



WASTE MATERIAL DATA SHEET

ON-YEAR RECERTIFICATION

A GENERAL INFORMATION					
CUST MER INFO Invoice Address ☐ Cert Address ☒ N/A ☐			SHIPPING FACILITY Invoice		
Contact <u>W.H. COOPER</u>			Contact <u>GINGER BUSBY</u>		
Customer Name <u>PPG INDUSTRIES, INC.</u>			Facility Name <u>PPG INDUSTRIES, INC.</u>		
Address <u>P.O. BOX 1000</u>			Address <u>P.O. BOX 1000</u>		
City <u>LAKE CHARLES</u>			City <u>LAKE CHARLES</u>		
State <u>LA</u> Zip <u>70602</u>			State <u>LA</u> Zip <u>70602</u>		
Phone # <u>(318) 491-4250</u>			Phone # <u>(318) 491-4526</u>		
USEPA ID# <u>LAD008086506</u>			USEPA ID# <u>LAD008086506</u>		
Generator Name (if different) _____					
B WASTE DESCRIPTION					
NAME OF WASTE <u>Combustible Filters</u>					
PROCESS GENERATING WASTE <u>Production of chlorinated hydrocarbons</u>					
C GENERAL CHARACTERISTICS (at 70° F unless otherwise specified)					
COLOR <u>Clear</u> ☒ LIQUID <u>5-10</u> % FREE PHASES _____					
ODOR <u>yes</u> ☒ SOLID ☐ SINGLE LAYER					
☐ NONE ☒ STRONG ☐ SLUDGE ☐ DOUBLE LAYER					
☐ MILD ☐ POWDER ☐ MULTI-LAYER					
D NFPA HAZARD CODE					
FLAMMABLE 2 2 1 HEALTH 2 2 1 REACTIVE					
Enclose copies of safety data sheets applicable to waste. Include data constituents of waste and materials used in process.					
Attachments _____ Special Instructions _____					
E SPECIAL HANDLING INSTRUCTIONS					
If special handling techniques are required, specify: <u>use OSHA approved breathing air equipment and minimize skin exposure.</u>					
Is a representative sample provided? Yes ☐ No ☒ Sample Purchase Order No. _____					
F RCRA INFORMATION					
Is this a USEPA hazardous waste? ☒ X					
Please give USEPA hazardous waste codes: <u>F025</u>					
Describe nature of reactivity if D003 waste: _____					
G SHIPPING INFORMATION					
DOT hazardous material <u>Waste, combustible liquid, X.n.o.s.*</u>					
PROPER SHIPPING NAME <u>Combustible liquid</u>					
HAZARD CLASS <u>3</u> ID # <u>NA1993</u> R/Q <u>1 lb.</u>					
ANTICIPATED VOLUME <u>700</u> GAL. _____ YDS. _____ LBS. _____					
☒ DRUM(S), BULK ☒ RAIL					
☐ ONE TIME ☐ WK ☐ MO ☒ YR OTHER _____					
Type and size of container: <u>plastic, 55 gal.</u>					
WT PER CONTAINER: <u>100 lbs.</u>					
WT PER GALLON: <u>1.81 lbs.</u>					
H 1 SPECIFIC GRAVITY					
☐ <0.8 ☐ 1.4-1.7					
☒ 0.8-1.0 ☐ >1.7					
☐ 1.0-1.2 ☐ actual					
☐ 1.2-1.4					
2 VISCOSITY (centipoise)					
☐ 1-100 ☒ UNK actual					
☐ 100-1000					
☐ 1000-10,000					
☐ > 10,000					
3 ASH (%WT)					
☐ <0.1					
☐ 0.1-1.0					
☐ 1.0-5.0					
☐ 5.0-20 ☐ actual					
☒ >20					
4 TOTAL SUSPENDED SOLIDS (%WT)					
☐ <0.5 ☐ >20					
☐ 0.5-2.0 ☒ UNK actual					
☐ 2.0-5.0					
☐ 5.0-20					
5 pH					
☐ <2 ☐ >12.5					
☒ 2-6 ☐ actual					
☐ 6-8 ☐ constituent					
☐ 8-10					
☐ 10-12.5					
6 BTU's 1000/lbs.					
☐ <1 ☐ 12-16					
☐ 1-4 ☐ >16					
☒ 4-8 <u>4.800</u> actual					
☐ 8-12					
7 FLASH POINT (closed cup)					
☐ <100 F ☐ >200 F					
☐ 100-140 F ☒ NONE actual					
☒ 140-200 F					
8 SULFUR (%WT)					
☐ <0.5 ☐ >5					
☒ 0.5-2.0 ☐ actual					
☐ 2-5					
9 HALOGENS (%)					
Chlorine <u>30-40</u> Fluorine <u>0</u>					
Bromine <u>0</u> Iodine <u>0</u>					
10 METAL ☒ TCLP (PPM) ☐ EPA E P (mg/L)					
Arsenic (As) <u><0.1</u>					
Barium (Ba) <u><1</u>					
Cadmium (Cd) <u>0.1</u>					
Chromium (Cr) <u>>5 - <1000</u>					
Mercury (Hg) <u><0.005</u>					
Lead (Pb) <u>>5 - <7500</u>					
Chromium-Hex (Cr+6) <u>UNK</u>					
Selenium (Se) <u><0.005</u>					
Silver (Ag) <u><0.03</u>					
Copper (Cu) <u>7,200</u>					
Nickel (Ni) <u>45</u>					
Zinc (Zn) <u>13</u>					
Thallium (Tl) <u><20</u>					
Other (Specify) _____					
I HAZARDOUS CHARACTERISTICS AND OTHER COMPONENTS					
Reactivity: ☒ None ☐ Explosive ☐ Pyrophoric ☐ Shock Sensitive					
☐ Water Reactive ☐ Etiological ☐ Radioactive ☐ Acutely Hazardous Waste					
Cyanides <u>NONE</u> (ppm) PCB's <u>NONE</u> (ppm) Pesticides _____					
Sulfides <u>NONE</u> (ppm) Phenolics <u>NONE</u> (ppm)					
J CHEMICAL COMPOSITION (MUST TOTAL 100%)					
<u>chloroethane</u> 2.3 % <u>PERCHLOR</u> 0.1 %					
<u>Trichloroethane</u> 0.1 % _____ %					
<u>1,1,1-Trichloroethane</u> 10.12 % _____ %					
<u>Filter cartridge</u> 75-85 % _____ %					
<u>EDC</u> 1.3 % _____ %					
<u>TCE</u> 10.17 % _____ %					
<u>UNSYM</u> 10.14 % _____ %					
<u>SYM</u> 8.10 % _____ %					
<u>PENTA</u> 2.5 % _____ %					

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED

W. H. Cooper
AUTHORIZED SIGNATURE

ENV. CRT Spec 11/18/91
TITLE DATE

PC / WSE

ENSCO USE ONLY

RECERTIFICATION DATE

SL 021665

ATTACHMENT

EDC - 1,2-Dichloroethane
Trichlor - Trichloroethane
Carbon Tet - Carbon Tetrachloride
TCE - 1,1,2-Trichloroethane
UNSYM - 1,1,1,2-Tetrachloroethane
SYM - 1,1,2,2-Tetrachloroethane
Perchlor - Perchloroethylene
Hexa - Hexachloroethane
HCBD - Hexachlorobutadiene
PDCB - Para-Dichlorobenzene

501-863-7173



American Oil Road
P O Box 1957
El Dorado, Arkansas 71731-1957

SEPTEMBER 20, 1989

PPG INDUSTRIES, INC.
ATTN: ANDY P PLAUCHE'
P.O. BOX 1000
LAKE CHARLES

PO # -----

DATE RECEIVED-- 09/07/89

LA 70669

SAMPLE: 111 TRICLOROETHANE FILTER CARTRIDGES

LAB FEES:\$ 200.00

SAMPLE #	TESTS	RESULTS
LS 00114940	BTU/LB	= 8,113.00
	% CHLORIDE	= 8.00
	% SULFATE	= .20
	% ASH	= 32.00
	FLASH POINT F	< 140.00

SL 021667

A handwritten signature in cursive script, appearing to read "Treasa Evans".
TREASA EVANS
TECHNICAL MANAGER

SL 021668



WASTE MATERIAL DATA SHEET

No. 114940

A GENERAL INFORMATION

CUST MER INFO Invoice Address ☒ Cert Address ☐ N/A ☐Contact Ginger BusbyCustomer Name PPG Industries, Inc.Address P O Box 1000City Lake CharlesState LA Zip 70602Phone # 318 491 4526USEPA ID# LAD008086506

Generator Name (if different) _____

SHIPPING FACILITY Invoice Address ☐ Cert Address ☒ N/A ☐Contact W. H. CooperFacility Name PPG Industries, Inc.Address P O Box 1000City Lake CharlesState LA Zip 70602Phone # 318 491 4250USEPA ID# LAD008086506

B WASTE DESCRIPTION

NAME OF WASTE 1,1,1-Trichloroethane Filter CartridgesPROCESS GENERATING WASTE Production of Chlorinated Hydrocarbons

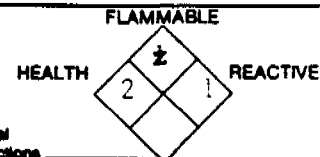
C GENERAL CHARACTERISTICS (at 70° F unless otherwise specified)

COLOR Clear ☒ LIQUID 5-10 % FREE PHASES _____ODOR Yes ☒ SOLID ☐ SINGLE LAYER☐ NONE ☒ STRONG ☐ SLUDGE ☐ DOUBLE LAYER☐ MILD ☐ POWDER ☐ MULTI-LAYER

D NFPA HAZARD CODE

Enclose copies of safety data sheets applicable to waste. Include date contents of waste and materials used in process.

Attachments _____ Special instructions _____



E SPECIAL HANDLING INSTRUCTIONS

If special handling techniques are required, specify: _____

Is a representative sample provided? Yes ☒ No ☐ Sample Purchase Order No. _____

F RCRA INFORMATION

Is this a USEPA hazardous waste? ☒ Y

Please give USEPA hazardous waste codes:

U226

Describe nature of reactivity if D003 waste: _____

G SHIPPING INFORMATION

DOT hazardous material

PROPER SHIPPING NAME 1,1,1-Trichloroethane, ORM-AHAZARD CLASS ORM-A ID # UN 2831 R/Q 1000 lbsANTICIPATED VOLUME _____ GAL _____ YDS. 8200 LBS.62 DRUM(S), BULK ☒ (N) RAIL ☒ (X)☐ ONE TIME ☐ WK ☐ MO ☒ YR OTHER _____Type and size of container: Plastic/55 gal.WT PER CONTAINER: 132 lbs.WT PER GALLON: 2.4 lbs

1	2	3	4	5	6
SPECIFIC GRAVITY	VISCOSITY (centipoise)	ASH (%WT)	TOTAL SUSPENDED SOLIDS (%WT)	pH	BTU's 1000/lbs.
☐ <0.8 ☐ 1.4-1.7 ☒ 0.8-1.0 ☐ >1.7 ☐ 1.0-1.2 ☐ _____ actual ☐ 1.2-1.4 ☐ _____ actual	☐ 1-100 ☐ <u>UNK</u> ☐ 100-1000 actual ☐ 1000-10,000 ☐ > 10,000	☐ <0.1 ☐ 0.1-1.0 ☒ 1.0-5.0 est. ☐ 5.0-20 ☐ _____ actual ☐ >20 ☐ _____ actual	☐ <0.5 ☐ > 20 ☐ 0.5-2.0 <u>UNK</u> ☐ 2.0-5.0 actual ☐ 5.0-20	☐ <2 ☐ >12.5 ☐ 2-6 ☒ 6-8 actual ☐ 8-10 ☐ 10-12.5 constituent	☐ <1 ☐ 12-16 ☐ 1-4 ☐ >16 ☐ 4-8 <u>UNK</u> ☐ 8-12 actual
7 FLASH POINT (closed cup) ☐ <100 F ☐ >200 F ☐ 100-140 F <u>None</u> ☐ 140-200 F actual	8 SULFUR (%WT) ☒ <0.5 ☐ >5 ☐ 0.5-2.0 ☐ 2-5 actual	9 HALOGENS (%) Chlorine <u>23-25</u> Fluorine <u>None</u> Bromine <u>None</u> Iodine <u>None</u>	10 METAL ☐ TOTAL (PPM) ☐ EPA E P (mg/L) Arsenic (As) _____ Barium (Ba) <u>NO FREE</u> Cadmium (Cd) _____ Chromium (Cr) <u>METALS</u> Mercury (Hg) <u>ONLY METAL</u> Lead (Pb) _____ Chromium-Hex (Cr+6) <u>CORTEX</u> Selenium (Se) _____ Silver (Ag) _____ Copper (Cu) _____ Nickel (Ni) _____ Zinc (Zn) _____ Thallium (Tl) _____ Other (Specify) _____ <u>SL 021669</u>		

11 HAZARDOUS CHARACTERISTICS AND OTHER COMPONENTS

Reactivity: ☒ None ☐ Explosive ☐ Pyrophoric ☐ Shock Sensitive☐ Water Reactive ☐ Ecological ☐ Radioactive ☐ Acutely Hazardous WasteCyanides None (ppm) PCB's None (ppm) Pesticides NoneSulfides None (ppm) Phenolics None (ppm)

I CHEMICAL COMPOSITION (MUST TOTAL 100%)

<u>Chloroethane</u>	<u>2-3</u> %				
<u>Trichloroethane</u>	<u>10-1</u> %				
<u>1,1,1-Trichloroethane</u>	<u>10-12</u> %				
<u>Filter Cartridge</u>	<u>75-85</u> %				

I HEREBY CERTIFY THAT ALL INFORMATION SUBMITTED IN THIS AND ALL ATTACHED DOCUMENTS IS COMPLETE AND ACCURATE, AND THAT ALL KNOWN OR SUSPECTED HAZARDS HAVE BEEN DISCLOSED.

PC / WSE

ENSCO USE ONLY

RECERTIFICATION DATE

AUTHORIZED SIGNATURE

TITLE

DATE

31-701

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

Sample: Product Still Bottom Filters. (WMDS-114940)
 Location of Sample: Drums at HWSA.
 Sample Collector: W. Cooper - G. Prejean
 Sample Method/Device: Random grab - hack saw
 Date/Time of Sampling : 8-7-90 1:10 pm
 Date All Analyses Completed: 9-19-90 Report Submitted By: Gary Prejean
 Date: 10-2-90

ANALYSIS RESULTS

Test Parameters		Lab Log Sample No 1366				
Ignitability (✓) N/A		Standard				
Corrosivity pH		140°F				
(✓) N/A inch/yr		2-12.5				
Reactivity		0.250 max				
(✓) N/A						
TCLP Toxicity (mg/L) N/A	As	5.0 max	0.3			
	Ba	100.0 max	0.2			
	Cd	1.0 max	0.1			
	Cr	5.0 max	61.0			
	Pb	5.0 max	11.0			
	Hg	0.2 max	ND			
	Se	1.0 max	ND			
	Ag	5.0 max	ND			
CHLORINATED HYDROCARBONS (%)						
Other Parameters (if needed) (✓) N/A ND/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%
	Tetrachloroethene	(Perchlor)				
	1,1,1,2-Tetrachloroethane	(unsvm)			Sodium	wt%
	1,1,2,2-Tetrachloroethane	(svm)				
Pentachloroethane		(Penta)				
para-Dichlorobenzene		(p-DCB)				
Hexachloroethane		(HEXA)				
Hexachlorobutadiene		(HCB ₂ D)				
Unknown ClHC					SL 021670	
Total ClHC		(%)				

Disposal Method

Ensco

Profile No

WMDS - 114940

TEST PROCEDURE

LAB LOG NO. 1366

PARAMETER	METHOD USED		
Ignitability <u>N/A</u>	<u>Pensky-Martens Closed</u> Cup Tester ASTM Standard D-93-79	<u>Setaflash Closed</u> Cup Tester ASTM Standard D-3278-78	<u>Other</u> (Specify)
Corrosivity (pH) <u>N/A</u>	<u>SW-846 Method 9040</u> pH measurement		<u>Other</u> (Specify)
Corrosivity (inch/yr) <u>N/A</u>	<u>National Association of Corrosion</u> Engineers Standard TM-01-69		<u>Other</u> (Specify)
Reactivity <u>N/A</u> 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*

N/A

Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	SW 846 Method
As	6010	Ag	6010	PCB	LD-2571
Ba	6010	ClHC	5030	ClHC	LD-2562A
Cd	6010	Sodium	3050,6010	Heat Value	LD-2562B
Cr	6010	pH	9045	Chlorine	LD-2562D
Pb	6010			Water	LD-2566
Hg	7470			Ash	LD-2561
Se	6010				

*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles Test Parameters Analyzed and Date

Analyst(s): SGS Labs

TCLP metals 8-27-90

TCLP volatiles 9-1-90

TCLP semi-volatiles 9-19-90

SL 021671

TCLP Metals

Date Extracted: 8/18/90 Concentration in ppm (mg/L) in TCLP Extract
Date Analyzed: 8/27/90

<u>EPA HW</u>	<u>TCLP Metals</u>	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
D004	Arsenic	0.3	ND	0.2
D005	Barium	0.2	ND	0.02
D006	Cadmium	0.1	ND	0.03
D007	Chromium	61	ND	0.04
D008	Lead	11	ND	0.1
D009	Mercury	ND	ND	0.0002
D010	Selenium	ND	ND	0.2
D011	Silver	ND	ND	0.02

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

SL 021672



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY VOLATILES

SGS ID: E9008-046-6

PPG ID: 1366 Product Still Bottom Filters

Date Extracted: 8/28/90

Date Analyzed: 9/01/90

Concentration in ppb (ug/L) in TCLP Extract

	1366 Product Still Bottom Filters	Method Detection Limit	TCLP Blank	Blank Detection Limit
Benzene	ND	500	ND	5.0
Carbon Tetrachloride	30,536	500	ND	5.0
Chl robenzene	ND	500	ND	5.0
Chloroform	1,500	500	ND	5.0
1,4-Dichlorobenzene	ND	500	ND	5.0
1,2-Dichloroethane	ND	500	ND	5.0
1,1-Dichloroethylene	7,400	500	ND	5.0
Methylethylketone	ND	1000	ND	10.0
Tetrachloroethylene	ND	500	ND	5.0
Trichloroethylene	2,500	500	ND	5.0
Vinyl Chloride	ND	1000	ND	10.0

Surrogate Standard Percent Recovery (at 0.050 ug/L)

	1366 Product Still Bottom Filters	Blank
1,2-Dichloroethane-d4	95 %	98 %
Toluene-d8	100 %	101 %
4-Bromofluorobenzene	97 %	112 %

SL 021673

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



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-046-6

PPG ID: 1366 Product Still Bottom Filters

Date Extracted: 9/18/90

Date Analyzed: 9/19/90

Concentration in ppb (ug/L) in TCLP Extract

	1366 Product Still Bottom Filters	Blank	Method Detection Limit
o-cresol	ND	ND	10.0
m-cresol	ND	ND	10.0
p-cresol	ND	ND	10.0
Cresol	ND	ND	10.0
2,4-Dinitrotoluene	ND	ND	10.0
Hexachlorobenzene	ND	ND	10.0
Hexachlorobutadiene	ND	ND	10.0
Hexachloroethane	ND	ND	10.0
Nitrobenzene	ND	ND	10.0
Pentachlorophenol	ND	ND	50
Pyridine	ND	ND	10.0
2,4,5-Trichlorophenol	ND	ND	10.0
2,4,6-Trichlorophenol	ND	ND	10.0

Surrogate Standard Percent Recovery (at 0.200 mg/L)

	1366 Product Still Bottom Filters	Blank
2-Fluorophenol	12 %	14 %
Phenol-d5	10 %	15 %
2,4,6-Tribromophenol	32 %	31 %
Nitrobenzene-d5	38 %	28 %
2-Fluorobiphenyl	41 %	33 %
Terphenyl-d14	18 %	11 %

SL 021674

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

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

Sample: Recycle Still Bottom Filters. (WMDS -114940)
 Location of Sample: Drums at HWSA.
 Sample Collector: W. Cooper - G. Prejean
 Sample Method/Device: Random grab - hack saw
 Date/Time of Sampling : 8-7-90 1:20 pm
 Date All Analyses Completed: 9-20-90 Report Submitted By: Gary Prejean
 Date: 10-2-90

ANALYSIS RESULTS

Test Parameters		Lab Log Sample No 1367				
Ignitability (✓) N/A		Standard				
Corrosivity pH		140°F				
(✓) N/A inch/vr		2-12.5				
Reactivity		0.250 max				
(✓) N/A						
TCLP Toxicity (mg/L) N/A	As	5.0 max	0.9			
	Ba	100.0 max	0.4			
	Cd	1.0 max	0.2			
	Cr	5.0 max	76.0			
	Pb	5.0 max	16.0			
	Hg	0.2 max	ND			
	Se	1.0 max	ND			
	Ag	5.0 max	ND			

CHLORINATED HYDROCARBONS (%)			
Other Parameters (if needed) (✓) N/A ND/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%
	Tetrachloroethene	(Perchlor)	
	1,1,1,2-Tetrachloroethane	(unsym)	Sodium wt%
	1,1,2,2-Tetrachloroethane	(sym)	
	Pentachloroethane	(Penta)	
	para-Dichlorobenzene	(p-DCB)	
	Hexachloroethane	(HEXA)	
	Hexachlorobutadiene	(HCB ₂ D)	
	Unknown ClHC		SL 021675
Total ClHC		(%)	

TEST PROCEDURE

LAB LOG NO. 1367

PARAMETER	METHOD USED		
Ignitability <u>N/A</u>	<u>Pensky-Martens Closed</u> Cup Tester ASTM Standard D-93-79	<u>Setaflash Closed</u> Cup Tester ASTM Standard D-3278-78	<u>Other</u> (Specify)
Corrosivity (pH) <u>N/A</u>	<u>SW-846 Method 9040</u> pH measurement		<u>Other</u> (Specify)
Corrosivity (inch/yr) <u>N/A</u>	<u>National Association of Corrosion</u> Engineers Standard TM-01-69		<u>Other</u> (Specify)
Reactivity <u>N/A</u> (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*

N/A

Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	SW 846 Method
As	6010	Ag	6010	PCB	LD-2571
Ba	6010	ClHC	5030	ClHC	LD-2562A
Cd	6010	Sodium	3050,6010	Heat Value	LD-2562B
Cr	6010	pH	9045	Chlorine	LD-2562D
Pb	6010			Water	LD-2566
Hg	7470			Ash	LD-2561
Se	6010				

*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles	Test Parameters Analyzed and Date	
Analyst(s): SGS Labs	TCLP metals	8-27-90
	TCLP volatiles	9-1-90
	TCLP semi-volatiles	9-20-90

SL 021676



SGS Environmental Laboratories

E9008-046

RESULTS - Sample ID: 1367 Recycle Still Bottom Filters
SGS ID: E9008-46-7

TCLP Metals

Date Extracted: 8/18/90 Concentration in ppm (mg/L) in TCLP Extract
Date Analyzed: 8/27/90

<u>EPA HW</u>	<u>TCLP Metals</u>	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
D004	Arsenic	0.9	ND	0.2
D005	Barium	0.4	ND	0.02
D006	Cadmium	0.2	ND	0.03
D007	Chromium	76	ND	0.04
D008	Lead	16	ND	0.1
D009	Mercury	ND	ND	0.0002
D010	Selenium	ND	ND	0.2
D011	Silver	ND	ND	0.02

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

SL 021677



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-046-7

PPG ID: 1367 Recycle Still Bottom Filters

Date Extracted: 9/19/90

Date Analyzed: 9/20/90

Concentration in ppb (ug/L) in TCLP Extract

	1367 Recycle Still Bottom Filters	Blank	Method Detection Limit
o-cresol	ND	ND	10.0
m-cresol	ND	ND	10.0
p-cresol	ND	ND	10.0
Cresol	ND	ND	10.0
2,4-Dinitrotoluene	ND	ND	10.0
Hexachlorobenzene	ND	ND	10.0
Hexachlorobutadiene	ND	ND	10.0
Hexachloroethane	ND	ND	10.0
Nitrobenzene	23	ND	10.0
Pentachlorophenol	ND	ND	50
Pyridine	34	ND	10.0
2,4,5-Trichlorophenol	ND	ND	10.0
2,4,6-Trichlorophenol	ND	ND	10.0

Surrogate Standard Percent Recovery (at 0.200 mg/L)

	1367 Recycle Still Bottom Filters	Blank
2-Fluorophenol	21 %	14 %
Phenol-d5	18 %	15 %
2,4,6-Tribromophenol	110 %	21 %
Nitrobenzene-d5	42 %	28 %
2-Fluorobiphenyl	26 %	33 %
Terphenyl-d14	43 %	41 %

SL 021679

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

01-701

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

Sample: MC Product Filters. (WMDS-114940)
 Location of Sample: Drums at HWSA.
 Sample Collector: W. Cooper - G. Prejean
 Sample Method/Device: Random grab - hack saw
 Date/Time of Sampling : 8-7-90 1:25 pm
 Date All Analyses Completed: 9-20-90 Report Submitted By: Gary Prejean
 Date: 10-2-90

ANALYSIS RESULTS

Test Parameters		Lab Log Sample No 1368					
Ignitability (✓) N/A		Standard					
Corrosivity pH		140°F					
(✓) N/A inch/yr		2-12.5					
Reactivity		0.250 max					
(✓) N/A							
TCLP Toxicity (mg/L) N/A	As	5.0 max	ND				
	Ba	100.0 max	ND				
	Cd	1.0 max	0.1				
	Cr	5.0 max	3.7				
	Pb	5.0 max	6.2				
	Hg	0.2 max	ND				
	Se	1.0 max	ND				
	Ag	5.0 max	ND				

CHLORINATED HYDROCARBONS (%)			
Other Parameters (if needed) (✓) N/A ND/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%
	Tetrachloroethene	(Perchlor)	
	1,1,1,2-Tetrachloroethane	(unsym)	Sodium wt%
	1,1,2,2-Tetrachloroethane	(sym)	
	Pentachloroethane	(Penta)	
	para-Dichlorobenzene	(p-DCB)	
	Hexachloroethane	(HEXA)	
	Hexachlorobutadiene	(HCB ₂ D)	
	Unknown ClHC		
Total ClHC		(%)	SL 021680

Disposal Method Profile No WMDS - 114940

Ensco

TEST PROCEDURE

LAB LOG NO. 1368

PARAMETER	METHOD USED
Ignitability <u>✓</u> N/A	<u> </u> Pensky-Martens Closed <u> </u> Setaflash Closed <u> </u> Other Cup Tester ASTM Cup Tester ASTM (Specify) Standard D-93-79 Standard D-3278-78
Corrosivity pH <u>✓</u> N/A	<u> </u> SW-846 Method 9040 <u> </u> Other pH measurement (Specify)
Corrosivity (inch/yr) <u>✓</u> N/A	<u> </u> National Association of Corrosion <u> </u> Other Engineers Standard TM-01-69 (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*

 N/A

Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	SW 846 Method
As	6010	Ag	6010	PCB	LD-2571
Ba	6010	ClHC	5030	ClHC	LD-2562A
Cd	6010	Sodium	3050,6010	Heat Value	LD-2562B
Cr	6010	pH	9045	Chlorine	LD-2562D
Pb	6010			Water	LD-2566
Hg	7470			Ash	LD-2561
Se	6010				

*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles Test Parameters Analyzed and Date

Analyst(s): SGS Labs

TCLP metals 8-27-90

TCLP volatiles 9-1-90

TCLP semi-volatiles 9-20-90

SL 021681



SGS Environmental Laboratories

E9008-046

RESULTS - Sample ID: 1368 MC Product Filters
SGS ID: E9008-46-8

TCLP Metals

Date Extracted: 8/18/90 Concentration in ppm (mg/L) in TCLP Extract
Date Analyzed: 8/27/90

<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	0.1	ND	0.03
D007	Chromium	3.7	ND	0.04
D008	Lead	6.2	ND	0.1
D009	Mercury	ND	ND	0.0002
D010	Selenium	ND	ND	0.2
D011	Silver	ND	ND	0.02

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

SL 021682



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY VOLATILES

SGS ID: E9008-046-8

PPG ID: 1368 MC Product Filters

Date Extracted: 8/28/90

Date Analyzed: 9/01/90

Concentration in ppb (ug/L) in TCLP Extract

	<u>1368 MC Product Filters</u>	<u>Method Detection Limit</u>	<u>TCLP Blank</u>	<u>Blank Detection Limit</u>
Benzene	ND	250	ND	5.0
Carbon Tetrachloride	ND	250	ND	5.0
Chlorobenzene	ND	250	ND	5.0
Chloroform	ND	250	ND	5.0
1,4-Dichlorobenzene	ND	250	ND	5.0
1,2-Dichloroethane	ND	250	ND	5.0
1,1-Dichloroethylene	13,800	250	ND	5.0
Methylethylketone	ND	500	ND	10.0
Tetrachloroethylene	320	250	ND	5.0
Trichloroethylene	ND	250	ND	5.0
Vinyl Chloride	ND	500	ND	10.0

Surrogate Standard Percent Recovery (at 0.050 ug/L)

	<u>1368 MC Product Filters</u>	<u>Blank</u>
1,2-Dichloroethane-d4	94 %	98 %
Toluene-d8	97 %	101 %
4-Bromofluorobenzene	98 %	112 %

SL 021683

ND denotes Not Detected at a lev 1 above the method detection limit.



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-046-8

PPG ID: 1368 MC Product Filters

Date Extracted: 9/19/90

Date Analyzed: 9/20/90

Concentration in ppb (ug/L) in TCLP Extract

	<u>1368 MC Product Filters</u>	<u>Blank</u>	<u>Method Detection Limit</u>
o-cresol	ND	ND	10.0
m-cresol	ND	ND	10.0
p-cresol	ND	ND	10.0
Cresol	ND	ND	10.0
2,4-Dinitrotoluene	ND	ND	10.0
Hexachlorobenzene	ND	ND	10.0
Hexachlorobutadiene	ND	ND	10.0
Hexachloroethane	ND	ND	10.0
Nitrobenzene	ND	ND	10.0
Pentachlorophenol	ND	ND	50
Pyridine	ND	ND	10.0
2,4,5-Trichlorophenol	ND	ND	10.0
2,4,6-Trichlorophenol	ND	ND	10.0

Surrogate Standard Percent Recovery (at 0.200 mg/L)

	<u>1368 MC Product Filters</u>	<u>Blank</u>
2-Fluorophenol	110 %	14 %
Phen 1-d5	57 %	15 %
2,4,6-Tribromophenol	99 %	3 %
Nitrobenzene-d5	32 %	28 %
2-Fluorobiphenyl	38 %	33 %
Terphenyl-d14	21 %	41 %

SL 021684

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