

WASTE EVALUATION REQUEST

BFI to complete this area.

BFI Initiator _____
Location _____
Company Number _____ Date _____
Telephone Number () _____
Action Requested: ☐ New Waste Approval
☐ Up-Date Approval ☐ Priority
☐ Other _____

Previous Laboratory Number _____
Disposal Method Requested _____
Disposal Site Requested _____
Company Number _____ P.O. Number _____
Analyses Requested: ☐ TEP ☐ RCI
☐ Other _____
Analyses To Follow: ☐ TEP ☐ Other _____

WASTE CHARACTERIZATION DATA

Special Waste

IMPORTANT: THIS FORM IS TO BE COMPLETED BY A REPRESENTATIVE OF THE WASTE GENERATOR. PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS FORM. THIS FORM IS TO BE USED ONLY ONE TIME, AND MUST BE TYPEWRITTEN OR LEGIBLY PRINTED IN INK, AND SIGNED.

1. GENERATOR INFORMATION

a) Generator's Name: Spaulding Composites Co., Inc.
b) Generating Facility Address: 310 Wheeler Street
City: Tonawanda State: NY Zip: 14150
c) Company Representative: Gregory A. Stubbs
Title: Manager, Environmental Affairs
d) Emergency Contact: Gregory A. Stubbs
Title: Manager, Environmental Affairs

e) Local Registration No. _____
Generator's EPA Id. No. NYD002104404
f) Telephone No. (716) 692-2000
After Hours No. (716) 692-2004
Emergency No. (716) 692-2000

2. GENERAL WASTE STREAM INFORMATION

a) Description of The Waste: Prepeg (B-Stage) Scrap
b) Process Generating Waste: Trimming of resin impregnated substrates (prepeg B-Stage)
c) Is this a "Hazardous Waste" as defined by State or local Regulations? ☐ Yes ☒ No
If yes, enter the Waste Identification Number if one has been assigned: _____
d) Is this a "Special Waste", an "Industrial Process Waste", or a "Pollution Control Waste" as defined by State or local Regulations?
☒ Yes ☐ No If yes, enter Waste Identification Number: _____
e) Recommended personal protective equipment and special handling procedures: _____
f) Anticipated Volume: 60 ☐ Gallons ☒ Tons ☐ Cubic Yards ☐ Other _____
Per: ☐ Day ☐ Week ☐ Month ☒ Year, or ☐ Other _____
To be transported in: ☒ Bulk ☐ Drums (type/size) 30 yd container ☐ Other _____
g) Is a representative sample included? ☒ Yes ☐ No - If yes, complete the RSC found on the reverse side.

3. WASTE PROPERTIES @ 72°F

a) Physical State:
☒ Solid ☐ Semi-solid
☐ Powder ☐ Liquid
☐ Combination _____
b) Odor:
Describe sweet phenolic
☐ None ☒ Mild ☐ Strong
c) Flash Point, °F:
☐ ≤72 ☐ 73-100 ☐ 101-140
☐ 141-200 ☐ ≥201 ☒ N/A ☐ N/D

d) Layers:
☒ Single Phase ☐ Bi-layered ☐ Multi-layered
e) Density Range: 1.2 to 1.4
☐ N/D ☐ lbs./gal. ☒ g./cc.
☐ lbs./yd.³ ☐ Other _____
f) Color(s):
Describe Variable: Amber, Brown, Black
g) pH:
☐ ≤2.0 ☐ 2.1-5.0 ☐ 5.1-9.0
☐ 9.1-12.4 ☐ ≥12.5 ☒ N/A ☐ N/D

4. REACTIVITY

Note if the waste exhibits any of the following reactive properties: ☐ Water Reactive ☐ Alkaline Reactive ☐ Pyrophoric ☐ Thermally Sensitive
☐ Acid Reactive ☐ Autopolymerizable ☐ Explosive ☐ Shock Sensitive ☒ None of the above

5. THIS WASTE CONTAINS

Note if the waste contains any of the following:

- | | | | |
|---------------------------------------|---|---|--|
| <input type="checkbox"/> Free Liquids | <input type="checkbox"/> Dioxins | <input type="checkbox"/> Etiological Agents | <input type="checkbox"/> Radioactive Materials |
| <input type="checkbox"/> Free Cyanide | <input type="checkbox"/> Organic Solvents | <input type="checkbox"/> Pathogens | <input type="checkbox"/> PCBs not regulated by |
| <input type="checkbox"/> Free Sulfide | <input type="checkbox"/> Used Oils | <input checked="" type="checkbox"/> OSHA Substances | TSCA 40 CFR 761 |
| <input type="checkbox"/> Free Ammonia | <input type="checkbox"/> Virgin Oils | <input type="checkbox"/> Biological Materials | <input type="checkbox"/> None of the above |

If any of the above are checked "Yes", specify type (if applicable) and include its concentration as part of the waste composition, Section 6.

6. COMPLETE WASTE COMPOSITION

Concentration ranges are suggested, but total must equal 100%. Units must be identified and are to be in parts per million (ppm) and/or percentages (%). Attach additional pages if necessary. NOTE: Components are mechanically bound in the resin matrix.

Components	Range Min. / Max.	Components	Range Min. / Max.
Thermoset Resins (phenolic, epoxy, melamine) See Attached Resin Composition Sheets for Resin Constituents.	30/60	Substrates (paper, linen, canvas, fiberglass, aramid fiber, graphite)	40/70

7. TRANSPORTATION INFORMATION

If the waste is a DOT Hazardous Material, complete the following: NA

Proper USDOT Shipping Name: _____

USDOT Hazard Class: _____ UN or NA Number: _____ CERCLA Reportable Quantity: _____

8. SUPPLEMENTAL INFORMATION

- ☐ None
 ☐ MSD Sheets
 ☐ Analytical Data
 ☒ Memo/Letter
 ☒ Waste Composition
- ☐ Other - describe _____ No. of Pages 4

9. GENERATOR'S CERTIFICATION

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, that all known or suspected hazards have been disclosed, and that the waste is not designated a Hazardous Waste by the USEPA or contains PCBs regulated by TSCA 40 CFR 761.

GENERATOR'S AUTHORIZED SIGNATORY:

5-8-92 Gregory A. Stubbs *Gregory A. Stubbs* Mgr. Environmental Affairs *GS*
 DATE PRINT NAME SIGNATURE TITLE INITIALS

REPRESENTATIVE SAMPLE CERTIFICATE

This Section is to be completed by the person obtaining the sample of the above described waste, preferably a representative of the generator. DO NOT COLLECT OR SUBMIT SAMPLES THAT ARE RADIOACTIVE, SHOCK SENSITIVE, EXPLOSIVE, OR PYROPHORIC.

I certify that the sample identified below that is being forwarded to BFI for evaluation is representative of the waste described above.

Collector's Name: Gregory A. Stubbs

Signature: *Gregory A. Stubbs*

Company: Spaulding Composites Co., Inc.

Title: Manager, Environmental Affairs

Telephone Number: (716) 692-2000

(Peel Off Label)

PHENOLIC AND EPOXY RESIN COMPOSITION

CONSTITUENTS

CONCENTRATION %

Resins:

Phenol-Formaldehyde	}	Various Blends
Cresylic Acid modified Phenol-Formaldehyde		
Aniline modified Phenol-Formaldehyde		
Cresol modified Phenol-Formaldehyde		
Epoxy		
Epoxy Novalak		58.5 - 100

Catalysts:

Ammonium hydroxide	0 - 1.5
Dicyclohexylamine	0 - 3.3
Hexamethylene tetramine	0 - 1.7
Benzyl dimethylamine	0 - 0.2
Diethylene triamine	0 - 0.8
Dicyandiamide	0 - 3.4
Sodium hydroxide	0 - 1.5

Additives: (plasticizers, flame retardants, release agents, dyes, etc.)

Acintol Tall Oil Heads	0 - 14.6
Gum Rosin	0 - 7.4
Triethyl phosphate	0 - 33.6
Leucophor® (optical brightener)	0 - 0.07
Lauric acid	0 - 1.9
Dibutyl phthalate	0 - 32.6

PHENOLIC AND EPOXY RESIN COMPOSITION (cont'd.)

CONSTITUENTS

CONCENTRATION %

Molybdenum disulfide	0 - 4.9
Titanium dioxide	0 - 2.3
M and T Flame Retardant®	0 - 4.9
Polyvinyl butyrate	0 - 8.2
Butylbenzyl phthalate	0 - 35.7
Mold Wiz® (release agent)	0 - 1.6
Celluflex®	0 - 6.4
Nigrosine Black Dye	0 - 2.2
Black Epoxy Paste	0 - 3.3
Olive Epoxy Paste	0 - 2.1
Volan Green Dye	0 - 1.5

MELAMINE RESIN COMPOSITION

CONSTITUENTS

CONCENTRATION (%)

Resin:

Melamine-Formaldehyde

97.0 - 100

Additives:

Titanium dioxide

0 - 2.3

Brown Dye

0 - 3.0

SPAULDING COMPOSITES NON-HAZARDOUS WASTE TC REGULATORY IMPACT ANALYSIS

<u>BFI APPL. #</u> <u>DIST.</u>	<u>BFI APPL. #</u> <u>CORP.</u>	<u>APPROV. DATE</u> <u>DIST.</u>	<u>APPROV. DATE</u> <u>CORP.</u>	<u>APPROV. DATE</u> <u>NYSDEC</u>
141	26475	5/25/84	2/22/85	5/25/84

WASTE DESCRIPTION:

Resin impregnated paper and cloth (synonyms: prepreg or B-stage)
Laminated paper, cloth, and fiberglass (synonyms: plastic laminates, C-stage, Spauldite® waste)

ANALYSIS:

Cresols (methyl phenols) are the only chemicals on the TCLP list which are used in the manufacture of materials from which these wastes derive. A worst case sample was analyzed using the TCLP. The material analyzed is the prepreg manufactured by Spaulding Composites which incorporates the highest percent by weight of cresols. Results of the TCLP analysis indicated a cresol concentration of 4.0 ppm in the TCLP extract, well below the 200 ppm regulatory threshold. (See E & E Inc. laboratory report of TCLP extracts analysis - Spaulding I.D. #588571, E & E I.D. # EE-90-82457).

The prepreg is the incompletely cured precursor of the completely cured (C-stage) plastic laminate. Free cresol is present at a much higher concentration in the prepreg than in the laminate. On this technical basis it is concluded that the plastic laminate waste, if analyzed by TCLP, will result in a lower concentration of cresol in the TCLP extract than was reported for the prepreg analyzed. Dust from the bag houses generated from the sawing and sanding of plastic laminates was also analyzed using the TCLP. The dust was analyzed because of the difference in its physical state. The finely divided particulate nature of the dust increases its surface area significantly relative to other plastic laminate wastes and relative to the TCLP (sieve) requirements for solid non-particulate wastes. The large surface area of the dust potentiates leaching. Analysis of the laminate dust TCLP extract resulted in a reported cresol concentration of 0.70ppm, significantly below the TC regulatory threshold of 200 ppm. (See E & E Inc. laboratory report of TCLP extracts analysis - Spaulding sample I.D.# RLD-01, E & E Sample I.D.# EE-90-82458).

On the basis of the analytical results and knowledge of the wastes and processes generating the wastes, it is concluded that the wastes listed under this application are not hazardous as defined by the TC. It should be noted that less than 13% of the materials comprising this waste stream incorporate cresol at any concentration. The remaining 87% of the materials comprising this waste stream do not incorporate cresol or any other TC constituent.