

P 1-701

WASTE ANALYSIS REPORT
Environmental Laboratory
PPG Industries, Inc., Lake Charles, La

Sample: VC-II Dopp Kettle Bottoms.
Location of Sample: Drums at TSCA-3.
Sample Collector: G. Prejean
Sample Method/Device: Random grab - colawasi
Date/Time of Sampling : 8-1-90 3:25 am
Date All Analyses Completed: 8-20-90 Report Submitted By: Gary Prejean
Date: 9-24-90

ANALYSIS RESULTS

Lab Log Sample No 1340

Test Parameters		Standard				
Ignitability (✓) N/A		140°F				
Corrosivity pH		2-12.5				
(✓) N/A inch/yr		0.250 max				
Reactivity						
(✓) N/A						
TCRP Toxicity (mg/L)	As	5.0 max	ND			
	Ba	100.0 max	ND			
	Cd	1.0 max	ND			
	Cr	5.0 max	0.10			
	Pb	5.0 max	ND			
	Hg	0.2 max	ND			
	Se	1.0 max	ND			
	Ag	5.0 max	ND			
N/A						

CHLORINATED HYDROCARBONS (%)

Other Parameters (if needed) (✓) N/A D/none detected	Chloroethene	(VC)		PCBs	ppm
	Chloroethane	(EC)			
	Dichloromethane	(MeCl ₂)		Heat	
	1,1-Dichloroethene	(VDC)		Value	BTU/lb
	1,1-Dichloroethane	(DCE)			
	1,2-Dichloroethene	(cis/trans)		Chlorine	%
	Trichloromethane	(CHCl ₃)			
	1,2-Dichloroethane	(EDC)		Water	wt%
	1,1,1-Trichloroethane	(MC)			
	Tetrachloromethane	(CCl ₄)		Density	g/ml
	Trichloroethene	(Trichlor)			
	1,1,2-Trichloroethane	(TCE)		Ash	wt%
	Tetrachlorethene	(Perchlor)			
	1,1,1,2-Tetrachloroethane	(unsym)		Sodium	wt%
	1,1,2,2-Tetrachloroethane	(sym)			
	Pentachloroethane	(Penta)			
	para-Dichlorobenzene	(p-DCB)			
	Hexachloroethane	(HEXA)			
	Hexachlorobutadiene	(HCED)			
	Unknown ClHC				
Total ClHC		(%)		SL 021396	

Disposal Method

Profile No

WMDS - 114701

Ensco



SGS Environmental Laboratories

E9008-038

RESULTS - Sample ID: 1340 VC-II Dopp Kettle Bottoms
SGS ID: E9008-38-10

TCLP Metals

Date Extracted: 8/13/90
Date Analyzed: 8/20/90

Concentration in ppm (mg/L) in TCLP Extract

<u>EPA HW</u>	<u>TCLP Metals</u>	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
D004	Arsenic	ND	ND	0.2
D005	Barium	ND	ND	0.02
D006	Cadmium	ND	ND	0.03
D007	Chromium	0.1	ND	0.04
D008	Lead	ND	ND	0.1
D009	Mercury	ND	ND	0.0002
D010	Selenium	ND	ND	0.2
D011	Silver	ND	ND	0.02

Total Metals

Date Analyzed: 8/14/90

Concentration in ppm (mg/Kg) in sample

	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
Antimony	ND	ND	1.0
Arsenic	ND	ND	1.0
Barium	ND	ND	0.3
Beryllium	ND	ND	0.3
Cadmium	0.5	ND	0.3
Chromium	14	ND	0.3
Lead	0.9	ND	0.5
Mercury	Not Able to Analyze	--	---
Nickel	ND	ND	0.5
Silver	ND	ND	0.3
Thallium	ND	ND	1.5

ND denotes Not Detected at a level above the method detection limit.

SL 021397



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY VOLATILES

SGS ID: E9008-038-10

PPG ID: 1340 VC-II EDC Dopp Kettle Bottoms

Date Extracted: 8/15/90

Date Analyzed: 8/16/90

Concentration in ppb (ug/L) in TCLP Extract

	1340 VC-II EDC Dopp Kettle Bottoms	Method Detection Limit	TCLP Blank	Blank Detection Limit
Benzene	ND	500	ND	5.0
Carbon Tetrachloride	ND	500	ND	5.0
Chlorobenzene	ND	500	ND	5.0
Chloroform	24,800	500	ND	5.0
1,4-Dichlorobenzene	ND	500	ND	5.0
1,2-Dichloroethane	15,225	500	ND	5.0
1,1-Dichloroethylene	18,897	500	ND	5.0
Methylethylketone	ND	1000	ND	10.0
Tetrachloroethylene	ND	500	ND	5.0
Trichloroethylene	2,364	500	ND	5.0
Vinyl Chloride	ND	1000	ND	10.0

Surrogate Standard Percent Recovery (at 0.050 mg/L)

	1340 VC-II EDC Dopp Kettle Bottoms	Blank	
1,2-Dichloroethane-d4	118 %	99 %	
Toluene-d8	96 %	98 %	
4-Bromofluorobenzene	90 %	101 %	SL 021398

ND denotes Not Detected at a level above the method detection limit.



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-038-10

PPG ID: 1340 VC-II EDC Dopp Kettle Bottoms

Not able to run due to sample matrix.

SL 021399

TEST PROCEDURE

LAB LOG NO. 1340

PARAMETER	METHOD USED																																										
Ignitability <u>✓</u> N/A	<u> </u> Pensky-Martens Closed Cup Tester ASTM Standard D-93-79	<u> </u> Setatflash Closed Cup Tester ASTM Standard D-3278-78 <u> </u> Other (Specify)																																									
Corrosivity (pH) <u>✓</u> N/A	<u> </u> SW-846 Method 9040 pH measurement	<u> </u> Other (Specify)																																									
Corrosivity (inch/yr) <u>✓</u> N/A	<u> </u> National Association of Corrosion Engineers Standard TM-01-69	<u> </u> Other (Specify)																																									
Reactivity <u>✓</u> N/A (One affirmative answer will classify waste reactive)	1. Normally unstable without detonating? 2. Reacts violently with water? 3. Forms potentially explosive mixture with water? 4. Cyanide or sulfide bearing waste which can generate toxic gases, vapor or fumes under pH conditions between 2 and 12.5? 5. Capable of detonation or explosive reaction if subjected to strong initiating source or if heated under confinement? 6. Readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure? 7. Forbidden Class A, or Class B explosive as defined in 49CFR 173.51, 173.53, and/or 173.88?																																										
TCLP*	<table border="1"> <thead> <tr> <th>Parameter</th> <th>SW 846 Method</th> </tr> </thead> <tbody> <tr><td>As</td><td>6010</td></tr> <tr><td>Ba</td><td>6010</td></tr> <tr><td>Cd</td><td>6010</td></tr> <tr><td>Cr</td><td>6010</td></tr> <tr><td>Pb</td><td>6010</td></tr> <tr><td>Hg</td><td>7470</td></tr> <tr><td>Se</td><td>6010</td></tr> </tbody> </table>	Parameter	SW 846 Method	As	6010	Ba	6010	Cd	6010	Cr	6010	Pb	6010	Hg	7470	Se	6010	<table border="1"> <thead> <tr> <th>Parameter</th> <th>SW 846 Method</th> </tr> </thead> <tbody> <tr><td>Ag</td><td>6010</td></tr> <tr><td>ClHC</td><td>5030</td></tr> <tr><td>Sodium</td><td>3050, 6010</td></tr> <tr><td>pH</td><td>9045</td></tr> </tbody> </table>	Parameter	SW 846 Method	Ag	6010	ClHC	5030	Sodium	3050, 6010	pH	9045	<table border="1"> <thead> <tr> <th>Parameter</th> <th>SW 846 Method</th> </tr> </thead> <tbody> <tr><td>PCB</td><td>LD-2571</td></tr> <tr><td>ClHC</td><td>LD-2562A</td></tr> <tr><td>Heat Value</td><td>LD-2562B</td></tr> <tr><td>Chlorine</td><td>LD-2562D</td></tr> <tr><td>Water</td><td>LD-2565</td></tr> <tr><td>Ash</td><td>LD-2561</td></tr> </tbody> </table>	Parameter	SW 846 Method	PCB	LD-2571	ClHC	LD-2562A	Heat Value	LD-2562B	Chlorine	LD-2562D	Water	LD-2565	Ash	LD-2561
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*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles

Test Parameters Analyzed and Date

Analyst(s): SGS Labs

Total metals 8-14-90

TCLP metals 8-20-90

TCLP volatiles, - - - 8-16-90

cc: File 305.4.09

Gary Prejean

SL 021400