1.0	4.6
Unsym	0.03	0.9	0.6	1.5
Sym	0.03	0.9	0.3	1.2
Penta	0.01	0.4	0.1	0.5
total	7.10	124.6	23.0	147.6

** Condensate at 32°F ice bath.

SL 073112

31A-173-1
(Rev. 4/72)

PPG INDUSTRIES, INC
INDUSTRIAL CHEMICAL DIVISION
LAKE CHARLES, LA

Laboratory Department

Stack Flow: 5.9 ACFM
Stack Temp: 105°F
Stripper Feed: 670 gpm w/bypass
Time: 1356 - 1412 hrs.

Date: 10-03-79
Analyst:
FILING Data:

ANALYSIS OF: WTU Vent

Sample #2

Component	V/V %	#/day Vapor	#/day Condensate**	Total #/day
VC	0.26	3.6	trace	3.6
EC	2.33	33.2	1.0	34.2
VDC	0.64	13.7	0.9	14.6
$MeCl_2$	trace	trace	—	trace
Trans	0.52	11.1	—	11.1
1,1-EDC	0.62	13.5	4.3	17.8
Cis	0.76	16.3	5.0	21.3
$CHCl_3$	1.34	35.3	8.2	43.5
1,2-EDC	3.92	85.6	47.0	132.6
MC	0.58	17.1	—	17.1
CCl_4	0.12	4.1	0.9	5.0
Tri	1.14	33.1	13.8	46.9
TCE	1.28	37.7	21.0	58.7
Per	0.54	19.7	9.1	28.8
Unsym	0.15	5.6	1.1	6.7
Sym	0.18	6.7	2.3	9.0
Penta	0.03	1.3	0.3	1.6
Total	14.41	337.6	114.9	452.5

** condensate at 32° F ice bath

SL 073113