

GENERAL WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

RECERTIFICATION

SUBMITTED TO WASTE TECH SERVICES
DATE: November 29, 1990

WTS -001

Waste Profile Sheet Code

A. GENERAL INFORMATION

1. Generator Name: PPG Industries, Inc. 2. Generator USEPA ID: LAD 008086506
3. Facility Address: P. O. Box 1000 4. Generator State ID: Same
Lake Charles, LA
(Columbia Southern Road) 5. Zip Code: 70602
6. Technical Contact: Gerald L. Perry 7. Title: Env. Control Spec. 8. Phone: (318) 491-4370

B. MAIL WASTE TECH SERVICES

INVOICES TO 1. ☒ Generating Facility (A, above), or

2. Company Name: _____ 3. Phone: () _____
4. Address: _____
5. Zip Code: _____

C. 1. NAME OF WASTE Classifier/WTU Separator Sludge
2. PROCESS GENERATING WASTE Derivatives Waste Treatment Unit
3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, DO NOT COMPLETE this form.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color: <u>Black</u>	2. Does the waste have a strong incidental odor? ☐ No ☒ Yes If known, describe: _____	3. Physical State @ 70°F: ☐ Solid ☒ Semi-Solid ☐ Liquid ☐ Powder Other: <u>Sludge</u>	4. Layers: ☐ Multilayered ☒ Bi-layered ☐ Single Phased	5. Specific Gravity: Range: <u>1.2</u> - <u>1.4</u>	6. Free Liquids: ☒ Yes ☐ No Volume: _____ %
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7. pH: ☐ ≤ 2 ☒ > 2-4 ☐ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☒ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

	RANGE		
	MIN.	MAX.	
Water	20	50	%
Ash	5	25	%
Chlorinated Hydrocarbons	20	50	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%
	-	-	%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%.

TOTAL: 125 %

2. Indicate if this waste contains any of the following

	NONE	or	LESS THAN	or	ACTUAL
PCB's	☐	<	50 ppm		ppm
Cyanides	☒	<	50 ppm		ppm
Phenolics	☒	<	50 ppm		ppm
Sulfides	☐	<	50 ppm		ppm

F. METALS Indicate if this waste contains any of the following:

	1. ☒ EXTOX/TCLP	or	2. ☐ Total	
METAL	LESS THAN	or	ACTUAL	
	(Parts Per Million)			
Arsenic	☒ < 5	☐ < 500		
Barium	☒ < 100			
Cadmium	☒ < 1	☐ < 100		
Chromium	☒ < 5			
Lead	☒ < 5	☐ < 500		
Mercury	☐ < 0.2	☐ < 20		<u>0.3</u>
Selenium	☒ < 1	☐ < 100		
Silver	☐ < 5			
Chromium-Hex	☒ < 5	☐ < 500		
Copper	☐ < 5			<u>UNK</u>
Nickel	☐ < 5	☒ < 134		
Thallium	☒ < 5	☐ < 130		
Zinc	☐ < 5			

SL 021878

GENERATOR'S WASTE MATERIAL PROFILE SHEET (Continued)

WTS-001

Waste Profile Sheet Code

G. OTHER HAZARDOUS CHARACTERISTICS

- Is this waste a listed solvent waste as defined by 40 CFR 261.31 (F001, F002, F003, F004, or F005)? ☐ Yes ☒ No
- Does this waste contain greater than 1000 ppm total halogenated organic compounds? ☒ Yes ☐ No
- Indicate if this waste is any of the following:

☐ RCRA Reactive	☐ Radioactive
☐ Water Reactive	☐ Etiological
☐ Explosive	☐ Pesticide Manufacturing Waste
☐ Shock Sensitive	☐ Other _____
☐ Pyrophoric	☒ None of the above

H. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS or INCINERATION

	LESS THAN	or	ACTUAL	
Beryllium	☒ < 5000 ppm		UNK	ppm
Potassium	☐ < 5000 ppm		UNK	ppm
Sodium	☒ < 5000 ppm		UNK	ppm
Total Bromine	☐ < 2 %		UNK	%
Total Chlorine	☒ < 35 %		UNK	%
Total Fluorine	☐ < 1 %		UNK	%
Total Sulfur			UNK	%

I. OPTIONAL — RECLAMATION, FUELS, OR INCINERATION PARAMETERS Provide if information is available.

- Heat Value (BTU/lb): 700 ^{Range} 2000
- Water: 20-50 %
- Viscosity (cps): _____ @ ☐ _____ °F ☐ 100°F ☐ 150°F
- Ash: 5-25 %
- Settleable solids: _____ %
- Vapor Pressure @ STP (mm/Hg): _____
- Is this waste a pumpable liquid? ☒ Yes ☐ No
Type of pump: _____
- Can this waste be heated to improve flow? ☐ Yes ☒ No
- Is this waste soluble in water? ☐ Yes ☒ No
- Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? ☐ Yes ☒ No

J. TRANSPORTATION INFORMATION

- Is this a DOT Hazardous Material? ☒ Yes ☐ No
- Anticipated Annual Volume/Units: _____
- Proper Shipping Name: Waste Flammable liquid, n.o.s., Flammable liquid, UN1993, RQ*
- Hazard Class: Flammable liquid 5. I.D. #: UN1993
- Additional Description: (*Ethylene Dichloride, Ethyl Chloride) [Technical names]
- Method of Shipment: ☒ Bulk Liquid ☐ Bulk Solid ☒ Drum (Type/Size): 55 gal / 16 Other: _____
- CERCLA Reportable Quantity (RQ): 1 9. RQ Units (lb/kg): 16
- USEPA Hazardous Waste? ☒ Yes ☐ No
- USEPA Hazardous Waste Number(s): F024, D001, D009, D022, D0
- State Hazardous Waste? ☒ Yes ☐ No
- State Hazardous Waste Number(s): D029, D039, D040 (State and EPA the same)

K. SPECIAL HANDLING INFORMATION

MSDS-LC-5C

☐ Additional Page(s) Attached

L. GENERATOR CERTIFICATION I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

Gerald L. Perry
Signature

Gerald L. Perry

Env. Control Spec.

2. Title

12/14/00

3. Name (Type or Print)

4. Date

SL 021879

1-701

STE ANALYSIS REPORT
Environmental Laboratory
EPG Industries, Inc., Lake Charles, La.

Sample: South Classifier Sludge. WTS-001

Location of Sample: Drums at HWSA.

Sample Collector: W. Cooper

Sample Method/Device: Random grab - dipper

Date/Time of Sampling: 8-2-90 5:30 am

Date All Analyses Completed: 9-6-90

Report Submitted By: Gary Prejean
Date: 9-24-90

ANALYSIS RESULTS

Test Parameters		Lab Log Sample No 1351				
Corrosivity	Penetrability	N/A	140°F			
	pH		2-12.5			
	inch/yr		0.250 max			
Reactivity						
ICLP Toxicity (mg/L)	As	5.0 max	ND			
	Ba	100.0 max	1.70			
	Cd	1.0 max	0.30			
	Cr	5.0 max	1.10			
	Pb	5.0 max	0.40			
	Hg	0.2 max	0.30			
	Se	1.0 max	ND			
	Ag	5.0 max	0.02			
CHLORINATED HYDROCARBONS (%)						
Other Parameters (if needed)	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)				
None detected	Pentachloroethane	(Penta)				
	para-Dichlorobenzene	(p-DCB)				
	Hexachloroethane	(HEXA)				
	Hexachlorocyclopentadiene	(HCB ₅)				
	Unknown ClHC					
Total ClHC		(%)		SL 021880		

Disposal Method

Profile No WTS - 001



SGS Environmental Laboratories

E9008-038

RESULTS - Sample ID: 1351 Classifier Sludge

SGS ID: E9008-38-17

TCLP Metals

Date Extracted: 8/14/90

Concentration in ppm (mg/L) in TCLP Extract

Date Analyzed: 8/17/90

<u>EPA HW</u>	<u>TCLP Metals</u>	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
D004	Arsenic	ND	ND	0.5*
D005	Barium	1.7	ND	0.02
D006	Cadmium	0.3	ND	0.03
D007	Chromium	1.1	ND	0.04
D008	Lead	0.4	ND	0.1
D009	Mercury	0.3	ND	0.0002
D010	Selenium	ND	ND	0.3
D011	Silver	0.02	ND	0.02

Total Metals

Date Analyzed: 8/20/90

Concentration in ppm (mg/Kg) in sample

	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
Antimony	ND	ND	20
Arsenic	ND	ND	20
Barium	85	ND	2.0
Beryllium	ND	ND	2.0
Cadmium	6.3	ND	3.0
Chromium	114	ND	4.0
Lead	44	ND	10.0
Mercury	23/22	ND	0.09
Nickel	110	ND	10.0
Silver	ND	ND	2.0
Thallium	ND	ND	30

* High MDL due to spectral interferences.

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

SL 021881



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY VOLATILES

SGS ID: E9008-038-17

PPG ID: 1351 Classifier Sludge

Date Extracted: 8/27/90

Date Analyzed: 8/29/90

Concentration in ppb (ug/L) in TCLP Extract

	<u>1351 Classifier Sludge</u>	<u>Method Detection Limit</u>	<u>TCLP Blank</u>	<u>Blank Detection Limit</u>
Benzene	400	250	ND	5.0
Carbon Tetrachloride	2,150	250	ND	5.0
Chlorobenzene	325	250	ND	5.0
Chloroform	33,100	250	ND	5.0
1,4-Dichlorobenzene	ND	250	ND	5.0
1,2-Dichloroethane	13,000	250	ND	5.0
1,1-Dichloroethylene	8,950	250	ND	5.0
Methylethylketone	7,200	500	ND	10.0
Tetrachloroethylene	60,550	250	ND	5.0
Trichloroethylene	35,050	250	ND	5.0
Vinyl Chloride	ND	500	ND	10.0

Surrogate Standard Percent Recovery (at 0.050 mg/L)

	<u>1351 Classifier Sludge</u>	<u>Blank</u>
1,2-Dichloroethane-d4	103 %	98 %
Toluene-d8	91 %	101 %
4-Bromofluorobenzene	83 %	112 %

SL 021882

ND d notes N t Det cted at a l v l above the method d tecton limit.



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-038-17

PPG ID: 1351 Classifier Sludge

Date Extracted: 8/31/90

Date Analyzed: 9/06/90

Concentration in ppb (ug/L) in TCLP Extract

	1351 Classifier Sludge	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	50
2,4,6-Trichlorophenol	ND	ND	50

Surrogate Standard Percent Recovery (at 0.200 mg/L)

	1351 Classifier Sludge	Blank	
2-Fluorophenol	10 %	17 %	
Phenol-d5	15 %	18 %	
2,4,6-Tribromophenol	14 %	32 %	SL 021883
Nitrobenzene-d5	25 %	33 %	
2-Fluorobiphenyl	17 %	38 %	
Terphenyl-d14	46 %	41 %	

ND denotes N t Detected at a level above the meth d detection limit.

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

Sample: South Classifier Sludge. (WTS-001)
 Location of Sample: Drums at HWSA.
 Sample Collector: W. Cooper
 Sample Method/Device: Random grab - dipper
 Date/Time of Sampling: 8-2-90 5:30 am
 Date All Analyses Completed: 9-6-90 Report Submitted By: Gary Prejean
 Date: 9-24-90

ANALYSIS RESULTS

Test Parameters		Lab Log Sample No 1351			
Ignitability (✓) N/A		Standard			
Corrosivity pH		140°F			
(✓) N/A inch/yr		2-12.5			
Reactivity		0.250 max			
(✓) N/A					
ICLP Toxicity (mg/L) (N/A)	As	5.0 max	ND		
	Ba	100.0 max	1.70		
	Cd	1.0 max	0.30		
	Cr	5.0 max	1.10		
	Pb	5.0 max	0.40		
	Hg	0.2 max	0.30		
	Se	1.0 max	ND		
	Ag	5.0 max	0.02		

CHLORINATED HYDROCARBONS (%)			
Other Parameters (if needed) (✓) N/A If/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	(HCB ₂ D)	
	Unknown ClHC		
Total ClHC		(%)	SL 021884

Disposal Method

Profile No

WTS - 001

Waste Tech

TEST PROCEDURE

LAB LOG NO. 1001

PARAMETER	METHOD USED	
Ignitability ✓ N/A	☐ Pensky-Martens Closed Cup Tester ASTM Standard D-93-79	☐ Setaflash Closed Cup Tester ASTM Standard D-3278-78 ☐ Other (Specify)
Corrosivity (pH) ✓ N/A	☐ SW-846 Method 9040 pH measurement	☐ Other (Specify)
Corrosivity (inch/yr) ✓ N/A	☐ National Association of Corrosion Engineers Standard TM-01-69	☐ Other (Specify)
Reactivity ✓ 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			Asn	LD-2567
Se	6010				

*Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Lake Charles	Test Parameters Analyzed and Date	
Analyst(s): SGS Labs	Total metals	8-20-90
	TCLP metals	8-17-90
	TCLP volatiles	8-29-90
	TCLP semi-volatiles	9-6-90

CC:

Gary Prejean

SL 021885



SGS Environmental Laboratories

E9008-038

RESULTS - Sample ID: 1351 Classifier Sludge

SGS ID: E9008-38-17

TCLP Metals

Date Extracted: 8/14/90

Concentration in ppm (mg/L) in TCLP Extract

Date Analyzed: 8/17/90

<u>EPA HW</u>	<u>TCLP Metals</u>	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
D004	Arsenic	ND	ND	0.5*
D005	Barium	1.7	ND	0.02
D006	Cadmium	0.3	ND	0.03
D007	Chromium	1.1	ND	0.04
D008	Lead	0.4	ND	0.1
D009	Mercury	0.3	ND	0.0002
D010	Selenium	ND	ND	0.3
D011	Silver	0.02	ND	0.02

Total Metals

Date Analyzed: 8/20/90

Concentration in ppm (mg/Kg) in sample

	<u>Result</u>	<u>Blank</u>	<u>Method Detection Limit</u>
Antimony	ND	ND	20
Arsenic	ND	ND	20
Barium	85	ND	2.0
Beryllium	ND	ND	2.0
Cadmium	6.3	ND	3.0
Chromium	114	ND	4.0
Lead	44	ND	10.0
Mercury	23/22	ND	0.09
Nickel	110	ND	10.0
Silver	ND	ND	2.0
Thallium	ND	ND	30

* High MDL due to spectral interferences.

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

SL 021886



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY VOLATILES

SGS ID: E9008-038-17

PPG ID: 1351 Classifier Sludge

Date Extracted: 8/27/90

Date Analyzed: 8/29/90

Concentration in ppb (ug/L) in TCLP Extract

	<u>1351 Classifier Sludge</u>	<u>Method Detection Limit</u>	<u>TCLP Blank</u>	<u>Blank Detection Limit</u>
Benzene	400	250	ND	5.0
Carbon Tetrachloride	2,150	250	ND	5.0
Chlorobenzene	325	250	ND	5.0
Chloroform	33,100	250	ND	5.0
1,4-Dichlorobenzene	ND	250	ND	5.0
1,2-Dichloroethane	13,000	250	ND	5.0
1,1-Dichloroethylene	8,950	250	ND	5.0
Methylethylketone	7,200	500	ND	10.0
Tetrachloroethylene	60,550	250	ND	5.0
Trichloroethylene	35,050	250	ND	5.0
Vinyl Chloride	ND	500	ND	10.0

Surrogate Standard Percent Recovery (at 0.050 ug/L)

	<u>1351 Classifier Sludge</u>	<u>Blank</u>	
1,2-Dichloroethane-d4	103 %	98 %	
Toluene-d8	91 %	101 %	
4-Bromofluorobenzene	83 %	112 %	SL 021887

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



SGS Environmental Laboratories

E9008-038

RESULTS - TCLP TOXICITY SEMIVOLATILES

SGS ID: E9008-038-17

PPG ID: 1351 Classifier Sludge

Date Extracted: 8/31/90

Date Analyzed: 9/06/90

Concentration in ppb (ug/L) in TCLP Extract

	1351 Classifier <u>Sludge</u>	<u>Blank</u>	Method <u>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	50
2,4,6-Trichlorophenol	ND	ND	50

Surrogate Standard Percent Recovery (at 0.200 mg/L)

	1351 Classifier <u>Sludge</u>	<u>Blank</u>	
2-Fluorophenol	10 %	17 %	
Phenol-d5	15 %	18 %	
2,4,6-Tribromophenol	14 %	32 %	
Nitrobenzene-d5	25 %	33 %	
2-Fluorobiphenyl	17 %	38 %	SL 021888
Terphenyl-d14	46 %	41 %	

ND denotes N t Detected at a level above the meth d detection limit.

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Ella. 12-pitch).

Revised 10/3/88

falc

SUBMITTED TO WASTE TECH SERVICES

DATE: 9/28/88

WTS-001

Waste Profile Sheet Code

(PPG Lab Log#s 793, 794)

A. GENERAL INFORMATION

1. Generator Name: PPG Industries, Inc.
 2. Generator USEPA ID: LAD 008086506
 3. Facility Address: P. O. Box 1000
 Lake Charles, LA
 (Columbia Southern Road)
 4. Generator State ID: Same
 5. Zip Code: 70602
 6. Technical Contact: Anne Corbello
 7. Title: Laboratory Associate
 8. Phone: (318) 491 4364

B. MAIL WASTE TECH SERVICES

INVOICES TO 1. ☒ Generating Facility (A, above), or

2. Company Name:
 3. Phone: ()
 4. Address:
 5. Zip Code:

C. 1. NAME OF WASTE Classifier/WTU Separator Sludge
 2. PROCESS GENERATING WASTE Production of chlorinated hydrocarbon waste recovery unit
 3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, DO NOT COMPLETE this form.

D. PHYSICAL CHARACTERISTICS OF WASTE

Color: Black
 2. Does the waste have a strong incidental odor?
☐ No ☒ Yes If known, describe:
 3. Physical State @ 70°F:
☒ Solid ☒ Semi-Solid
☐ Liquid ☐ Powder
 Other:
 4. Layers:
☐ Multilayered
☒ Bi-layered
☐ Single Phased
 5. Specific Gravity:
 Range: 1.2 - 1.4
 6. Free Liquids:
☒ Yes ☐ No
 Volume: 5-10
 7. pH: ☐ ≤ 2 ☒ > 2-4 ☐ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range ☐ NA
 8. Liquid Flash Point: ☐ < 73°F ☒ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ None ☒ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION *

	RANGE	
	MIN. - MAX.	
Water	20 - 50	%
Ash	5 - 20	%
Chlorinated Hydrocarbons	30 - 50	%
Solids	90 - 95	%
*Reference Analysis Reports LL#793 and LL#794		%

F. METALS Indicate if this waste contains any of the following:

1. ☐ EP TOX/TCLP or 2. ☒ Total METAL	LESS THAN	or	ACTUAL
			(Parts Per Million)
Arsenic	☐ < 5	☐ < 500	0.92
Barium	☐ < 100		3317
Cadmium	☐ < 1	☐ < 100	4.26
Chromium	☐ < 5		165
Lead	☐ < 5	☐ < 500	14.9
Mercury	☐ < 0.2	☐ < 20	1.17
Selenium	☐ < 1	☐ < 100	0.64
Silver	☐ < 5		< 1.42
Chromium-Hex	☐ < 5	☐ < 500	UNK
Copper	☐ < 5		358
Nickel	☐ < 5	☐ < 134	345
Thallium	☐ < 5	☐ < 130	UNK
Zinc	☐ < 5		UNK

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%.

TOTAL: > 120 %

2. Indicate if this waste contains any of the following:

	NONE	or	LESS THAN	or	ACTUAL
PCB's	☐	☒	< 50 ppm		16 ppm
Cyanides	☐	☐	< 50 ppm		ppm
Phenolics	☐	☐	< 50 ppm		ppm
Sulfides	☐	☐	< 50 ppm		ppm

SL 021889

GENERATOR'S WASTE MATERIAL PROFILE SHEET (Continued)

WTS-001

Waste Profile Sheet Code

G. OTHER HAZARDOUS CHARACTERISTICS

- Is this waste a listed solvent waste as defined by 40 CFR 261.31 (F001, F002, F003, F004, or F005)? ☐ Yes ☒ No
- Does this waste contain greater than 1000 ppm total halogenated organic compounds? ☒ Yes ☐ No
- Indicate if this waste is any of the following:

☐ RCRA Reactive	☐ Radioactive
☐ Water Reactive	☐ Etiological
☐ Explosive	☐ Pesticide Manufacturing Waste
☐ Shock Sensitive	☐ Other _____
☐ Pyrophoric	☒ None of the above

H. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS or INCINERATION

	LESS THAN	or	ACTUAL
Beryllium	☐ < 5000 ppm		<u>< 0.71</u> ppm
Potassium	☐ < 5000 ppm		<u>UNK</u> ppm
Sodium	☐ < 5000 ppm		<u>0.63</u> ppm
Total Bromine	☐ < 2 %		<u>UNK</u> %
Total Chlorine	☐ < 35 %		<u>30.35</u> %
Total Fluorine	☐ < 1 %		<u>UNK</u> %
Total Sulfur			<u>UNK</u> %

I. OPTIONAL — RECLAMATION, FUELS, OR INCINERATION PARAMETERS Provide if information is available.

- Range
- Heat Value (BTU/lb): 700 - 2000
 - Water: 20-50 %
 - Viscosity (cps): _____ @ ☐ _____ °F ☐ 100°F ☐ 150°F
 - Ash: 5-20 %
 - Settleable solids: 90-95 %
 - Vapor Pressure @ STP (mm/Hg): _____
 - Is this waste a pumpable liquid? ☒ Yes ☐ No
Type of pump? dry vac
 - Can this waste be heated to improve flow? ☐ Yes ☒ No
 - Is this waste soluble in water? ☐ Yes ☒ No
 - Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? ☐ Yes ☒ No

J. TRANSPORTATION INFORMATION

- Is this a DOT Hazardous Material? ☒ Yes ☐ No
- Anticipated Annual Volume/Units: 1800 / tons (Ma
- Proper Shipping Name: Waste flammable liquid, n.o.s.
- Hazard Class: Flammable Liquid
- I.D. #: UN1993
- Additional Description: (chlorinated hydrocarbons)
- Method of Shipment: ☒ Bulk Liquid ☐ Bulk Solid ☒ Drum (Type/Size): DOT21-C, 55 gal Other: _____
- CERCLA Reportable Quantity (RQ): 1
- RQ Units (lb/kg): 1b
- USEPA Hazardous Waste? ☒ Yes ☐ No
- USEPA Hazardous Waste Number(s): F024/D001
- State Hazardous Waste? ☒ Yes ☐ No
- State Hazardous Waste Number(s): F024/D001

K. SPECIAL HANDLING INFORMATION MSDS LC-5C

☐ Additional Page(s) Attached

L. GENERATOR CERTIFICATION I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

1. Gerald L. Perry by G.L.P. 2. J. Anne Corbello 10/3/88 Laboratory Associate
Signature Title
3. GERALD L. PERRY 4. 9/28/88 SL 021890
Name (Type or Print) Date

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Eink, 12-pitch).

SUBMITTED TO WASTE TECH SERVICES

DATE: 9/28/88

WTS -001

Waste Profile Sheet Code

(PPG Lab Log#s 793, 794)

A. GENERAL INFORMATION

1. Generator Name: PPG Industries, Inc. 2. Generator USEPA ID: LAD 008086506
 3. Facility Address: P. O. Box 1000 4. Generator State ID: Same
Lake Charles, LA
(Columbia Southern Road) 5. Zip Code: 70602
 6. Technical Contact: Anne Corbello 7. Title: Laboratory Associate 8. Phone: (318) 491 4364

B. MAIL WASTE TECH SERVICES

INVOICES TO 1. ☒ Generating Facility (A, above), or

2. Company Name: _____ 3. Phone: () _____

4. Address: _____

5. Zip Code: _____

C. 1. NAME OF WASTE Classifier/WTU Separator Sludge

2. PROCESS GENERATING WASTE Production of chlorinated hydrocarbon waste recovery unit

3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?

☐ Yes ☒ No If yes, DO NOT COMPLETE this form.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color: <u>Black</u>	2. Does the waste have a strong incidental odor? ☐ No ☒ Yes If known, describe: _____	3. Physical State @ 70°F: ☐ Solid ☒ Semi-Solid ☐ Liquid ☐ Powder Other: <u>Sludge</u>	4. Layers: ☐ Multilayered ☒ Bi-layered ☐ Single Phased	5. Specific Gravity: Range: <u>1.2 - 1.4</u>	6. Free Liquids: ☒ Yes ☐ No Volume: <u>5-10</u>
---------------------------	---	---	---	---	--

7. pH: ☐ ≤ 2 ☒ > 2-4 ☐ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ ☐ I

8. Liquid Flash Point: ☐ < 73°F ☒ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ None ☒ Closed Cup ☐ Open C

E. CHEMICAL COMPOSITION *

	RANGE		%
	MIN.	MAX.	
1. <u>Water</u>	<u>20</u>	<u>50</u>	%
<u>Ash</u>	<u>5</u>	<u>20</u>	%
<u>Chlorinated Hydrocarbons</u>	<u>30</u>	<u>50</u>	%
<u>*Reference Analysis Reports LL#793 and LL#794</u>			%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%.

TOTAL: 120 %

2. Indicate if this waste contains any of the following:

	NONE	or LESS THAN	or ACTUAL
PCB's	☐	☒ < 50 ppm	<u>16</u> ppm
Cyanides	☐	☐ < 50 ppm	_____ ppm
Phenolics	☐	☐ < 50 ppm	_____ ppm
Sulfides	☐	☐ < 50 ppm	_____ ppm

F. METALS Indicate if this waste contains any of the following:

METAL	1. ☐ EP TOX/TCLP	or	2. ☒ Total	LESS THAN	or ACTUAL
				(Parts Per Million)	
Arsenic	☐ < 5	☐ < 500		<u>0.9</u>	
Barium	☐ < 100			<u>331</u>	
Cadmium	☐ < 1	☐ < 100		<u>4.2</u>	
Chromium	☐ < 5			<u>165</u>	
Lead	☐ < 5	☐ < 500		<u>14.</u>	
Mercury	☐ < 0.2	☐ < 20		<u>1.1</u>	
Selenium	☐ < 1	☐ < 100		<u>0.6</u>	
Silver	☐ < 5			<u>< 1.4</u>	
Chromium-Hex	☐ < 5	☐ < 500		<u>UNK</u>	
Copper	☐ < 5			<u>358</u>	
Nickel	☐ < 5	☐ < 134		<u>345</u>	
Thallium	☐ < 5	☐ < 130		<u>UNK</u>	
Zinc	☐ < 5			<u>UNK</u>	

SL 021891

GENERATOR'S WASTE MATERIAL PROFILE SHEET (Continued)

WTS-001

Waste Profile Sheet Code

G. OTHER HAZARDOUS CHARACTERISTICS

- Is this waste a listed solvent waste as defined by 40 CFR 261.31 (F001, F002, F003, F004, or F005)? ☐ Yes ☒ No
- Does this waste contain greater than 1000 ppm total halogenated organic compounds? ☒ Yes ☐ No
- Indicate if this waste is any of the following:

☐ RCRA Reactive	☐ Radioactive
☐ Water Reactive	☐ Etiological
☐ Explosive	☐ Pesticide Manufacturing Waste
☐ Shock Sensitive	☐ Other _____
☐ Pyrophoric	☒ None of the above

H. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS or INCINERATION

	LESS THAN	or	ACTUAL
Beryllium	☐ < 5000 ppm		<u>< 0.71</u> ppm
Cadmium	☐ < 5000 ppm		<u>UNK</u> ppm
Sodium	☐ < 5000 ppm		<u>0.63</u> ppm
Total Bromine	☐ < 2 %		<u>UNK</u> %
Total Chlorine	☐ < 35 %		<u>30.35</u> %
Total Fluorine	☐ < 1 %		<u>UNK</u> %
Total Sulfur			<u>UNK</u> %

I. OPTIONAL — RECLAMATION, FUELS, OR INCINERATION PARAMETERS Provide if information is available.

- Range
- Heat Value (BTU/lb): 700 - 2000
 - Water: 20-50
 - Viscosity (cps): _____ @ _____ °F ☐ 100°F ☐ 150°F
 - Ash: 5-20 %
 - Settleable solids: _____
 - Vapor Pressure @ STP (mm/Hg): _____
 - Is this waste a pumpable liquid? ☒ Yes ☐ No
Type of pump? dry vac
 - Can this waste be heated to improve flow? ☐ Yes ☒ No
 - Is this waste soluble in water? ☐ Yes ☒ No
 - Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? ☐ Yes ☒ No

J. TRANSPORTATION INFORMATION

- Is this a DOT Hazardous Material? ☒ Yes ☐ No
- Anticipated Annual Volume/Units: 1800 / tons
- Proper Shipping Name: Waste flammable liquid, n.o.s.
- Hazard Class: Flammable Liquid
- I.D. #: UN1993
- Additional Description: (chlorinated hydrocarbons)
- Method of Shipment: ☒ Bulk Liquid ☐ Bulk Solid ☒ Drum (Type/Size): DOT21-C / 55 gal Other: _____
- CERCLA Reportable Quantity (RQ): 1
- RQ Units (lb/kg): 1b
- USEPA Hazardous Waste? ☒ Yes ☐ No
- USEPA Hazardous Waste Number(s): F024/D001
- State Hazardous Waste? ☒ Yes ☐ No
- State Hazardous Waste Number(s): F024/D001

K. SPECIAL HANDLING INFORMATION MSDS LC-5C

☐ Additional Page(s) Attached

L. GENERATOR CERTIFICATION I hereby certify that all information submitted in this and all attached documents contains true accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

1. Gerald L. Perry Signature

2. ENVIRONMENTAL SPECIALIST Title

3. GERALD L. PERRY Name (Type or Print)

4. 9/28/88 Date

SL 021892

WASTE ANALYSIS REPORT

Environmental Laboratory
PPG Industries, Inc., Lake Charles, LA

WTS-001

Sample

- Solids & free liquids from Derivatives, NTU, North Classifier
clean-out

Location of Sample

- Drummed, North of Tank 60-8207, Tetra Area

Sample Collector

- W.H. Cooper and M.K. Huber

Sample Method/Device

- Random grab from one drum /scoop

Date of Sampling

- 8/15/88, 1340

Date All Analyses Completed - 9/19/88

Report Submitted by: F. Anne Corbe

9/27/88

ANALYSIS RESULTS

Test Parameters		Standard	Lab Log Sample Identification Number 793			
Ignitability (✓) - N/A		140 °F min	793			
Corrosivity () - N/A	pH	2 - 12.5	2.6			
	inch/yr	0.250 max				
Reactivity (✓) - N/A						
(mg/L) Total Metals () - N/A ppm	As	3.0 max	0.92			
	Ba	100.0 max	3317.			
	Ca	1.0 max	4.26			
	Cd	3.0 max	165.			
	Pb	3.0 max	14.9			
	Hg	0.2 max	1.170			
	Se	1.0 max	0.64			
	Ag	3.0 max	<1.42			
	Copper		358.			
	Nickel		345.			
	Beryllium		<0.71			
Other Parameters (if needed) () - N/A ND: None Detected	CHLORINATED HYDROCARBONS (%)					
	Chloroethane	(VC)		Free liquids	5-10%	
	Chloroethane	(DC)	0.07	PCB's	15 ppm	
	Dichloroethane	(MC12)	ND	Sodium	0.36%	
	1,1-Dichloroethane	(VDC)	ND	Heat Value	1134.9 BTU/lb	
	1,1-Dichloroethane	(DC)	ND	Chlorine	33.83%	
	1,2-Dichloroethane	(cis/trans)	ND	Water	28.22%	
	Trichloroethane	(MC13)	0.13	Density	1.412 g/ml	
	1,2-Dichloroethane	(DC)	4.14	Ash	17.36%	
	1,1,1-Trichloroethane	(MC)	ND			
	Tetrachloroethane	(CC14)	0.44			
	Trichloroethane	(Trichlor)	5.16			
	1,1,2-Trichloroethane	(TC)	2.24			
	1,1,1,2-Tetrachloroethane (unsym)		1.12			
	1,1,2,2-Tetrachloroethane (sym)		2.25			
	Tetrachloroethane	(Perchlor)	19.65			
	Pentachloroethane	(Penta)	0.73			
	Hexachloroethane	(Hexa)	0.32			
	Hexachlorobutadiene	(HCBD)	1.07			
	p,p'-Dichlorobenzene (p-DCB)		0.07			
	Unknowns		3.51			
	TOTAL CLC	%	40.89			

SL 021893

LL 793

TEST PROCEDURE

Parameter	Method Used
Ignitability ☒ N/A	☐ Pensky-Martens Closed Cup Tester ASTM Standard D-93-79 ☐ Setaflash Closed Cup Tester ASTM Standard D-3278-78 ☐ Other (specify)
Corrosivity (pH) ☐ N/A	☒ SW-846 Method 9040 pH Measurement ☐ Other (specify)
Corrosivity (inch/yr) ☒ N/A	☐ National Association of Corrosion Engineers Standard TM-01-69 ☐ Other (specify)
Reactivity ☒ 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 49 CFR 173.51, 173.53, and/or 173.88?

	Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	PPG Method Used
EP Toxicity SW-846 (Method 1310) ☐ N/A	As	7060	Ag	7761	PCBs	LD2571
	Ba	7080	CLHC	5030	CLHC	LD2562A
	Cd	7131	Sodium	3050, 6010	Heat Value	LD2562B
	Cr	7190	Free liquids	9095	Chlorine	LD2562D
	Pb	7420			Water	LD2566
TCLP* ☐ N/A	Hg	7470			Ash	LD2561
	Se	7740				

* Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Lab ratory: PPG Env. Lab ~ CORE Lab, Superior	Test Parameters Analyzed and Date
Analyst(s): F. Anne Corbello, PPG	Free liquids 8/17/88
Robert K. Perkovit, PPG	PCBs 8/23/88
Gil Ford, PPG	Sodium 9/9/88
Tommy Vizenar, PPG	CLHC, Heat Value, Cl ₂ , pH, Water, density, Ash 9/10/88
CM-KT, CORE Lab	Metals 9/19/88

cc:

SL 021894

JOYCE WILLIAMS

WASTE ANALYSIS REPORT

Environmental Laboratory
PPG Industries, Inc., Lake Charles, LA

WTS-001

Sample - Solids, Free liquids from North Classifier Clean-out
Location of Sample - Derivatives, WTV, Tricil Frac Tank, portable Storage
Sample Collector - Ronnie Louviere, Tricil Foreman
Sample Method/Device - Random grab from Tricil Supersucker discharge hose / Sample Bottle
Date of Sampling - 8/11/88
Date All Analyses Completed - 9/12/88 Report Submitted by: F. Anne Corbell
9/24/88

ANALYSIS RESULTS

Test Parameters		Standard	Lab Log Sample Identification Number 794	
Ignitability () - N/A		140 F min	794	
Corrosivity () - N/A	pH	2 - 12.5	94.8	
	inch/yr	0.250 max	3.4	
Reactivity (✓) - N/A				
EP Toxicity (mg/L) (✓) - N/A	As	5.0 max		
	Ba	100.0 max		
	Cd	1.0 max		
	Cr	5.0 max		
	Pb	5.0 max		
	Hg	0.2 max		
	Se	1.0 max		
	Ag	5.0 max		
Other Parameters (if needed) () - N/A	CHLORINATED HYDROCARBONS : %			
	Chloroethane (VC)		PCBN	16 ppm
	Chloroethane (EC)	0.04		
	Dichloroethane (MCE)		Sodium	0.89 %
	1,1-Dichloroethane (VCE)			
	1,1-Dichloroethane (DCE)		Heat Valve	1044.6 BTU/16
	1,2-Dichloroethane (cis/trans)			
	Trichloroethane (MCE)	1.04	Chlorine	26.86 %
	1,2-Dichloroethane (EDC)	7.22		
	1,1,1-Trichloroethane (MCE)		Water	44.78 %
	Tetrachloroethane (CEH)			
	Trichloroethane (Trichlor)	2.24	Density	1.206 g/ml
	1,1,2-Trichloroethane (ICE)	2.17		
	1,1,1,2-Tetrachloroethane (unsym)	0.69	Ash	8.79 %
	1,1,1,2-Tetrachloroethane (sym)	1.33		
	Tetrachloroethane (Perchlor)	9.06		
	Pentachloroethane (Penta)	0.65		
	Hexachloroethane (Hexa)	0.43		
	Hexachlorobutadiene (BCBD)	1.40		
	para-Dichlorobenzene (p-DCB)	0.05	SL 021895	
	Unknowns	6.78		
	TOTAL CLC	%	33.10	

TEST PROCEDURE

LL 724

Parameter	Method Used																																																
Ignitability ☐ N/A	☒ Pensky-Martens Closed Cup Tester*ASTM Standard D-93-79 ☐ Setaflash Closed Cup Tester ASTM Standard D-3278-78 ☐ Other (specify)																																																
Corrosivity (pH) ☐ N/A	☒ SW-846 Method 9040 pH Measurement ☐ Other (specify)																																																
Corrosivity (inch/yr) ☒ N/A	☐ National Association of Corrosion Engineers Standard TM-01-69 ☐ Other (specify)																																																
Reactivity ☒ 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 49 CFR 173.51, 173.53, and/or 173.88?																																																
EP Toxicity SW-846 (Method 1310) ☐ N/A TCLP* ☒ N/A	<table border="1"> <thead> <tr> <th>Parameter</th> <th>SW 846 Method</th> <th>Parameter</th> <th>SW 846 Method</th> <th>Parameter</th> <th>Method Used</th> </tr> </thead> <tbody> <tr> <td>As</td> <td>7060</td> <td>Ag</td> <td>7761</td> <td>PCB's</td> <td>LD2571</td> </tr> <tr> <td>Ba</td> <td>7080</td> <td>CLHC</td> <td>5030</td> <td>CLHC</td> <td>LD2562A</td> </tr> <tr> <td>Cd</td> <td>7131</td> <td></td> <td></td> <td>Heat value</td> <td>LD2562B</td> </tr> <tr> <td>Cr</td> <td>7190</td> <td></td> <td></td> <td>Chlorine</td> <td>LD2562D</td> </tr> <tr> <td>Pb</td> <td>7420</td> <td></td> <td></td> <td>Water</td> <td>LD2566</td> </tr> <tr> <td>Hg</td> <td>7470</td> <td></td> <td></td> <td>Ash</td> <td>LD2561</td> </tr> <tr> <td>Se</td> <td>7740</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	Method Used	As	7060	Ag	7761	PCB's	LD2571	Ba	7080	CLHC	5030	CLHC	LD2562A	Cd	7131			Heat value	LD2562B	Cr	7190			Chlorine	LD2562D	Pb	7420			Water	LD2566	Hg	7470			Ash	LD2561	Se	7740				
Parameter	SW 846 Method	Parameter	SW 846 Method	Parameter	Method Used																																												
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Se	7740																																																

* Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: <u>APG Env. Lab Lake Charles</u>	Test Parameters Analyzed and Date
Analyst(s): <u>Tommy Vizeau</u>	<u>CLHC, Heat Value, Cl₂, pH, Water, Density, Ash 9/12/88</u>
<u>E. Anne Corbello</u>	<u>Flash Point 9/19/88</u>
<u>Robert K. Pertuit</u>	<u>PCBW 8/23/88</u>
<u>Gil Furd</u>	<u>Sodium 9/9/88</u>

SL 021896

Environmental Laboratory
PPG Industries, Inc., Lake Charles, LA

WTS-001

Sample - Solids & free liquids from Derivatives, WTV, North Classifier
clean-out
Location of Sample - 2 Drummed, North of Tank 60-8207, Tetra Area
Sample Collector - W.H. Cooper and M.K. Huber
Sample Method/Device - Random grab from one drum /scoop
Date of Sampling - 8/15/88, 1340
Date All Analyses Completed - 9/19/88 Report Submitted by: F. Anne Corbello
9/27/88

ANALYSIS RESULTS

Test Parameters		Standard	Lab Log Sample Identification Number 793	
Ignitability (✓) - N/A		140 °F min	793	
Corrosivity () - N/A	pH	2 - 12.5	2.6	
	inch/yr	0.250 max		
Reactivity (✓) - N/A				
(mg/L) Total Metals () - N/A ppm	As	5.0 max	0.92	
	Ba	100.0 max	3317.	
	Ca	1.0 max	4.26	
	Cd	5.0 max	165.	
	Pb	5.0 max	14.9	
	Hg	0.2 max	1.170	
	Se	1.0 max	0.64	
	Ag	5.0 max	<1.42	
	Copper		358.	
	Nickel		345.	
Other Parameters (if needed) () - N/A ND: None Detected	Beryllium		<0.71	
	CHLORINATED HYDROCARBONS () %			
	Chloroethane	(VC)		Free Liquids 5-10 %
	Chloroethane	(EC)	0.07	PCB 15 ppm
	Dichloromethane	(MC12)	ND	Sodium 0.36 %
	1,1-Dichloroethane	(VDC)	ND	Heat Value 1134.9 BTU/lb
	1,1-Dichloroethane	(DCE)	ND	Chlorine 33.83 %
	1,2-Dichloroethane	(cis/trans)	ND	Water 28.22 %
	Trichloromethane	(CC13)	0.13	Density 1.412 g/ml
	1,2-Dichloroethane	(EDC)	4.14	Ash 17.36 %
	1,1,1-Trichloroethane	(MC)	ND	
	Tetrachloromethane	(CC14)	0.44	
	Trichloroethane	(Trichlor)	5.16	
	1,1,2-Trichloroethane	(TCE)	2.24	
	1,1,1,2-Tetrachloroethane	(unsym)	1.12	
	1,1,1,2-Tetrachloroethane	(sym)	2.25	
	Tetrachloroethane	(Perchlor)	19.65	
	Pentachloroethane	(Penta)	0.73	
	Hexachloroethane	(Hexa)	0.32	
	Hexachlorobutadiene	(HCBD)	1.07	
	para-Dichlorobenzene (p-DCB)		0.07	
	unknowns		3.51	SL 021897
	TOTAL CLHC	%	40.89	

LL 793

TEST PROCEDURE

Parameter	Method Used																																									
Ignitability ☒ N/A	☐ Pensky-Martens Closed Cup Tester ASTM Standard D-93-79 ☐ Setaflash Closed Cup Tester ASTM Standard D-3278-78 ☐ Other (specify)																																									
Corrosivity (pH) ☐ N/A	☒ SW-846 Method 9040 pH Measurement ☐ Other (specify)																																									
Corrosivity (inch/yr) ☒ N/A	☐ National Association of Corrosion Engineers Standard TM-01-69 ☐ Other (specify)																																									
Reactivity ☒ 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 49 CFR 173.51, 173.53, and/or 173.88?																																									
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	Se 7740																																									

* Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Env. Lab - CORE Lab, Sulphur	Test Parameters Analyzed and Date
Analyst(s): F. Anne Corbello, PPG	Free Liquids 8/17/88
Robert K. Pertuit, PPG	PCBs 8/23/88
Gil Ford, PPG	Sodium 9/9/88
Tommy Vizenar, PPG	CLHC, Heat Value, Cl, pH, Water, density, Ash 9/12/88
CM-KT, CORE Lab	Metals 9/19/88

c

SL 021898

WASTE ANALYSIS REPORT

Environmental Laboratory
PPG Industries, Inc., Lake Charles, LA

WTS-001

Sample - Solids & Sludge from South Classifier, SW Sump Area plug
Location of Sample - ^{clean-out} Derivatives, WTU, Classifier
Sample Collector - Joyce Williams
Sample Method/Device - Random grab /scoop
Date of Sampling - 7/13/88, 1215
Date All Analyses Completed - 7/15/88 Report Submitted by: F. Anne Corbello
9/21/88

ANALYSIS RESULTS

Test Parameters		Standard	Lab Log Sample Identification Number 771			
Ignitability (✓) - N/A		140 F min	771			
Corrosivity () - N/A	pH	2 - 12.5	3.6			
	inch/yr	0.250 max				
Reactivity (✓) - N/A						
EP Toxicity (mg/L) (✓) - N/A	As	5.0 max				
	Ba	100.0 max				
	Cd	1.0 max				
	Cr	5.0 max				
	Pb	5.0 max				
	Hg	0.2 max				
	Se	1.0 max				
	Ag	5.0 max				
Other Parameters (if needed) () - N/A NO: NONE Detected	CHLORINATED HYDROCARBONS %					
	Chloroethane	(VC)				
	Chloroethane	(EC)	ND			
	Dichloromethane	(MCL2)	ND			
	1,1-Dichloroethane	(VDC)	ND			
	1,1-Dichloroethane	(DCB)	ND			
	1,2-Dichloroethane	(cis/trans)	ND			
	Trichloromethane	(CHC13)	0.05			
	1,2-Dichloroethane	(EDC)	ND			
	1,1,1-Trichloroethane	(MC)	ND			
	Tetrachloromethane	(CCl4)	0.18			
	Trichloroethane	(Trichlor)	0.64			
	1,1,2-Trichloroethane	(TCE)	1.28			
	1,1,1,2-Tetrachloroethane (unsym)		0.19			
	1,1,2,2-Tetrachloroethane (sym)		0.42			
	Tetrachloroethane	(Perchlor)	1.46			
	Pentachloroethane	(Penta)	0.12			
	Hexachloroethane	(Hexa)	0.27			
	Hexachlorobutadiene	(HCBD)	1.27			
	para-Dichlorobenzene (p-DCB)		0.01			
	UNKNOWN		7.75			
TOTAL CLBC %			12.65			

SL 021899

LL 771

TEST PROCEDURE

Parameter	Method Used																																									
Ignitability ☒ N/A	☐ Pensky-Martens Closed Cup Tester ASTM Standard D-93-79 ☐ Setaflash Closed Cup Tester ASTM Standard D-3278-78 ☐ Other (specify)																																									
Corrosivity (pH) ☐ N/A	☒ SW-846 Method 9040 pH Measurement ☐ Other (specify)																																									
Corrosivity (inch/yr) ☒ N/A	☐ National Association of Corrosion Engineers Standard TM-01-69 ☐ Other (specify)																																									
Reactivity ☒ 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 49 CFR 173.51, 173.53, and/or 173.88?																																									
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* Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Env. Lab Lake Charles	Test Parameters Analyzed and Date
Analyst(s): Tommy Vizena	CLHC, Heat Value, Cl ₂ , pH, Water, Density, Ash 7/15/88

cc:

SL 021900

WASTE ANALYSIS REPORT

Environmental Laboratory
PPG Industries, Inc., Lake Charles, LA

WTS-001

Sample - Solids, Free liquids from North Classifier Clean-out
Location of Sample - Derivatives, WTV, Tricil FRAC Tank, portable Storage
Sample Collector - Ronnie Louviere, Tricil Foreman
Sample Method/Device - Random grab from Tricil Supersucker discharge hose / Sample Bottle
Date of Sampling - 8/11/88
Date All Analyses Completed - 9/12/88 Report Submitted by: F. Anne Corbello
9/24/88

ANALYSIS RESULTS

Test Parameters		Standard	Lab Log Sample Identification Number 794	
Ignitability () - N/A		140 F min	794	
Corrosivity () - N/A	pH	2 - 12.5	84.8	
	inch/yr	0.250 max	3.4	
Reactivity (✓) - N/A				
EP Toxicity (mg/L) (✓) - N/A	As	5.0 max		
	Ba	100.0 max		
	Cd	1.0 max		
	Cr	5.0 max		
	Pb	5.0 max		
	Hg	0.2 max		
	Se	1.0 max		
	Ag	5.0 max		
Other Parameters (if needed) () - N/A	CHLORINATED HYDROCARBONS : %			
	Chloroethane (VC)		PCBA	16 ppm
	Chloroethane (EC)	0.04		
	Dichloromethane (MC12)		Sodium	0.89 %
	1,1-Dichloroethane (VDC)			
	1,1-Dichloroethane (DCR)		Heat Value	1044.6 BTU/lb
	1,2-Dichloroethane (cis/trans)			
	Trichloromethane (CHCl3)	1.04	Chlorine	26.86 %
	1,2-Dichloroethane (EDC)	7.22		
	1,1,1-Trichloroethane (MC)		Water	44.78 %
	Tetrachloromethane (CCl4)			
	Trichloroethane (Trichlor)	2.24	Density	1.206 g/ml
	1,1,2-Trichloroethane (TCE)	2.17		
	1,1,1,2-Tetrachloroethane (unsym)	0.69	Ash	8.79 %
	1,1,2,2-Tetrachloroethane (sym)	1.33		
	Tetrachloroethane (Perchlor)	9.06		
	Pentachloroethane (Penta)	0.65		
	Hexachloroethane (Hexa)	0.43		
	Hexachlorobutadiene (HCBD)	1.40		
	para-Dichlorobenzene (p-DCA)	0.05		
	UNKnowns	6.78	SL 021901	
TOTAL CLEC		% 33.10		

LL 794

TEST PROCEDURE

Parameter	Method Used																																																
Ignitability ☐ N/A	☒ Pensky-Martens Closed Cup Tester ASTM Standard D-93-79 ☐ Setaflash Closed Cup Tester ASTM Standard D-3278-78 ☐ Other (specify)																																																
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☒ N/A	Se 7740																																																

* Toxicity Characteristic Leaching Procedure

LABORATORY IDENTIFICATION

Laboratory: PPG Env. Lab. Lake Charles	Test Parameters Analyzed and Date
Analyst(s): Tommy Vizer	CLHC, Heat Value, Cl ₂ , pH, Water, Density, Ash 9/12/88
F. Anne Carbella	Flash Point 8/19/88
Robert K. Pertuit	PCBW 8/23/88
Gil Ford	Sodium 9/9/88

From: American Laboratories and
Research Services, Inc.
P.O. Box 15609
Hattiesburg, MS 39402-5609
601-264-9320

Date: February 6, 1991

To: Mr. Gerald L. Perry
PPG Industries
Chemicals Division
P. O. Box 1000
Lake Charles, LA 70602

The following analytical results have been obtained for the
indicated sample which was submitted to this laboratory:

Sample I.D. AA07095

Sample location: 1002GP

LabLog 1520 Classifier Solids

Collected by: GPP

Collection date: 01/31/91 Time: 9:15

Laboratory submittal date: 01/31/91 Time: 15:57

Received by: RLH

Validated by: RLH

Parameter: TCLP Extraction
Method reference: SW846-1311
Result: done
Date started: 02/01/91
Time started: 16:00

Date finished: 02/02/91
Analyst: BLM

Parameter: Mercury, TCLP
Method reference: SW846-7470
Result: .009 mg/L
Date started: 02/05/91
Time started: 08:30

MDL or sensitivity: .005
Date finished: 02/05/91
Analyst: BLM

Parameter: Mercury, Total
Method reference: SW846-7470
Result: 1.25 mg/L
Date started: 02/05/91
Time started: 08:30

MDL or sensitivity: .005
Date finished: 02/05/91
Analyst: BLM

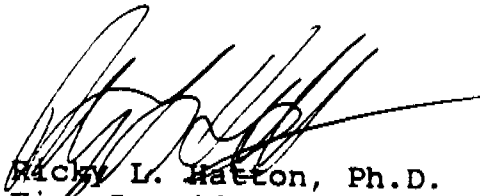
SL 021902A

Mr. Gerald L. Perry
Page: 2
February 6, 1991

Sample I.D. AA0,095 (continued)

Comments:
Refernece Lab Report No. R1905.

If there are any questions regarding this data, please call.

Reviewed by:  Ricky L. Hatton, Ph.D.
Vice President

SL 021903

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK OR TYPE (Elite, 12-pitch).

RECERTIFICATION

SUBMITTED TO WASTE TECH SERVICES
DATE: November 29, 1990

WTS -001

Waste Profile Sheet Code

A. GENERAL INFORMATION

1. Generator Name: PPG Industries, Inc. 2. Generator USEPA ID: LAD 008086506
3. Facility Address: P. O. Box 1000 4. Generator State ID: Same
Lake Charles, LA
(Columbia Southern Road)
5. Zip Code: 70602
6. Technical Contact: Gerald L. Perry 7. Title: Env. Control Spec. 8. Phone: (318) 491-4370

B. MAIL WASTE TECH SERVICES

INVOICES TO 1. ☒ Generating Facility (A, above), or

2. Company Name: 3. Phone: () - -
4. Address: 5. Zip Code:

C. 1. NAME OF WASTE Classifier/WTU Separator Sludge
2. PROCESS GENERATING WASTE Derivatives Waste Treatment Unit
3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, DO NOT COMPLETE this form.

D. PHYSICAL CHARACTERISTICS OF WASTE

1. Color: Black 2. Does the waste have a strong incidental odor? ☐ No ☒ Yes If known, describe: 3. Physical State @ 70°F: ☐ Solid ☒ Semi-Solid ☐ Liquid ☐ Powder Other: Sludge 4. Layers: ☐ Multilayered ☒ Bi-layered ☐ Single Phased 5. Specific Gravity: Range: 1.2 - 1.4 6. Free Liquids: ☒ Yes ☐ No Volume: 7. pH: ☐ ≤ 2 ☒ > 2-4 ☐ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range - ☐ NA 8. Liquid Flash Point: ☐ < 73°F ☒ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

	RANGE	
	MIN. - MAX.	
1. Water	20 - 50	%
Ash	5 - 25	%
Chlorinated Hydrocarbons	20 - 50	%
		%
		%
		%
		%
		%
		%
		%
		%

Please note. The chemical composition total in the maximum column must be greater than or equal to 100%.

TOTAL: 125 %

2. Indicate if this waste contains any of the following:

	NONE or LESS THAN or ACTUAL	
PCB's	☒ < 50 ppm	ppm
Cyanides	☐ < 50 ppm	ppm
Phenolics	☐ < 50 ppm	ppm
Sulfides	☐ < 50 ppm	ppm

SL 021904

F. METALS Indicate if this waste contains any of the following:

	1. ☒ DETOX/TCLP or 2. ☐ Total	
METAL	LESS THAN or ACTUAL	(Parts Per Million)
Arsenic	☒ < 5 ☐ < 500	
Barium	☒ < 100	
Cadmium	☒ < 1 ☐ < 100	
Chromium	☒ < 5	
Lead	☒ < 5 ☐ < 500	
Mercury	☐ < 0.2 ☐ < 20	0.3
Selenium	☒ < 1 ☐ < 100	
Silver	☐ < 5	
Chromium-Hex	☒ < 5 ☐ < 500	
Copper	☐ < 5	UNK
Nickel	☐ < 5 ☒ < 134	
Thallium	☒ < 5 ☐ < 130	
Zinc	☐ < 5	

GENERATOR'S WASTE MATERIAL PROFILE SHEET

PLEASE PRINT IN INK R TYPE (EItts, 12-pitch).

SUBMITTED TO WASTE TECH SERVICES
DATE: July 25, 1991

WTS - 001

Waste Profile Sheet C de

A. GENERAL INFORMATION

1. Generator Name: PPG Industries, Inc. 2. Generator USEPA ID: LAD 008086506
3. Facility Address: P. O. Box 1000 4. Generator State ID: Same
Lake Charles, LA
(Columbia Southern Road) 5. Zip Code: 70602
6. Technical Contact: William H. cooper 7. Title: Env. Control Spec. 8. Phone: (318) 491 4256

B. MAIL WASTE TECH SERVICES

INVOICES TO 1. ☒ Generating Facility (A, above), or

2. Company Name: _____ 3. Phone: () - _____
4. Address: _____
_____ 5. Zip Code: _____

C. 1. NAME OF WASTE Classifier/WTU Separator Sludge
2. PROCESS GENERATING WASTE Production of Chlorinated Hydrocarbon Waste Recovery Unit
3. Is this waste a Dioxin listed waste as defined in 40 CFR 261.31 (e.g., F020, F021, F022, F023, F026, F027, or F028)?
☐ Yes ☒ No If yes, DO NOT COMPLETE this form.

D. PHYSICAL CHARACTERISTICS OF WASTE

Color: <u>Black</u>	2. Does the waste have a strong incidental odor? ☐ No ☒ Yes If known, describe: _____	3. Physical State @ 70°F: ☐ Solid ☒ Semi-Solid ☐ Liquid ☐ Powder Other: _____	4. Layers: ☐ Multilayered ☒ Bi-layered ☐ Single Phased	5. Specific Gravity: Range: <u>1.2 - 1.4</u>	6. Free Liquids: ☒ Yes ☐ No Volume: <u>8-15</u> %
------------------------	---	---	---	---	--

7. pH: ☐ ≤ 2 ☒ > 2-4 ☐ 4-7 ☐ 7 ☐ 7-10 ☐ 10- < 12.5 ☐ ≥ 12.5 ☐ Range _____ ☐ NA

8. Liquid Flash Point: ☐ < 73°F ☒ 73-99°F ☐ 100-139°F ☐ 140-199°F ☐ ≥ 200°F ☐ None ☐ Closed Cup ☐ Open Cup

E. CHEMICAL COMPOSITION

	RANGE	MIN.	MAX.	%
1. Water		30	50	%
Ash		5	15	%
Chlorinated Hydrocarbons		30	50	%
				%
				%
				%
				%
				%
				%
				%
				%
				%

Please note: The chemical composition total in the maximum column must be greater than or equal to 100%. TOTAL: 115 %

2. Indicate if this waste contains any of the following:

	N	NE	or	LESS THAN	or	ACTUAL
PCB's	☐	☐	<	50 ppm		<u>11</u> ppm
Cyanides	☐	☐	<	50 ppm		ppm
Phenolics	☐	☐	<	50 ppm		ppm
Sulfides	☐	☐	<	50 ppm		ppm

F. METALS Indicate if this waste contains any of the following:

1. ☐ EP TOX/TCLP	or	2. ☒ Total	METAL	LESS THAN	or	ACTUAL	
				(Parts Per Million)			
☒	<	5	Arsenic	☐	<	500	<u>0.92</u>
☐	<	100	Barium	☐	<		<u>3317</u>
☐	<	1	Cadmium	☒	<	100	<u>4.26</u>
☐	<	5	Chromium	☐	<		<u>165</u>
☐	<	5	Lead	☒	<	500	<u>14.9</u>
☐	<	0.2	Mercury	☒	<	20	<u>1.170</u>
☒	<	1	Selenium	☐	<	100	<u>0.64</u>
☒	<	5	Silver	☐	<		<u><1.42</u>
☐	<	5	Chromium-Hex	☐	<	500	<u>UNK</u>
☐	<	5	Copper	☐	<		<u>358</u>
☐	<	5	Nickel	☐	<	134	<u>345</u>
☐	<	5	Thallium	☐	<	130	<u>UNK</u>
☐	<	5	Zinc	☐	<		<u>UNK</u>

SL 021905

GENERATOR'S WASTE MATERIAL PROFILE - IEST (Continued)

WTS-001

Waste Profile Sheet Code

G. OTHER HAZARDOUS CHARACTERISTICS

1. Is this waste a listed solvent waste as defined by 40 CFR 261.31 (F001, F002, F003, F004, or F005)? ☐ Yes ☒ No
2. Does this waste contain greater than 1000 ppm total halogenated organic compounds? ☒ Yes ☐ No
3. Indicate if this waste is any of the following:

☐ RCRA Reactive	☐ Radioactive
☐ Water Reactive	☐ Etiological
☐ Explosive	☐ Pesticide Manufacturing Waste
☐ Shock Sensitive	☐ Other _____
☐ Pyrophoric	☒ None of the above

H. COMPLETE ONLY FOR WASTES INTENDED FOR FUELS or INCINERATION

	LESS THAN	or	ACTUAL
Beryllium	☐ < 5000 ppm		_____ ppm
Potassium	☐ < 5000 ppm		_____ ppm
Sodium	☒ < 5000 ppm		.21 ppm
Total Bromine	☐ < 2 %		_____ %
Total Chlorine	☒ < 35 %		15.9% %
Total Fluorine	☐ < 1 %		_____ %
Total Sulfur			_____ %

I. OPTIONAL - RECLAMATION, FUELS, OR INCINERATION PARAMETERS Provide if information is available.

1. Heat Value (BTU/lb): 600 - 2200 Range
2. Water: 20-50 %
3. Viscosity (cps): _____ @ ☐ _____ °F ☐ 100°F ☐ 150°F
4. Ash: 5-15 %
5. Settleable solids: _____ %
6. Vapor Pressure @ STP (mm/Hg): _____
7. Is this waste a pumpable liquid? ☒ Yes ☐ No
Type of pump? dry-VAC
8. Can this waste be heated to improve flow? ☐ Yes ☒ No
9. Is this waste soluble in water? ☐ Yes ☒ No
10. Particle size: Will the solid portion of this waste pass through a 1/8 inch screen? ☐ Yes ☒ No

J. TRANSPORTATION INFORMATION

1. Is this a DOT Hazardous Material? ☒ Yes ☐ No
2. Anticipated Annual Volume/Units: 1800 tons / year
3. Proper Shipping Name: Waste Flammable liquid, n.o.s.
4. Hazard Class: Flammable liquid
5. I.D. #: UN1993
6. Additional Description: (chlorinated hydrocarbons)
7. Method of Shipment: ☒ Bulk Liquid ☐ Bulk Solid ☒ Drum (Type/Size): 55 gal / DOT-21-C Other: _____
8. CERCLA Reportable Quantity (RQ): 1
9. RQ Units (lb/kg): 1b
10. USEPA Hazardous Waste? ☒ Yes ☐ No
11. USEPA Hazardous Waste Number(s): F024 D001
12. State Hazardous Waste? ☒ Yes ☐ No
13. State Hazardous Waste Number(s): F024 D001

K. SPECIAL HANDLING INFORMATION

MSDS LC-5C

☐ Additional Page(s) Attached

L. GENERATOR CERTIFICATION I hereby certify that all information submitted in this and all attached documents contains true and accurate descriptions of this waste material, and all relevant information regarding known or suspected hazards in the possession of the generator has been disclosed.

1. William H. Cooper
Signature
William H. Cooper
2. Environmental Control Spec.
Title
July 24, 1991
3. _____
Name (Type or Print)
4. _____
Date

SL 021906