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Date 12 April 1978

To G. R. Florky/Trexlerstown Subject INDUSTRIAL HYGIENE

From C. J. Smith/Calvert City

As requested, we are sending the individual analyses which were used to obtain some of the averages reported to you in the Industrial Hygiene meeting at the Calvert City plant on 29 March 1978.

FEB 17 1978
J. C. NOVAK

If any additional information is required, please let us know.

F
C.C.
IH

C. J. Smith
C. J. SMITH

CJS:ry

Attachments

cc: R. C. Lietzau
J. C. Novak/Trexlerstown
M. H. Stermon

AP00033253

INDUSTRIAL HYGIENE

1. VCM in emulsion plant during A-728 production.

8-hr. Personnel Samples - 1975

28 analyses	< .1 ppm
16 analyses	0.1 - 0.2
1 analysis	1.88
1 analysis	3.07
1 analysis	1.48

Average <0.5 ppm.

2. The average VCM level in the PVC plant is shown monthly (by job) for the years 1974 through 1978 on the attached four tables.
3. MeOH on 3rd. floor of PVOH plant.

8-hr. Personnel Samples 1975 through 1978.

250 ppm	618	636	416
300	378	671	576
368	179	182	721
218	281	445	732
379	489	1078	691
520	621	216	1851
378	168	1683	1426
269	229	1278	1632
421	587	962	551
248	239	1018	

4. Formaldehyde in air at the Emulsion plant.

6-hr. Personnel - March, 1978

18 analyses	<.1 ppm
1 analysis	0.2

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5. Ammonia in air at the Emulsion plant.

6-hr. Personnel - March, 1978

12 analyses	<1 ppm
1 analysis	1.3
1 analysis	3.0
1 analysis	1.2
1 analysis	2.8
1 analysis	3.3
1 analysis	3.9
1 analysis	8.4
1 analysis	1.7

6. Acetone in the Acetylenics plant.

8-hr. Personnel - February, 1978

22 analyses	<1 ppm
1 analysis	1.4
1 analysis	1.64
1 analysis	3.08
1 analysis	3.87
1 analysis	4.86
1 analysis	4.64
1 analysis	1.96

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1974 VCM (ppm)

Desorption of VCM from carbon tubes with CS₂ - 77.7%

Personnel samples using Bendix C-115 pumps (4-8 hrs.) Feb. - Sept.

Personnel samples using Sipin pumps (15 minutes) Sept. - Dec.

	17							13			
	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
1st. floor	7	23	33	12	--	31	-	13	38	-	--
2nd. floor	15	37	6	7	--	<.5	13	32	13	18	30
3rd. floor	18	32	38	52	--	87	24	39	16	8	29
Utility man	-	22	-	-	--	--	-	3	41	16	7
Maint. man	-	-	-	-	--	--	-	16	12	5	31
Foreman	-	4	-	1	--	--	-	--	-	-	-
Dryer Bldg.	-	6	6	4	--	--	4	4	1	-	-
Bagger	-	-	15	12	--	--	-	6	3	-	3
Pilot plant	-	-	-	6	--	6	-	--	-	-	-
Area 5	-	-	-	-	--	2	1	6	5	.50	1.0
Compound	-	-	-	-	--	--	-	4	-	.50	.53

15.43 Ave.

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1975

1 ppm VCM - OSHA limit for 8-hr. TWA sample

15-minute Sipin personnel samples January through March

8-hr. TWA Sipin personnel samples April through December

	2			1.5								
	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Operators	3.16	6.72	5.49	1.13	.43	.56	.78	1.82	--	.46	3.71	2.72
Maintenance	1.20	1.26	4.96	.33	.42	1.10	.47	1.12	1.94	.41	3.20	6.9
Utility	.96	.86	1.50	2.27	.86	10.1	8.86	2.20	1.37	1.65	2.87	6.45
Area 5	.14	.05	--	.13	.50	.05	.50	.64	.24	.46	1.50	.77
Bagger	1.40	--	--	--	--	--	--	--	--	--	--	--
Dryer	.74	--	--	--	--	--	--	--	--	--	--	--
Compound	.32	.70	--	--	<.5	--	--	--	--	--	--	--
Foreman	--	--	--	.30	.41	.17	.56	.91	.50	.36	1.04	1.42
Laborer	--	--	--	--	1.31	.54	.36	.03	.16	.24	.22	.21

~ 576 Samples

Ave. 1.58

AP00033257

1976

8-hr. TWA Sipin personnel samples

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Operator	1.56	3.26	1.57	.94	.34	.14	.09	.50	.69	.34	1.76	-
Foreman	.37	5.55	1.14	.30	.17	.13	.04	.29	.26	-	1.59	-
Maintenance	.67	1.63	2.43	1.56	.11	.40	.14	.24	.91	4.15	-	-
Laborer	-	.07	-	-	.05	.09	.03	.08	-	-	-	-
Area 5	-	.08	.44	.71	.01	.08	.01	.12	-	-	-	-
Utility	4.13	2.98	6.24	6.38	.13	1.02	.34	.28	-	-	-	-
Laboratory	-	-	-	.24	-	-	-	-	-	-	-	-

~ 400 Samples

Ave. 1.11

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1977

	JAN*	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
Operator	-	1.94	1.79	.74	.32	.69	2.01	1.42	.59	.35	.38	.70
Foreman	-	.58	3.19	.65	.51	.90	3.33	2.93	.79	.55	.48	.73
Maintenance	-	.63	.15	.15	.02	.22	.48	1.04	.82	.37	.22	.35
Area 5	-	6.65	1.12	.62	1.58	1.22	5.14	5.16	1.94	.65	.45	.48
Utility	-	4.7	2.27	2.22	.72	1.30	.80	.35	.67	.22	.15	.45
Laboratory	-	.68	-	-	.05	1.00	.54	1.84	.97	.45	.12	.17

*NO SAMPLES.

~ 541 Samples

Ave. 1.17

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