

7/18 PPN



ISO 9001
21057 SOLID WASTE
BY 24 1983

LABORATORY SERVICE REQUEST

RECEIVED

DATE	4/5/83	INITIATOR	J. Jan	LOCATION	L.C. LA.
REQUEST No.	21057	CUSTOMER	PPN	LOCATION	Same
TECHNICAL CONTACT	Andy Pluche	PHONE NUMBER	318-494-4831		
ACTION REQUESTED Disposal Rec.					

WASTE DISPOSAL

TYPE OF MATERIAL SUBMITTED	Aluminum Oxide	VOLUME AND FREQUENCY	40 cubic yds / yr
PHYSICAL STATE	Solid	PROCESS INVOLVED	Plant Air drying + sandblasting
GENERAL CHEMICAL ANALYSIS	(Activated Alumina)		
Air Dryer	Aluminum Oxide	80-100%	
Dessicant	(Dessicant)		
#21057	Saws	Remainder	
TOXICITY DATA	STABILITY DATA		
PRESENT METHOD OF DISPOSAL	COST OF DISPOSAL		
REGULATORY AGENCY INVOLVED	AGENCY REPRESENTATIVE		

CHEMICAL CLEANING

EQUIPMENT TO BE CLEANED	METALLURGY	VOLUME
DESCRIPTION OF PROBLEM		

PROPOSED METHOD OF CLEANING		BULK-CHEM COMPETITIVE PRODUCT EVALUATION	
Circulation		Product Name	
Fill and Soak		Manufacturer	
Cascade		Cost per lb. or gal.	
Vat Soak		How is Product Used	
Spray			
On Stream		Volume Usage	
Hydroblast		Other Information	
Other (Explain)		Laboratory Recommendation	
Is Heat Available?			

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APR 18 1983

LABORATORY RECOMMENDATION

See attached

SL 045808

DATE:	5/16/83	SIGNED:	Daneel Hunt
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WASTE CHARACTERIZATION DATA

General Directions: In order for us to determine whether we can lawfully and safely transport, treat, and dispose of your waste material, we must obtain certain information about the chemical and physical properties of the waste and its chemical composition. Please be complete in your answers; if your response is "none" or "not available", so indicate. Answers must be printed in ink or typewritten and the completed form must be signed. Please make a copy of this form for your records. PLEASE PRESS HARD, THIS IS A FIVE PART NCR FORM.

- (1.) Generator Name: PPG Industries, Inc. Date April 5, 1983
- (2.) Generating Facility Complete Address
PPG Industries, Inc. P.O. Box 1000, Lake Charles, La. 70602
- (3.) Authorized Company Representative: Andy P. Plausche Title: Plant Environmental Foreman
- (4.) Phone Number: (318) 491-4814
- (5.) Emergency Contact Andy P. Plausche Title P.H. Env. Foreman Phone Number: (318) 491-4814
- (6.) General Description of The Waste: Spent Aluminum Oxide (Dessicant) (Activated Alumina)
- (7.) Process Generating Waste: Plant Air Drying and sand blasting
- (8.) Anticipated volume: 40 [] Gallons [] Tons [☒] Cubic Yards [] Drums, or [] Other
Per: [] Day [] Week [] Month [☒] Year, or [] Other
- (9.) Waste Properties:
- (a.) Vapor pressure (in mm of Hg @ 25°C) N/A
- (b.) Flash Point N/A [] °F [] °C [] Closed Cup [] Open Cup
- (c.) Phases/layers: [☒] Single [] Bilayered [] Multilayer
- (d.) Physical State @ 20 °C: [☒] Solid [] Liquid [] Semi-Solid [] Powder [] Other
- (e.) Solubility (g/100g H₂O) @ 20 °C: N/A (f.) pH 6-9
- (g.) Density: 30 [] lb./ft.³ [] lb./yd.³ [☒] lb./gal. [] g/cc
- (h.) Odor: [] Strong [] Mild [☒] None
- (i.) Reactivity:
- Hydrophoric [] Yes [☒] No Autopolymerizable [] Yes [☒] No Shock Sensitive [] Yes [☒] No
Pyrophoric [] Yes [☒] No Thermally Sensitive [] Yes [☒] No Explosive [] Yes [☒] No

- (10.) Complete waste composition (with ranges - indicate % or ppm.) Attach Additional Pages if Necessary

ORGANIC

INORGANIC
(Activated Alumina)
Aluminum Oxide
(Dessicant)
Sand 80-100%
Remainder

- (11.) Sample Included [☒]

- (12.) Manifest Information

Proper USDOT Shipping Name

USDOT Hazard Class

UN or NA No.

USEPA Haz. Code

USEPA Haz. Waste No. (Type)

N/A

N/A

[] [] [] [] [] []

[] [] [] [] [] []

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- (13.) This waste contains:
- Biological Materials [] Yes [☒] No Pathogens [] Yes [☒] No Etiological Agents [] Yes [☒] No
Radioactive Materials [] Yes [☒] No PCB's [] Yes [☒] No Dioxin [] Yes [☒] No
If yes, specify type (if applicable) and concentration

- (14.) Have you obtained toxicity studies of this waste material? yes If so, please attach a copy of the results. APR 18 1983
- (15.) Required personnel protective equipment & procedures. None

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omissions of composition or properties exists, and that all known or suspected hazards have been disclosed.

Generator's Authorized Signatory

Andy P. Plausche Title Plant Env. Foreman Date April 5/1983

Confidentiality Agreement: As consideration for the Generator's release of the above information and any other supplemental data, the undersigned agrees to treat such information as confidential property and will not disclose such information to others except as is required by law, and in such circumstances only after first giving notice to the Generator.

By [Signature] Name BFI Representative Title Operations SL 045809

BFI Houston Lab Distributes:

DISPOSAL SITE - white conv TRANSPORTATION - green conv LAB - pink conv REGIONAL OFFICE - yellow conv SALES OFFICE - gold conv



BROWNING-FERRIS INDUSTRIES
HOUSTON LABORATORY

Date 5/16/83

PRETREATMENT AND DISPOSAL RECOMMENDATION

BFI 21057 Source PPG Ind. Inc. - Lake Charles, LA.

1. Sample Description: Liquid ☐ Sludge ☐ Solid wet Mix ☐ Color dark brown
Number of Phases (% v/v of each) ☐ Odor mild
pH ☐ Density 109.2 (~~107.2~~) (lb/cu. ft.) Flash Point ☐ °F Total Solids ☐ % w/w Ash ☐ % w/w

Safety Precautions:

Avoid Breathing Vapors Dust ☐ Avoid Skin and Eye Contact ☐

Toxicity: ☐

2. Pretreatment:

☐ A. Phase Separation ☐ B. pH Adjustment ☐ C. Oxidation/Reduction ☐ D. Other ☐

Comments: ☐

3. Disposal Recommendation:

☐ A. Solidification: Volume percent of Original Waste ☐

1. Kiln Dust ☐ Fly Ash ☐ Other ☐

a. Ratio of Absorbent to Waste ☐ w/w c. Volume Increase ☐ times original

b. Reaction upon Mixing ☐ d. Final Disposal: See attached leachate data ☐

(1) Sanitary ☐ (2) Secure ☐

2. Liq-Wa-Con™ ☐

a. Reagent Ratio ☐ c. Volume Increase ☐ times original

b. Reaction upon mixing ☐ d. Final Disposal: See attached leachate data ☐

(1) Sanitary ☐ (2) Secure ☐

☐ B. Deep Well Disposal: Volume percent of Original Waste ☐

1. Calcasieu ☐ 2. Chaparral ☐ 3. Other ☐ See attached Deep Well Analysis ☐

☐ C. Incineration: Volume percent of Original Waste ☐

☒ D. Direct Landfill Burial: Volume percent of Original Waste 100%

(1) Sanitary ☒ (2) Secure ☐ See Attached Analysis ☒

☐ E. Other ☐

Comments pH (5% wt. slurry) 6.0

Disposal in a sanitary landfill is contingent upon written notification to the regulatory agency involved and upon written approval from the BFI Corporate Vice President, Landfill Operations.

cc: Mike Lawlor
Gene Sheperd

SL 045810

The above is a recommendation of the BFI Houston Laboratory Group. It must be understood that local regulations (if more stringent) regarding disposal of specific wastes takes precedence over the laboratory's recommendations.

Daniel W. Heintz
Daniel W. Heintz



BROWNING-FERRIS INDUSTRIES
HOUSTON LABORATORY

ANALYTICAL REPORT

BFI NO. 21057

Date: 5/16/83

RE: PPG - Lake Charles, LA.

ANALYSIS

USEPA

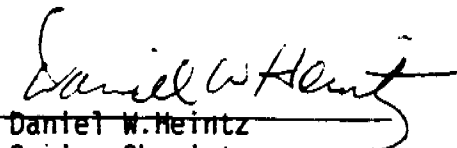
TOXICANT EXTRACTION PROCEDURE

	<u>BFI NO.</u> <u>21057</u>	<u>Maximum Allowable</u> <u>Concentration</u>
Arsenic, mg/l	<0.020	5.0
Barium, mg/l	<0.5	100.0
Cadmium, mg/l	<0.010	1.0
Chromium, mg/l	<0.1	5.0
Lead, mg/l	<0.2	5.0
Mercury, mg/l	<0.0005	0.2
Selenium, mg/l	<0.020	1.0
Silver, mg/l	<0.10	5.0
Endrin, mg/l	*	0.02
Lindane, mg/l	*	0.4
Methoxychlor, mg/l	*	10.0
Toxaphene, mg/l	*	0.5
2,4-D, mg/l	*	10.0
2,4,5-TP Silvex, mg/l	*	1.0

40 CFR 261.24

*Analysis to follow.

BFI HOUSTON LAB GROUP


Daniel W. Heintz
Senior Chemist

TMM/pc

SL 045811



ANALYTICAL REPORT

BFI NO. 21057

RE: PPG Ind. Inc. - Lake Charles, LA.

Date: 5/16/83

Test Performed

Test Procedure

X

Characteristic of Ignitability as per 40 CFR 261.21.
Results: negative

X

Reaction when mixed with water.
Results: none detected

X

Reaction when mixed with a 10% (vol) solution of HCl.
Results: none detected

X

Reaction when mixed with a 10% (vol) solution of NaOH.
Results: none detected

X

Reaction when exposed to air.
Results: none detected

Reaction when mixed with oil/solvent.
Results: _____

X

Characteristic of Reactivity as per 40 CFR 261.23.
Results: negative for cyanide and sulfide

This data is the product of the evaluation of BFI 21057 reported to be a representative sample of the waste material described on the BFI Waste Characterization Data Sheet assigned the BFI Waste Code LA/280/051683/21052. The attached waste disposal recommendation is based upon a review of the information provided by the generator and an assessment of the referenced sample. This recommendation is contingent upon receipt at the disposal facility of waste material essentially equivalent in chemical and physical properties to that defined by the above mentioned waste stream.

SL 045812

BFI HOUSTON LAB GROUP

Daniel W. Heintz
Daniel W. Heintz
Senior Chemist