

No. 5

E. E. SWAIN, DUPONT

STENOGRAPHER

FROM July 5, 1972

TO July 31, 1972

NO. 43-8164 (S-1004-C) • 60 SHEETS • GREGG RULED • 6 IN. x 9 IN.

S. E. & M. VERNON CO., ELIZABETH, N.J. 07208 • A DIV. OF THE MEAD CORPORATION

N38175

NPCA Heavy Metals
Cleveland - July 6, 1972

Kettering Lab -
Lit. search complete by 10-1-72
Cost $5225

Solubility Study Costs

Signate feeding study on int. paints
1. 0.06 may make - not def. yet
2. 0.5
3. 2.0
4. 0
wet dry Paint film with Pb driers
Pb naphenate
Pb octoate

DUP050047926

Paint Films to be used for sol. study
1. old-style
2. latex
3. oil

Variables

- degree of fineness of grinding = chewing
PVC - 50-60%
alkyd — synergism
latex → acrylic — bio
Particle size of pigment size orig. — enzyme
degree of curing or age of film
└ force dry but don't bake 110-125°

① Latex
① * PVA
② * acrylic
Vinyl "
EVA ethyl vinyl acetate
BD: Styrene

③ Alkyd ~~latex~~ flat -
Long oil
Short oil

④ alkyd glass

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600 g of paint film needed
for 20 rat 90 day feeding study

Rosner Hickson study -
Pb feeding study

.06 Pb based on Pb acetate

Eyeeye on
particle size
degree of cure
PVC
Metal conc.
thickness of film
additive

II

(1) Cleveland group will come up with formulas for a syn-latex paint

(2) Teas will make some powdered paint ~~that~~ for screening to see if rats will eat

Phase 2a -

Est. diff in solubility of metals of concern in diff. paints

I.

1

2

3

4

II 1 - Cleve. group - syn. formula - latex

2 Tear - samples for rats to try eating

III. Metals to be included ~~at~~ dries or 1% on metal

1. Co ~~naphthenate~~ octoate 0.9% on vehicle solids

2. Co-Ni Titanate 20%

3. Pb

Type of Coating

Metal	Cpd.	%	Acrylic	PVA	Alkyd/Oil	Glass
Co	octoate (12%) ~~0.8%~~				x	x
Pb	octoate (24%)	3.0			x	x
	chromate	25.				
Hg	phenyl (10%)	0.5	x	x	x	x
Cr	oxide	15.	x	x	x	x
Cu	phthalocyanine	5.	x	x	x	x

Ti Or Oxide
green
901

Alum silicate Clay

DUP050047930

Cost to Incinerate auto spray booth

Solv. conc 170 ppm
Inv. $7-8 MM
Annual Oper. cost ~ $1.5 MM

for 1/4 MM ft² @ 2 mils

Just. for Water	No controls	Controlled R-66 reversal
lacquer - 14% solids	26. M	3.9 M
water borne 40%	1.	1.
hi solids 80%	1.	1.

Customers in Indiana
- Otis Elevator
- General Tire
  Whiteco Industries
- Whirlpool
- Philco Ford
  Rollcoater, Greenfield Ind.
- Continental Can

For 1.5 lb solids applied
Conv. 3.5 to 7.5 lbs solvents req'd
if red. 85% → 0.5 to 1.3 lb emission
hi solids → 0.4 lb "

LA- 1971 Report 139

Industrial, Comm. Residential HC Emissions (Tons/day)

	with No Controls		Current Emission	
	Total	Reactive	Total	Reactive
	2335	610	765	155
Transp.				
	2715	1965	1700	1200

in LA Ind. = 26% of tot H.C., autos 65.7%

85
26
510
170
22.1

DUP050047932

~~[illegible]~~ Indiana APC Bd.

A. C. Offutt, M.D. Chairman APC Bd.
W. D. Christen Hear Chairman - Ind.
H. Earl Capehart APC Bd
R. G. Weldele APC Bd
Perry Miller Tech. Sec.
Glenn Sample APC Bd

~~can mail within 10 d.~~
State comm on Reg APC 15

10:20 Mr Yamada EPA Reg 5 Chicago
Div. air & water Prog.
Jerry Parker EPA, NC also here
EPA will pub Prop. reg in July
prefer Ind. to make its own reg.
proposed 15 would be OK with EPA
L Indianapolis reg.

Urge adoption of proposed amend.

DUP050047933

10[35] Mr. L. Scott APC 15
Chief Env. Control
Marion Cty also others re compl. sched
Sec 8 - para A
15 lbs or 85% red of excess
no practical way of meas. air cont.
from a single source

10[40] Earnie Williams
Ind. Chamber of Comm

10[45] R. M Copper 13 17
VP. Ind & Mich. Electric Co.
$470 MM investment to comply
$140 MM / yr. oper. cost
1400 000 consumers in Ind.

11[02] Gerald Bender ~~Donnelly~~ 15
RR Donnelly Co.
Printing Industry
70 co. 7000 employees
All inks cty organic solvents
Gravure 80-90% " 200°F
non-reactive

Lithography
offsets 400-500 F
B.P.

DUP050047934

Sec 2.
Recom.: no control in P-3 regions
exempt - non photo react. chem.
if no odor exists

Org cpds. Def as non-methane HC
Control 420.
C.4 8-14-71 Fed Reg 15291
Delete 160.
20% : .05 ppm HC
also near limit of and detection
11^20 Elaine Fisher
Muncie Ind.
APC15 too stringent + unenforceable
11^26 Carl Morris
Mfg. Eng. (Whirlpool)
7600 employees $76 MM payroll
11^29 Dr. T.H. Goodgame Dir. Env. Control Whirlpool
Sec 8b annec. burden
not req. by other states or EPA
8a - Dist bit ovens and non
only reactive should be controlled

Goodgame
proposed R-66
incl H2O exemption
hi solids "

1146 Paul Gerb 1
Env. Action Comm - Student ass'n
oppose 15 unenforceable

1150 Johns
Eco Federation
same as Elaine Fisher

1153 ~~McCormick~~
David Davis 15, 16, 17
Exec Sec. Ind. Petroleum Council
should not be appl. to all exist source

1205 Wm McCormick
PR Mgr.
Roch Ts - Refining Co 15, 16, 17

1212 Jos. Pelliter
VP. N. Ind. Pub. Service Co.
$100 mm req'd - even tho in amb stds
exempt unreactive HC

1222 Martin Miller
Pres. Retired RR employees
Sen. Citizens of Am.

12[25] John Caldwell
Atty Indianapolis Power & Lite Co
$106 MM to refit present boilers
27.5 MM/yr. oper. cost
42% rate increase needed
exempt unreactive HC
12[45] Donald Wade
Individ
designs gas burner for control of HC NO_x

use non-CH_3 cpds
15. 8b - omit unworkable
diff or impossible to detect
stock values are needed
gas should be banned from central
power plants
eff is only 30%
home gas furn. is 70%
12[53] Smith Conklin
Olin Corp Film Div.
12[58] Ken Webber
La Fayette Env. Action Fed.
12[59] Duning
Public Service Corp of Ind. $94 (yr) customer 57% increase
139 MM invest 37MM annual cost

DUP050047937

1[10] Mrs. J. Dustin
Ind. Div. Isaac Walton League
endorses EPA action

1[17] Michael Bolduc 3M
super. of poll. cont.
15.

11[27] EES

1[40] Gibbon - Mat'l Can
exempt H2O based
delete ground emiss. control

send cc: Richard E. Tallant (sales) - Lincolnwood
Gene Rice
J. I. Case Co.

Up ARC -15 T

Whirlpool — Carl Morris / TH Goodgame
Nat'l Can — Gibbon
3M — M. Boldoc
Olin Chem
RR Donnelly - Printers
L Scott - Chief Env. Control
Marion Cty Ind.
no way to meas. from single source
E. Williams - Chamb. Comm. - Discriminates
Elaine Fisher - Env. action - too stringent unenforceable
Paul Gub
Mr Johns " " " "
For
Yamada EPA Chicago
M. Miller Ret RR -
Isaac Walton League - Mr J. Dustin

DUP050047939

Reg. Prop. for Lau, tenn. - Too stringent to be workable

R-66 - 5 yrs. exp. in LA

I. Proven reasonably successful -

Ind., Comm., + Residential Emissions | Pg 9 71 report

	No Controls		With Controls	
	Total	Reactive	Total	Reactive
	2335	610	765	155
% Red			68%	~ 75%

Ind = 26% of total

II. Already adopted + approved by several states -

To force more restrictive regs on neighbors would be discriminatory + could cause shift of ind. to more reasonable states

III. Industry (Paint) has had some experience in formulating for R-66

hence could make changeover more rapidly - could ship almost immediately

IV. Economy of having to make only 1 conforming formula rather than 1/state

V. Impossible to formulate practical paints with exempt solvents proposed in Fed Reg. - Lau, Tenn etc.

VI. H_2O-borne exemptions would reduce emissions even more than orig R-66
Hi solids 80% - even more

Hi solids or H_2O-borne - red. emissions of
conform. solvents by 75%
non confor " " > 90%

DUP050047941