

295SERBSF10,616

295SERBSF10,616

Site Name (Subject): SINGER CO/FURNITURE DIV PLTS 3

Site ID (Document ID): NCD000604322

Document Name (DocType): Correspondence (C)

Report Segment:

Description: General Correspondence, 1979 - 2008

Date of Document: 4/30/2008

Date Received:

Box: *Enter SF and # with no spaces* SF10,616

Access Level: PUBLIC

Division: WASTE MANAGEMENT

Section: SUPERFUND

Program (Document Group): SERB (SERB)

Document Category: FACILITY

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SINGER CO FURNITURE DIV PLTS 3 4 & MH

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Site Name: SINGER CO FURNITURE DIV PLTS 3 4 & MH

Street: 904 VA ST SW

City / State / ZIP: LENOIR, NC 28645

NPL Status: Not on the NPL

Non-NPL Status: Assessment indicates NPL listing not warranted based on current information

EPA ID: NCD000604322

EPA Region: 04

County: CALDWELL

Federal Facility Flag: Not a Federal Facility

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<u>OU</u>	<u>Action Name</u>	<u>Qualifier</u>	<u>Lead</u>	<u>Actual Start</u>	<u>Actual Completion</u>
00	DISCOVERY		F		07/01/1980
00	PRELIMINARY ASSESSMENT	L	S		06/01/1984
00	ARCHIVE SITE		EP		09/07/1989
00	PRELIMINARY ASSESSMENT	N	F	09/07/1989	09/07/1989

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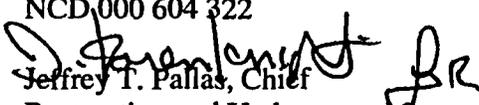
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

APR 30 2008

MEMORANDUM

SUBJECT: Referral from RCRA to Superfund
Singer Furniture Company
Lenoir, North Carolina
NCD 000 604 322

FROM: 
Jeffrey T. Pallas, Chief
Restoration and Underground Storage Tanks Branch
RCRA Division

TO: R. Donald Rigger, Chief
Superfund Remedial and Site Evaluation Branch
Superfund Division

The RUST Branch would like to transfer the above-referenced facility from the RCRA Program to the CERCLA Program to address known and potential hazardous waste contamination at the site. My staff believes the situation at Singer Furniture Company can best be served by the CERCLA Program since the facility filed for bankruptcy in 2000 and subsequently abandoned the Singer Furniture property in Lenoir, NC. In addition, the North Carolina Department of Environment and Natural Resources (NCDENR) Hazardous Waste Section, which administers the RCRA Program, has also requested this facility be referred to the CERCLA Program because the company has gone through dissolution and has repeatedly failed to respond to the State's request for additional investigation and remediation.

In June 1988 Singer Furniture Company was granted RCRA permits to operate an incinerator and a hazardous waste storage area. The incinerator and storage area were clean closed under RCRA in 1994. The RCRA Facility Assessment (RFA) identified nine solid waste management units (SWMUs) and recommended that RCRA Facility Investigation (RFI) activities be conducted at five of the units.

In 2000, Singer Furniture Company sold 38 of the original 61 acres to Bernhardt Furniture Company. Also in 2000, Singer Furniture Company declared bankruptcy and sought reorganization under Chapter 11. Although Singer Furniture Company has ceased operations in North Carolina, it still owns 23 of the original 61 acres. As far as NCDENR can ascertain, Singer Furniture and its parent company, The Singer Company N.V., has ceased all operations in the United States. The corporate headquarters for The Singer Company is in the Netherlands.

Two SWMUs are of particular concern: SWMU 1, the Landfill, and SWMU 3, the Glue Evaporation Pond. Most of SWMU 1 is located on Singer Furniture property, but a portion lies on property owned by the City of Lenoir. The landfill began operation as the city's landfill as early as 1938 and received waste from Singer and other furniture companies until 1980. Furniture wastes disposed in the landfill included furniture manufacturing wastes, trash, heavy equipment, construction and demolition debris, and lumber waste. The furniture manufacturing wastes were reported to be organic solvents, varnishes, lacquers, paints, stains, and glue resins. Samples of surface water seeping from the landfill were collected by EPA in 2004. Results showed that several constituents, primarily metals, exceed the NC surface water and ground water standards. In addition, the existing cap is in poor condition and needs to be repaired.

SWMU 3, the Glue Wash Evaporation Pond, is contained within the 38-acre tract purchased by Bernhardt. However, Singer agreed to retain responsibility for cleanup. The contamination at SWMU 3 was never fully assessed and may be a source of contamination to the ground water. Arsenic may be the primary contaminant of concern at SWMU 3.

Although Singer Furniture Company conducted some investigation as part of the RCRA permit, NCDENR recommends additional work at the facility as follows:

- a) Determine the vertical components of groundwater flow.
- b) Review and assess the available subsurface data which does not support the interpreted groundwater flow direction in some areas of the site.
- c) Investigate and assess the groundwater flow in the bedrock aquifer.

Attached to this memo is the Referral Agreement Documentation page. In order to maintain a complete administrative record for this facility, please sign and return a copy of the signed Referral Agreement Documentation page which we will then forward to the Hazardous Waste Section at NCDENR.

If you have any questions or need additional information regarding this referral please contact John E. Johnston of the Corrective Action Section at extension 28458 or Karen Knight, Chief of the Corrective Action Section, at extension 28885.

Attachment

cc: Elizabeth W. Cannon, NCDENR
Karen Knight, EPA Region 4
John E. Johnston, EPA Region 4

Referral Agreement Documentation

Entire-Facility Referral Documentation

RCRA to Non-RCRA Federal Authority

The facility currently known as **Singer Furniture Company** with **EPA ID# NCD 000 604 322**, located at 714 Virginia Street, Lenoir, Caldwell County, in the state of North Carolina, is, and remains, a facility subject to RCRA Corrective Action (CA).

However, the RCRA program has determined it is most advantageous that the CERCLA Program (a Non-RCRA Federal Authority) address the Corrective Action responsibilities at this facility because the company has gone through dissolution. As soon as the Non-RCRA Federal Authority takes responsibility for the cleanup of this entire facility, the Non-RCRA Federal Authority will track their progress under their (e.g., GPRA) measures, and the facility will no longer be tracked on the RCRA CA program's GPRA Baseline or measures.

Elizabeth W. Cannon
Chief
Hazardous Waste Section
North Carolina Department of Environment and Natural Resources

Date 4-16-09

Robert Knight Jr
Chief
Restoration and Underground Storage Tanks Branch
U.S. EPA, Region 4

Date 4-30-09

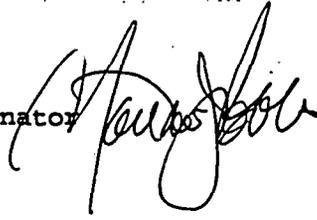
Chief
North Site Management Branch
U.S. EPA, Region 4

Date _____

1985 DATE: August 22, 1995

SUBJECT: REMOVAL FROM EPA'S CERCLIS INVENTORY

FROM: Matthew J. Robbins, Brownfields Coordinator
Waste Management Division, Region IV



TO: SINGER CO FURNITURE DIV PLTS 3 4 & MH
904 VA ST SW
LENOIR
NC 28645

EPA has identified the Brownfields Initiative as one of the Agency's top priorities. The term "brownfields" refers to previously used properties that may lie vacant because potential contamination makes them unmarketable to the private sector. EPA has recently announced a comprehensive Brownfields strategy, including Pilot grants to municipalities, to stimulate economic revitalization.

One part of the strategy has been for EPA to review its complete inventory of Superfund sites. These sites have been screened and determined to require no remedial action under the Federal Superfund Program based on information available as well as on conditions and policies that currently exist. This is to notify you that EPA has removed your facility from EPA's computer inventory known as CERCLIS. THIS DOES NOT INDICATE THAT THE STATE HAS MADE A SIMILAR DETERMINATION.

If you have any questions, please call me at 404/347-5059 ext. 6214.

cc: State Agency



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

RECEIVED

SEP 5 1989

SUPERFUND BRANCH

4WD-SISB

SEP 0 1 1989

Mr. Greg Shank
NUS Corporation
1927 Lakeside Parkway, Suite 614
Tucker, GA 30084

Dear Mr. Shank:

Please open TDD's on the following North Carolina sites for completion of the Two-Phase Site Screening Investigations. The sites are arranged by geographical area.

<u>NO.</u>	<u>REF. NO.</u>	<u>I.D. NO.</u>	<u>NAME</u>	<u>COUNTY</u>
1	2538	NCD000623140	Duracell Intl Lithium Systems	Burke
2	2616	NCD003163888	Henredon Furniture, Inc.	Burke
3	2786	NCD049997786	Iumont Corporation	Burke ?
4	2620	NCD003167988	Marantz Piano Co., Inc.	Burke
5	2525	NCD000609784	PT Components, Inc.	Burke
6	2810	NCD055161186	Romarco LTD	Burke
7	4284	NCD981472624	US 70 Drum Dump	Burke
8	2518	NCD000604322	Singer Co. Furniture Div. Plants 3-4	Caldwell RCRA TSD
9	3171	NCD991279118	Meredith/Burda, Inc.	Catawba
10	2754	NCD044440642	Lane Company, Inc.	Catawba
11	2848	NCD066304627	Premium Coatings, Inc.	Catawba
12	2671	NCD003228087	S&W Chemicals, Inc.	Catawba
13	2966	NCD105797922	Technibilt (Div. of Whittar)	Catawba
14	2544	NCD000648436	Trend Line Furniture Corp.	Catawba
15	2903	NCD081332991	Trend Line Furniture Corp	Catawba

16	2875	NCD072012354	Singer Co. Furniture Division Washington	Beaufort
17	2740	NCD042091215	RJR Tech Co.	Bertie
18	2644	NCD003197704	Salt Wood Products	Craven
19	2540	NCD000623223	Martin Manufacturing Properties	Martin
20	2877	NCD072020399	Proctor & Gamble Paper Products Co.	Pitt
21	2887	NCD075575191	Reed National Corp.	Pitt
22	2626	NCD003184249	Union Carbide Corp.	Pitt
23	2563	NCD000813592	GA-Pacific Corp. HDWD Saw	Washington
24	2554	NCD000773507	GA-Pacific Corp. HDWD Saw	Halifax

*Check for
RFA
Stamps*

If you have any questions, please call Kelly Cain at (404) 347-5065.

Sincerely,

Susan M. Deihl, Chief
North Unit
Site Assessment Section

cc: Grover Nicholson, NCDHR



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

4WD-SISB

Mr. Greg Shank
NUS Corporation
1927 Lakeside Parkway, Suite 614
Tucker, GA 30084

RECEIVED

AUG 14 1981

SUPERFUND BRANCH

Dear Mr. Shank:

Please open TDD's on the following North Carolina sites for completion of the Two-Phase Site Screening Investigations. The sites are arranged by geographical area.

<u>NO.</u>	<u>REF. NO.</u>	<u>I.D. NO.</u>	<u>NAME</u>	<u>COUNTY</u>
1	2538	NCD000623140	Duracell Intl Lithium Systems	Burke
2	2616	NCD003163888	Henredon Furniture Inc.	Burke
3	2786	NCD049997786	Dumont Corporation	Burke
4	2620	NCD003167988	Marantz Piano Co., Inc.	Burke
5	2525	NCD000609784	PT Components, Inc.	Burke
6	2810	NCD055161186	Romarco LTD	Burke
7	4284	NCD981472624	US 70 Drum Dump	Burke
8	2518	NCD000604322	Singer Co. Furniture Div. Plants 3-4	Caldwell <i>MPA</i>
9	2686	NCD003237948	General Electric Co.	Catawba
10	2754	NCD044440642	Lane Company, Inc.	Catawba <i>NPA</i>
11	2848	NCD066304627	Premium Coatings, Inc.	Catawba
12	2671	NCD003228087	SRW Chemicals, Inc.	Catawba
13	2966	NCD105797922	Technibilt (Div. of Whittar)	Catawba
14	2544	NCD000648436	Trend Line Furniture Corp.	Catawba
15	2903	NCD081332991	Trend Line Furniture Corp	Catawba

16	2875	NCD072012354	Singer Co. Furniture Division. Wash.	Beaufort	JFH
17	2740	NCD042091215	RTR Tech Co.	Bertie	
18	2644	NCD003197704	Salt Wood Products	Craven	
19	2882	NCD075550517	Swiss Bear, Inc.	Craven	?
20	2540	NCD000623223	Martin Manufacturing Properties	Martin	
21	2877	NCD072020399	Proctor & Gamble Paper Products Co.	Pitt	
22	2887	NCD075575191	Reed National Corp.	Pitt	
23	2626	NCD003184249	Union Carbide Corp.	Pitt	JFH
24	2563	NCD000813592	GA-Pacific Corp. HDWD Saw	Washington	

If you have any questions, please call Kelly Cain at (404) 347-5065.

Sincerely,

Susan M. Deihl, Chief
North Unit
Site Assessment Section

cc: Grover Nicholson, NCDHR

SITE NAME: SINGER CO. FURNITURE DIV. PLANT 3, 4 & MH

ID #: NCD 000604322

• THIS SITE IS A TSD. DO NOT SCHEDULE SITE INVESTIGATION.



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

March 28, 1984

Mr. Walton Jones
EPA 3012 Regional Project Officer
Air and Hazardous Materials Division
U. S. Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30365

Subject: Preliminary Assessment Report

Celanese Corporation
2400 Archdale Drive Charlotte, N. C. 28210 NCD093338116

Lenoir City Landfill
904 Virginia Street Lenoir, N. C. 28645 NCD980557888

Singer Company/Furniture Division
904 Virginia Street Lenoir, N. C. 28645 NCD000604322

Caldwell County Landfill
NC Highway 90 Lenoir, N. C. 28645 NCD980557870

Singer Company/Furniture Division
1409 West College Avenue Lenoir, N. C. 28645 NCD000604330

Singer Company/Furniture Division
2424 Norwood Street (Hwy 3215) Lenoir, N.C. NCD062568035
27330

Singer Company/Furniture Division
133 A Charlotte Avenue Sanford, N.C. 27330 NCD053490462

Singer Company/Furniture Division
Route 1, Gibson Avenue Bryson City, N.C. NCD098765506
28713

Singer Company/Furniture Division
State Road 1175 Chocowinity, N. C. 27817 NCD072012354

SCM Corporation/Glidden Coating and Resins
3926 Glenwood Drive Charlotte, N. C. 28208 NCD093338119

Everhart Lumber Company
Thurmond Road, State Road 1117 NCD003190584
New Bern, N. C. 28560

Mr. Walton Jones

March 28, 1974

Page 2

Dear Mr. Jones:

Enclosed please find the Preliminary Assessment reports for the subject sites.

Based on our review of available data, Celanese Corporation, the Lenoir City Landfill, the Caldwell County Landfill and the subject Singer Company/Furniture Division plants are not hazardous waste sites and should be placed on the inactive ERRIS List.

Celanese Corporation/Fibers Research Division in Charlotte notified due to on-site burial between 1959 and 1962 of 900 cubic feet of filter pads containing small amounts of acetone and methylene chloride. According to the Celanese Environmental and Safety Supervisor, the filters were used while developing a new process; they were not used after 1962. The burial site is now covered with grass and no other wastes have been buried on-site. No further action is recommended for the Celanese Corporation site on Archdale Drive in Charlotte due to the low quantities and volatility of the solvents and the passage of more than 20 years since the site was last used for burial.

The Lenoir City Landfill was included on the ERRIS List due to a Singer Company notification for lacquer spray residues and lacquer spray sludge. Waste analysis data shows that no hazardous materials were discarded in the landfill with the exception of filler scrapplings. The filler scrapplings are hazardous by characteristic due to ignitability. Prior to 1960 standard solid waste disposal consisted of open burning at the landfill, as well as covering and mixing the waste with soil and other materials. This quantity of waste would no longer be ignitable given the methods of disposal. According to the Lenoir City Manager's office, the landfill was closed 25 years ago and is covered by vegetation. No further action is recommended for the inactive Lenoir City Landfill on Virginia Street in Lenoir.

The Singer Company/Furniture Division on Virginia Street in Lenoir, N. C. notification shows lacquer spray residues and lacquer spray sludge were discarded on property adjacent to (and purchased from) the Lenoir City Landfill. Waste characterization data for residues and sludges, as well as the filler scrapplings reference for the Lenoir City Landfill in the preceding paragraph is applicable. Singer Company on site burial of ignitable materials was discontinued in 1976. No further action is recommended.

The Caldwell County Landfill is included on the ERRIS List as a result of a Singer Company/Furniture Division notification for lacquer spray residue and lacquer spray sludge. Waste characterization for residue, sludge and filler scrappings outlined in a preceding paragraph for the Lenoir City Landfill is applicable. The landfill was closed in 1976. No further action is recommended for the Caldwell County Landfill on N. C. Highway 90 in Lenoir.

Five Singer Company/Furniture Division facilities were included on the ERRIS List via the Hazardous Waste Data Management System (HWDMS). Singer Company locations are listed above. According to the Singer Company Safety Engineering Manager, there has never been on-site burial or spills at any of the facilities. No further action is recommended for each of the Singer Company/Furniture Division Plants.

The SCM Corporation/Glidden Coatings and Resins Division notification involves a 1976 leak of 50,000 gallons of vinyl acetate after a spill of hydrochloric acid corroded an underground connecting pipe. Celanese Corporation owned the facility in 1976, which was purchased by SCM Corporation in 1977.

Celanese developed and implemented a remedial scheme, eventhough the property had been transferred to SCM. SCM contends that Celanese is responsible for remedial action and monitoring. The remedial plan has been plagued with problems, primarily related to the pumping well.

A 16 September 1980 status report indicates that water samples from the pump-out well and plant perimeter ground-water monitoring wells will be analyzed for organic contaminants and that results will be forwarded to N. C. Division of Environmental Management. DEM files contain monitoring data from July 1980 through May 1982 for biological and chemical oxygen demand, pH and heavy metals. Although the site has not been routinely monitored for priority pollutants, a 5 May 1980 Enviroscience screening report shows the presence of benzene, toluene, 1,1-dichlorethane, 1,2-trans-dichloroethylene, methylene chloride and vinyl chloride. Whether the water sample was taken from the pumping well or monitoring well is unknown.

According to an SCM official in Ohio, SCM Corporation is preparing to file a complaint against Celanese Corporation. Due to impending litigation, SCM will not release information on the site to the N. C. Solid and Hazardous Waste Management Branch, or to the N. C. Division of Environmental Management.

The extent and source of soil and groundwater contamination is unknown. Laboratory analysis indicates there are sources of contamination in addition to the 1976 vinyl acetate leak. Notwithstanding the agreement with the N.C. Division of Environmental Management, a workable remedial action plan and monitoring program has not been implemented. A medium priority assessment is recommended for the SCM Corporation/Glidden Coatings and Resins.

Everhart Lumber Company was a wood treatment facility which ceased operation at the death of the owner in 1979. On 18 March 1983 vandals opened the valve to the tank and a mixture of pentachlorophenol and fuel oil flowed into a ditch leading to a drainage ditch along Hwy 70. Everhart family members pumped the mixture back into the tank during the three weeks following the spill.

On 14 March 1984 an EPA emergency response team from Edison, N. J. took sixteen (16) soil samples. Recommendations for remedial action and monitoring will be developed by EPA on scene coordinator Sue Fields based on laboratory analysis. A low priority assessment is recommended.

On 27 March 1984 the Department of Human Resources the Solid and Hazardous Waste Management Branch Chief O. W. Strickland, Senior Hazardous Waste Environmental Engineer William Meyer and 3012 Personnel reviewed each of the subject sites along with Natural Resources and Community Development Department representatives from the Water and Air Quality and Groundwater Sections. Each of the subject site recommendations was approved by the committee.

If you have any questions, please contact me.

Sincerely,



Lee Crosby, Chemist

Solid & Hazardous Waste Management Branch
Environmental Health Section

LC:jj
cc: O. W. Strickland
Bill Meyer
Jay Sauber
Arthur Mouberry
Dennis Ramsey
Bill McClelland

Attachments



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NC NCD000604322

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Singer Company-Furniture Division		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 904 Virginia Street			
03 CITY Lenoir	04 STATE NC	05 ZIP CODE 28645	06 COUNTY Caldwell	07 COUNTY CODE 014	08 CONG DIST 10
09 COORDINATES LATITUDE 35 53 4.5 0		LONGITUDE 081 33 0.0 0			

10 DIRECTIONS TO SITE (Starting from nearest public road)
Travel southwest on Hwy 18 towards Morganton from Lenoir. At the intersection with the Eaton plant turn left. The site is located between Fairview Drive and Virginia Street.

III. RESPONSIBLE PARTIES

01 OWNER (If known) Singer Company		02 STREET (Business, mailing, residential) 904 Virginia Street			
03 CITY Lenoir	04 STATE NC	05 ZIP CODE 28645	06 TELEPHONE NUMBER 704 728-6741		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ()	

13 TYPE OF OWNERSHIP (Check one)
 A. PRIVATE B. FEDERAL: _____ (Agency name) C. STATE D. COUNTY E. MUNICIPAL
 F. OTHER: _____ (Specify) G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
 A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ____/____/____ MONTH DAY YEAR C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)
 YES DATE ____/____/____ MONTH DAY YEAR A. EPA B. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR
 NO E. LOCAL HEALTH OFFICIAL F. OTHER: _____ (Specify)
 CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
 A. ACTIVE B. INACTIVE C. UNKNOWN
 RCRA Facility

03 YEARS OF OPERATION
 BEGINNING YEAR ENDING YEAR UNKNOWN
 _____ 1981

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
 EPA NOTIS report indicates that Singer discarded lacquer spray sludges and residues on site. After 1976 no lacquers were discarded at the facility.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
 Waste characterization data shows that wastes are not hazardous by characteristic or by exceeding the maximum concentration for contaminant metals. Ignitable filler scrapping have been covered and diluted while landfilled and are no longer considered hazardous.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
 A. HIGH (Inspection required promptly) B. MEDIUM (Inspection required) C. LOW (Inspect on time available basis) D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Dick McDonald		02 OF (Agency/Organization) The Singer Company		03 TELEPHONE NUMBER 704 728-674	
04 PERSON RESPONSIBLE FOR ASSESSMENT O. W. Strickland		05 AGENCY DHR	06 ORGANIZATION Solid & Haz. Waste Mgt. Br.	07 TELEPHONE NUMBER '919 733-2178	08 DATE 3 12 84 MONTH DAY YEAR



PHOTOGRAPH BY [unreadable]

WILLIAM F. SCHMIED

President & Chief Operating Officer, The Singer Company

BY LESTER BROOKS

Rocketing the sewing machine giant into the space age has been one of the tasks for this high-tech executive, a firm believer in hands-on management.

If you thought that things were just sew-
ing at The Singer Company, the 132-
year-old sewing machine pioneer, you
haven't looked at it lately ... and you
haven't met Bill Schmied.

Electronics engineer William F.
Schmied is president and chief operating
officer of Singer and has, with its CEO
Joseph Flavin, transformed the company
into an aerospace electronics colossus.

Bill Schmied joined Singer in early 1969
after a career in engineering and man-
agement of high-tech businesses, when
such activities were relatively minor at
Singer — "and were not viewed as our
major thrust for the future," he adds. But
all that's changed, and Singer's aero-
space operations today have a primary
role in the company's plans. In 1982,
Singer's aerospace sales brought in 60
percent of its U.S. revenues — many
notches distant from the days when its
sewing machine sales were practically
the whole quilt.

When you walk into Bill Schmied's
comfortable, conservatively contempo-
rary office on the 11th floor of Singer's
new, ultra-modern world headquarters
building in Stamford, Connecticut, you
find no display of corporate products. You
won't see a single sewing machine, or any
of Singer's current manufactures. In fact,
standing around the room, you might
judge from a Kauba bronze sculpture of
a charging pony-riding Indians and a nee-

dlework version of Rosa Bonheur's "The
Horse Fair" that the occupant is in the
equine trade.

Actually, the slim, sandy-haired execu-
tive is in the hardware business in a big —
that is to say, \$2.5 billion in annual reve-
nues — way.

Schmied likes to talk about the incredi-
bly complex electronic marvels that
Singer now specializes in — the high-tech,
state-of-the-art devices that have fueled
the company's transition to an aerospace
frontrunner.

Its Link flight simulators, for instance,
have trained crews for every American
manned spaceflight program, including
the Space Shuttle. Most free-world air line
flight crews are trained in Link simulators
and Link's B-52 Weapons System Trainer
enables the full crew to duplicate all as-
pects of an actual mission — from in-air re-
fueling to battling an enemy attack. Link
simulators are also used to train nuclear
power plant personnel and operators of
sophisticated process-control industry
systems.

Singer's Kearfott division developed
and produces the inertial navigation sys-
tem used by the Space Shuttles from
launch to landing. It also manufactures
the starsighting system that guides Tri-
dent missiles once they are launched
from their submarines. Its Librascope di-
vision manufactures submarine fire con-
trol systems and command/control/com-

munications equipment for the field Army.

Schmied can't discuss much of
Singer's high-tech work because it's clas-
sified. Example: Singer's HRB division at
State College, Pennsylvania, does super-
secret work, collecting, processing and
analyzing defense electronic signals of all
types.

But Singer also manufactures and sells
an unusual assortment of more mundane
products. That includes the latest descend-
ants of Isaac Singer's original domestic
and industrial sewing machines; wooden
home furniture and Craftsman-label
power tools marketed by Sears,
Roebuck; floor-care equipment, meters,
and controls.

In that mix, its high-tech products have
bolstered the company and changed the
way observers view Singer. As the *Value
Line* reports, "Aerospace is Singer's
biggest and fastest-growing line...this
group's high technology products are
likely to remain in strong demand by both
government and industry through the
1986-1988 period at least, permitting the
segment to continue its fast growth."

It was not always so. In fact, it was only
in 1973 that Singer collected its aero-
space electronics operations and put
them in one basket under Schmied's di-
rection. Together, the aerospace opera-
tions brought in only 13 percent of
Singer's revenues in 1973. Schmied is

Continued

justifiably proud that in 1983, aerospace sales totaled nearly \$1.1 billion, about 45 percent of Singer's total revenues.

The shift from sewing machines as its fundamental product to aerospace electronics has been deliberate. "We're not swung by the economic cycles as much now," says Schmied, "because we've got that solid anchor called aerospace electronics which doesn't just run with the consumer cycle. And yet we have the consumer businesses that can generate the competitive, free-market kind of profits that you can't hope to get in our regulated aerospace businesses."

Bill Schmied ticks off some ways Singer's aerospace operations have contributed to its other businesses. "They've been instrumental in the design of our top-of-the-line electronic sewing machine and our microprocessor-controlled, hand-held power tools."

In the controls division, Singer uses aerospace electronics technology in such applications as touch-sensitive control panels on appliances. "There've been a lot of real trade-offs between aerospace and the other businesses," Schmied

notes, "so the combination, I think, is really good."

How does a smiling, easy-going, Midwesterner wind up as president of Singer, one of the 150 largest industrial corporations in the nation?

If you're Bill Schmied, you start in Blue Island, Illinois, a small town near the Indiana border, just 15 miles from Chicago's Loop. He was born there in 1928. As a kid he was fascinated with electronics. "I guess I liked the ability to cause the effects that you can without all

"We are the original multinational company," he says ebulliently — referring to Singer's overseas expansion more than a century ago.

the moving parts and gears and that sort of thing," he muses. He built radios and even an experimental TV set from scratch and discovered he had a natural bent. By age 13, he was convinced that he wanted to be an electronic engineer. He went to nearby Purdue University, rated one of the nation's top three engineering schools at the time and received his EE degree in 1951.

First stop for the new engineer was Washington, D.C., where he was a civilian on the Naval Research Laboratory staff. "It was one heck of a good training ground," he says enthusiastically. But the Korean War was raging and he joined the Air Force, and was involved in it until that conflict shut down. Then it was off to the aerophysics lab of North American Aviation — known today as the Autonetics Division of Rockwell International. "So," says Schmied, "I sort of started in the electronics business and stayed with it."

At North American, Schmied was an instrumentation-design engineer for the Navajo missile. He describes the Navajo as an aircraft with a rocket booster, a scaled-down ringer for the Space Shuttle. "It was incredibly close," he recalls. "It had a piggy-back rather than vertical stack configuration." His assignment was the navigation equipment. Inertial navigation was in its infancy at the time, but grew rapidly during the '50s and '60s as America's space program expanded and our space shots multiplied.

It was while he was working in California that he met his future wife, a Fort Worth native named Jan McKay. They were married at Carmel and he acknowledges a warm spot in his heart for that old Spanish mission town. In fact, he finds the

Continued

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WILLIAM F. SCHMIED *Continued*

Old West fascinating. That's why he keeps that vivid bronze of the Indian charge by his desk. At home he cherishes a bronze of a Western scene by Harry Jackson. Of today's West he says, "their way of life has a lot to recommend it."

It was in 1959 that Litton Industries formed its guidance and controls division, and Schmied became part of it. "There were a number of unmanned space probes that we were on at that time," says Schmied. "That's where I really got most of my interface with the space program."

Fred O'Green, now chairman of Litton, was president of its guidance and controls division in the '60s. "I think I probably learned more, management-wise, from Fred O'Green than anybody I came across in my early career," Schmied says. "A heckuva good man!" By 1969, Schmied was vice president and chief engineer for the division. But he had ambitions to run a division himself. So when he was offered the spot as head of Singer's Kearfott Division in 1969, Schmied took it.

The year before, Singer had acquired General Precision Equipment Co. and one of its divisions, Kearfott, specialized

in navigation and guidance equipment. "I found a lot of good people there, real top-notch people," he remembers. "And some excellent products. But they needed direction very badly. They just needed somebody to help them get there, and I filled that bill. We turned things around and really made it go." That success propelled him to vice president of what was then called the Defense Systems Group.

Schmied still sees sewing machines as an important continuing element in the company's future operations.

Bill Schmied was named executive vice president of Singer in 1974, responsible for the aerospace operation, and was elected to the board of directors in 1978. In 1980 he was elected president and chief operating officer.

Though he comes from a strong, state-of-the-art, high-tech background, Schmied, as he looks down the road, still sees sewing machines as an important continuing element in Singer's operations for years to come. "In the developed world," he points out, "lifestyles have changed. More women are now in the

work force, or if at home, are not doing as much sewing. And as a result, that total marketplace has dropped off considerably. But in the developing world — Asia, Africa, the Middle East and South America — the business is particularly good because the sewing machine is a necessity, not a luxury. And as the worldwide economy comes back, that's really a growth market."

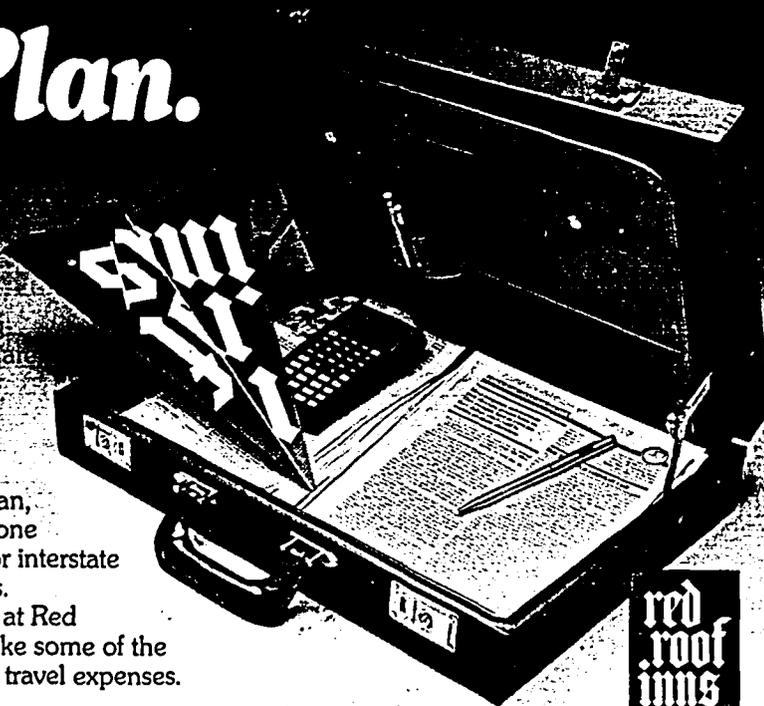
Singer's strategy in Asia is to sell off some of its equity. Schmied cites Indonesia as an example. It's one he recently observed first-hand. "There we presently have the authority to produce 45,000 sewing machines a year. The market absorbs those in no time. There's much more market that we have the potential to build, but we're a foreign national company. So, selling part of our equity in Indonesia will let us go to 100,000 units of production. It's just that simple."

In other words, many restrictive regulations are loosened, if not removed, when Singer shares participation in its operations with local nationals. "Indonesia is a very high-population country — fourth or fifth in the world — and there the average man and woman doesn't have the ability to run down to their nearest Bamberger's to get some clothes off the rack. They make them themselves. It's a tremendous market potential." *Continued*

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WILLIAM F. SCHMIED *Continued*

Schmied's travel schedule is enough to bring tears of joy to airline executives. In three months last year he went to Brazil and back, then to Brussels - NATO headquarters - and back; Mexico and back; Athens for a meeting of Singer's international group, on a three-day turnaround; and a Far East swing including Hong

Kong, Singapore, Jakarta, Bangkok and Tokyo.

In addition, his domestic schedule demands that he visit Singer's widely scattered aerospace and consumer products locations in the U.S. Lenoir, North Carolina, is a center of the furniture operations; controls operations are concentrated in the Chicago area; Motor Products in Pickens, South Carolina; meters in Philadelphia and Nebraska; Kearfott operations in Little Falls, New Jersey, and San Marcos, California; Librascope is headquartered in Glendale; HRB is in

State College, Pennsylvania; and Link Light Simulation Divisions in Binghamton, New York, Houston, Texas and Sunnysvale, California. And there are dozens of other locations where the company has important installations.

Is all this travel really necessary? "If you asked my wife..." Schmied laughs, letting the sentence dissolve, but meaning "she'd say 'no.'" Jan travels with him occasionally, however, helping him host business or company gatherings.

Schmied's schedule leaves little time for the sailing he enjoys. However, he does keep a powerboat for an occasional "putt-putt about Long Island Sound." He was an ardent backpacker when he lived in California - with such treks as Kearfott Pass at 11,800 feet. Now he's taking up golf, when he can work-in a round or two between trips. One of the few hobby activities he can indulge in is photography. He carries a camera on his trips and enjoys taking slides and enlarging them.

"I think I do an inordinate amount of traveling," he confesses, "but I really believe in hands-on management. I like to give our operating management a great deal of latitude, but having them up here to give a presentation on how things are going is a far cry from going out there and thumping the watermelon."

And how does Singer's world look after thumping the watermelons?

"We are the original multinational company," answers an ebullient Schmied, ringing in a reference to Singer's early history when it expanded overseas more than a century ago. "As such, you can't just look at the U.S. You've got to look at Asia, Latin America, Europe, because we're active in all those areas. The U.S. economy obviously is improving, and we see this reflected in our U.S. consumer businesses. Europe tends to lag the U.S. by several months, and we're finding a little bit different trend than we have in past recessionary cycles. The pattern has changed in some of the countries - France is an example. And then the developing countries of South America and Asia tend to lag that even further because they're commodity producers, in general, and the more developed countries have to increase commodity purchasing before those economies come back up."

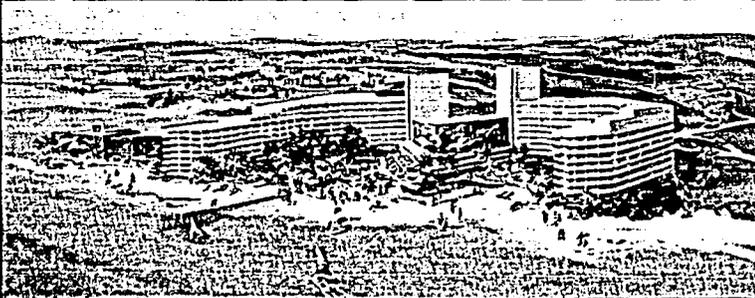
How about the short run? "Company-wise," smiles Bill Schmied, "it's going to be a dramatic improvement because of the things we've done and gotten behind us." He exudes confidence, convinced that high-tech aerospace as well as its other operations will continue to rocket Singer to a lucrative future.

Freelance writer Lester Brooks is based in New Canaan, Connecticut. 

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Levine

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

February 7, 1984

Mr. Richard McDonald
Engineer
Singer Furniture Company
Post Office Box 1588
Lenoir, North Carolina 28645

RE: Singer Furniture Company

NCD098765506	Bryson City
NCD000604330	Lenoir
NCD000604322	Lenoir
NCD053490462	Sanford
NCD072012354	Chocowinity
NCD062568035	Lenoir

Dear Mr. McDonald:

This is to confirm our 6 February 1984 telephone conversation when we discussed Singer Furniture Company's 103(c) CERCLA notification to EPA. As requested I have enclosed ERRIS listings for Singer Furniture Company.

In summary I hope to receive from you pertinent safety data sheets and information regarding the quantities of materials discarded at each site, as well as the physical condition of the material and the procedures followed when the materials were discarded. I would also appreciate your including directions to each referenced Singer site.

This information will facilitate the processing of your company's file through the 3012 Program. If you have any questions, please contact me. I look forward to working with you on this project.

Sincerely,

Lee Crosby

Lee Crosby, Chemist

Solid & Hazardous Waste Management Branch
Environmental Health Section

LC:jj

SINGER
FURNITURE

P. O. Box 1588
Lenoir, North Carolina 28645

February 27, 1984

Ms. Lee Crosby, Chemist
Department of Human Resources
Solid & Hazardous Waste Management Branch
Environmental Health Section
P. O. Box 2091
Raleigh, N.C. 27602-2091



Dear Ms. Crosby:

Subject: The Singer Company
Furniture Division
-Bryson City Plant, NCD098765506
-Plant No. 1, NCD000604330
-Plants 3, 4 & MH, NCD000604322
-Plants 5, 6, 7 & CWH, NCD062568035
-Washington Plant, NCD072012354
-Sanford Plant, NCD053490462
CERCLA NOTIFICATION

This information is in response to your recent request regarding the Cercla Notification of the subject locations.

Of the six locations referenced, may I say, only one, i.e., Plants 3, 4, and M.H., NCD000604322, has a former landfill site on the property. Each of the other five (5) locations do not have a landfill site on the property, but sent waste finishing material to county and/or city landfills. The directions I will be giving you in Item No. 5, following, will be on the Plant No. 3 property only.

Also, it is important to note that the Plant No. 3 site began as a Caldwell County and Lenoir City landfill in the 1950's. The property was purchased by Kent Coffey Furniture Company and Plant No. 3 was constructed in the early 1960's. The landfill then continued to serve only Kent Coffey. The property was transferred to Magnavox in the late 1960's and then to Singer in 1973. The plant on the property continued to use the landfill on the same property through the 1960's and 1970's. Furniture finishing

Page #2
Ms. Lee Crosby
February 27, 1984

materials were no longer put into the landfill after 1976, although the landfill continued to be used for the various furniture trash such as furniture pieces, cartons, sawdust and the like. All use of the fill was discontinued in 1981.

Following is the information requested in your letter.

1. Safety Data Sheets -

Enclosed you will find a detailed waste characterization study done for our Part B permitting of the Plant No. 3 location. It will provide information on all of the finishing material used at the six referenced locations, since all plants use basically identical finishing material.

2. Quantities -

This can only be estimated based upon what we dispose of now in an average year, further adjusted downward due to lesser production needs, more conservative use of finishing materials prior to 1976, and lack of use of a high liquid waste producing print line prior to 1966. The figure given is a total solid and liquid waste in tons over the producing life of the facility up until 1976, at which time landfilling of hazardous wastes was discontinued.

Plant	Total Hazardous Wastes in Tons
Bryson City	465
Lenoir No. 1	1,113
Lenoir Nos. 3, 4 & MH	280
Lenoir Nos. 5, 6, 7 & CWH	563
Sanford Plant	795
Washington Plant (Choccowinity)	465

3. Physical Condition -

The hazardous waste tonnage in No. 2 above took the form of solid finish material scrappings (from spray booth walls and floors), which would be in a dry dust and chip form, and liquid solvent wastes which are from clean-up operations

Page #3
Ms. Lee Crosby
February 27, 1984

with nonhalogenated hydrocarbons and in a 5% water, 20% solid and 75% solvent mixture. Solid and liquid wastes are collected separately.

4. Disposal Procedures -

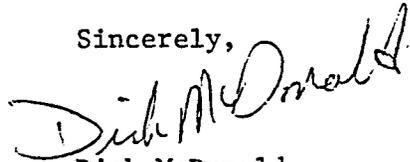
From discussions with persons involved with this type disposal during the period prior to 1976, the waste (both solid and liquid) was placed into 55 gallon drums and 5 gallon cans for transporting to the landfills. At the landfill it was either dumped out of the drums or cans onto the ground, or placed into the landfill in the drum or can if the container condition was poor. Some solid waste was also placed into cardboard containers and landfilled with the box.

5. Site Location -

The site on which is located the former landfill area is Plant No. 3 (NCD000604322). This site is located at 904 Virginia Street, S.W., Lenoir. Enclosed is a copy of the Lenoir City map, showing site location.

This information should supply you with all you need. If, however, you need additional information, please contact me.

Sincerely,



Dick McDonald
Safety Engineering Manager

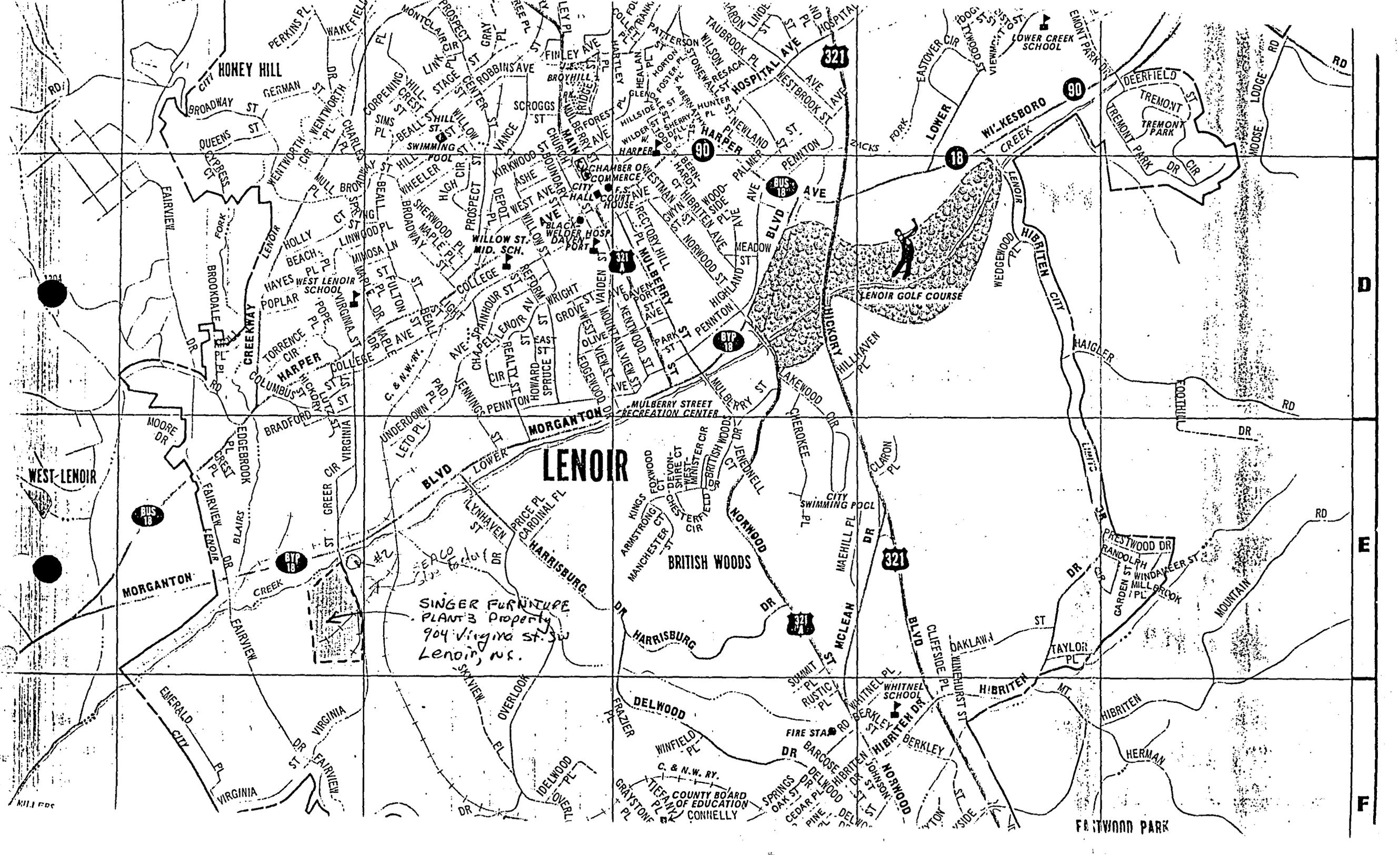
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Enclosures

APPENDIX A
WASTE CHARACTERIZATION

1. Sample Collection Procedure
2. Laboratory Analysis Specification
3. Laboratory Analysis Results
4. Material Safety Data Sheets

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43,387 100 SHEETS 3 SQUARE
42,389 200 SHEETS 3 SQUARE
NATIONAL
MADE IN U.S.A.

PLANT	Solid (lbs/year)	Liquids lbs/year	years operat d	SINGER PURCHASE YEAR
B.C.	15K	30K w/pur 15K w/o	45-76 (31)	1973
1	28K		26-76 (50)	1973
3	26K		66-76 (10)	1973
V.C.	24K		46-76 5,6 (30) 56-76 7 (20)	1973
SAN	23K		40-76 (36)	1969
WASIT	11K		46-76 (30)	1969
WASIT	27600 17,100	70,126 47,500 51,000	83 82 81 AVG	5 22K Print Line
SAN	44,295 49,000 46,250	46,350 36,000 42,570	83 82 81 AVG	46.5K Print Line
B.C.	Now 29,500 32,000 31,000	57,200 14,600 24,000	83 82 81 AVG	30.8K 31.9K
1	38,400 50,800 72,000	83,291 51,585 148,000	83 82 81 AVG	57.3K Print Line 19 to 19
3	92,000 42,400 22,000	125,000 84,909 84,000	83 82 81 AVG	Print Line - 1968 62K 98K
J.C.	47,400 19,000	102,150	83 82 AVG	Print Line 1968 48.2K 83.6

SAMPLE COLLECTION PROCEDURE

The procedures for collecting samples of waste for laboratory testing are described below. Each sample will be collected and placed in a container, then each sample container will be labelled and sealed. Field Log Sheets and Chain of Custody records will be completed for each waste sample for record keeping purposes. Containers, labels and seals will be provided by the laboratory.

Table 1 lists the wastes to be sampled by waste number, type, and description. The samples will be collected following the procedures described below, depending upon which category a given waste is assigned - solids, liquids, or solid particles.

A. Sample Collection Procedure - Solids

1. Waste to be Sampled

Waste Number	Waste Type
108	U-V Filler

2. Point of Sampling

A. Waste sample will be collected from the 5-gallon bucket selected at random.

3. Number of Samples

One sample will be taken.

4. Volume of Samples

The volume of the sample taken will be sufficient to fill the container provided by the laboratory.

5. Sampling Precautions and Protection Gear

The person collecting the sample must use hard hat, neoprene rubber gloves, and goggles.

6. Sampling Procedures

- a. Wearing protective gear, place the contents of the bucket (a solid mass) on a clean and dry surface area.
- b. Using a sufficiently large hammer, break off a piece of the solid mass that will fill the volume of the laboratory container provided.
- c. Care should be taken to obtain a sample of the solid mass in one uniform piece. Do not collect fine particles and do not grind or break-up the sample.
- d. Place the sample in the container provided by the laboratory.
- e. Cap the container; attach the label and seal; record on the field log sheets; and complete the chain of custody record.

B. Sample Collection Procedures - Liquids

1. Waste to be Sampled

Waste Number	Waste Type
107	Water Wash Stain

2. Point of Sampling

A waste sample will be collected through the open hatch on top of the waste truck.

3. Number of Samples

One composite sample will be taken using the Coliwasa sampler. A sketch of the Coliwasa Sampler is shown in Figure 1, and a list of its components may be found on Table 2.

4. Volume of Samples

The volume of liquid collected in the Coliwasa sampler will constitute the volume of the sample.

5. Sampling Precautions and Protective Gear

The person collecting the sample must use protective clothing, hard hat, neoprene rubber gloves, goggles, and rubber boots. Protective clothing consists of a long-sleeved coverall and oil-and-acid proof apron.

6. Sampling Procedures

Two persons will perform the sampling: one person will do the actual sampling and the other will handle the sampling container and provide needed assistance. The following steps should be following in sampling the tanker truck contents:

- a. Let the truck driver open the hatch.
- b. Using protective sampling gear, assume a stable stance on the tank catwalk or access run to the hatch.
- c. Put sampler in the open position by placing the stopper rod handle in the T-position and pushing the rod down until the handle sits against the sampler's locking block.
- d. Slowly lower the sampler into the liquid waste. (Lower the sampler at a rate that permits the levels of the liquid inside and outside the sampler tube to be about

the same. If the level of the liquid in the sampler tube is lower than that outside the sampler, the lowering rate is too fast and will result in a nonrepresentative sample).

- e. When the sampler stopper hits the bottom of the waste container, push the sampler tube downward against the stopper to close the sampler. Lock the sampler in the close position by turning the T handle until it is upright and one end rests tightly on the locking block.
- f. Slowly withdraw the sampler from the waste container with one hand while wiping the sampler tube with a disposable cloth or rag with the other hand.
- g. Carefully discharge the sample into the sample container provided by the laboratory by slowly opening the sampler. This is done by slowly pulling the lower end of the T handle away from the locking block while the lower end of the sampler is positioned in a sample container.
- h. Cap the sample container; attach label and seal; record on field log sheet; and complete as quickly as possible to prevent loss of volatile components and possible oxidation from the air; complete the chain of custody record.
- i. Unscrew the T handle of the sampler and disengage the locking block. Clean sampler on site or store the contaminated parts of the sampler in a plastic storage

tube for subsequent cleaning. Store used rags in plastic bags for subsequent disposal.

j. Deliver the sample to the laboratory for analysis.

C. Sample Collection Procedure - Solid Particles

1. Waste to be Sampled:

Waste Number	Waste Type
101	Clear Lacquer Dust
102	Pigmented Lacquer Dust
103	Stain Residue
104	Filler Scrappings
105	Lacquer Ash
106	Filler Ash
109	Base Coat

2. Point of Sampling

Samples will be taken from the waste storage drums except for waste number 109, which will be sampled directly from the spray booth.

3. Number of Samples

One composite sample will be taken of each waste identified in item 1 above. Each composite sample will be made up of grab samples from 3 different drums, or 3 different spray booths.

4. Volume of Samples

The volume of the sample taken will be sufficient to fill the container provided by the laboratory.

5. Sampling Precautions and Protective Gear

The person collecting the sample must use protective

clothing, hard hat, neoprene rubber gloves, goggles, rubber boots, and protective face mask. Protective clothing consists of a long-sleeved coverall and oil-and-acid proof apron.

6. Sampling Procedures

- a. For each waste type, select three drums to be sampled at random.
- b. Wearing protective gear, ensure that the drum to be sampled is in a stable upright position.
- c. Open the drum slowly so that generation of airborne particulates is minimized. Note that wastes number 109 will be collected directly from the spray booth instead of a drum.
- d. Examine the material to be sampled to ensure that it is a granular/dust form. Some drums may contain material that must be crushed to achieve a granular particle size.
- e. Use an ordinary zinc-plated garden trowel or a laboratory scoop to obtain representative samples from each drum. At regular intervals take small, equal portions of sample from the surface or near the surface of the material to be sampled.
- f. Combine the equal portions of sample from each drum sampled into a single combined sample in the container provided by the laboratory - mix contents thoroughly before closing.
- g. Cap the container; attach the label and seal; record in the field log sheet; complete the chain of custody record.

h. Deliver to the laboratory.

D. Sample Handling

The following procedures for sample handling are applicable to all samples obtained.

1. Identification of Sample

Each sample must be labeled and sealed properly after collection. Examples of sample labels and seals may be found on Figure 2. Sample labels are necessary to prevent misidentification of samples. The label must include the following information.

- a. Name of collector
- b. Date and time of collection
- c. Place of collection
- d. Collector's sample number that uniquely identifies the sample.

Sample seals are used to preserve the integrity of the sample from the time it is collected until it is opened in the laboratory. Gummed paper seals can be used. The seal must carry the following information.

- a. Collector's name
- b. Date and time of sampling
- c. Collector's sample number (this number must be identical to the number on the sample label)

The seal must be attached in such a way that it is necessary to break it to open the sample container.

2. Field Log Sheet

All information pertinent to the sampling performed must be

recorded on a field log sheet. An example of a field log sheet may be found on Figure 3. Entries on the log sheet will include the following:

- a. Identification of the sample collectors.
- b. Type of waste sampled.
- c. Number and volume of sample taken.
- d. Date and time of collection.
- e. Collector's sample identification number.
- f. Sample distribution (i.e. laboratory).
- g. Any comments that may be relevant.

The field log sheet should be kept as a permanent record in the company files.

3. Chain of Custody Record

A chain of custody records should be kept for each sample.

An example of a chain of custody record may be found on Figure 4. The record should contain the following information:

- a. Collector's sample number.
- b. Signature of collector.
- c. Date and time of collection.
- d. Place and address of collection.
- e. Waste numbers and type.
- f. Signature of person receiving the samples.

D. Shipping of Sample

If the samples are delivered to the laboratory by company personnel, the chain of custody records should be completed

before leaving. If the samples are shipped to the laboratory, instructions should accompany the samples for the laboratory to complete the chain of custody record and return a copy of it to the company. The samples must be packaged in a proper shipping container to avoid leakage and/or breakage. A cardboard box that will provide at least 10 cm (4 in.) of tight packing around the sample container must be used. Acceptable packing materials include sawdust, crumpled newspapers, vermiculite, polyurethane chips, etc. The boxes must be taped closed with masking tape or fiber plastic tape.

All packages must be accompanied by a chain of custody record. Complete address of the sender and the receiving laboratory must legibly appear on each package. When sent by mail, register the package with return receipt requested. When sent by common carrier, obtain a copy of the bill of lading. Post office receipts and bill of lading copies may be used as part of the chain of custody documentation.

ATTACHMENTS

TABLE I

WASTES TO BE SAMPLED

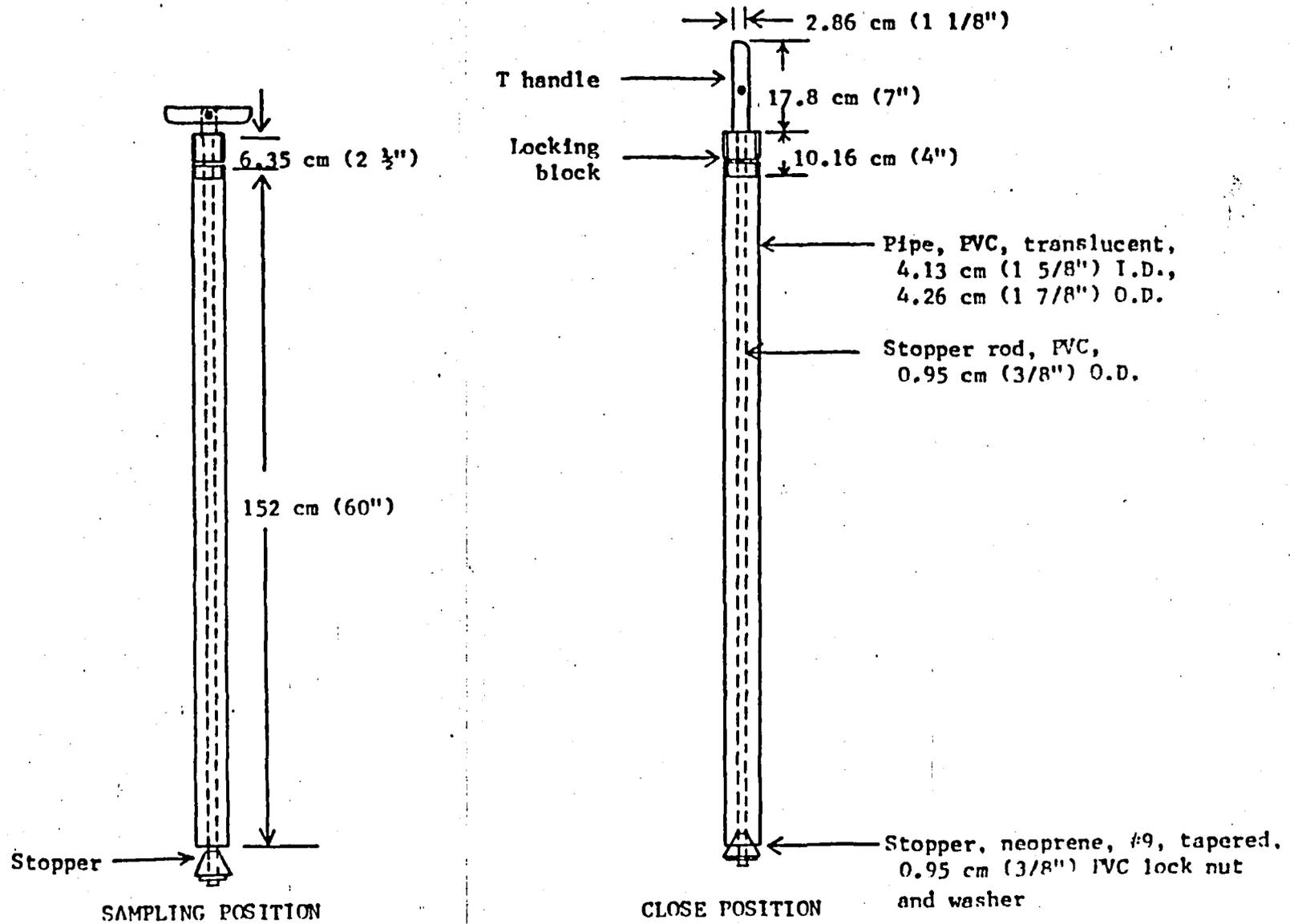
<u>Waste Number</u>	<u>Waste Type</u>	<u>Waste Description</u>
101	Clear Lacquer Dust	Solid, crumbly, dusty, combustible, may contain nitrocellulose, low bulk density
102	Pigmented Lacquer Dust	Solid, crumbly, dusty, combustible, may contain nitrocellulose, low bulk density
103	Stain Residue	Solid, crumbly, dusty, combustible, may contain nitrocellulose, low bulk density
104	<i>flammable</i> Filler Scrappings	Moist paste, dark color, fine solids; no free liquid
105	Lacquer Ash	Incinerator ash, dusty, dry solid
106	Filler Ash	Incinerator ash, dusty, dry solid
107	Water Waste Stain	Liquid containing suspended solids and solvents. Solvents may be both soluble and insoluble in water. High water content.
108	U-V Filler	Solid, plastic-like material
109	Base Coat	Solid-dust or powder

Table 2

PARTS FOR CONSTRUCTING THE COLIWASA

Item	Supplier	Approximate Cost ^a
Sample tube, PVC plastic, translucent, 4.13 cm(1 5/8 in.) I.D. X 1.52 m(5 ft) long X 0.4 cm(5/32 in.)	Plastic supply houses	\$ 4.00 each
Sample tube, glass borosilicate, 4.13 cm(1 5/8 in.) I.D. X 1.52 m(5 ft) long, Code 72-1602.	Corning Glass Works, Corning, N.Y.	\$12.00 each
Stopper, rubber, neoprene, #9, modified as described in footnote. ^b	Laboratory supply	\$ 6.00/0.45 kg(1b)
Stopper rod, PVC, 0.95 cm(3/8 in.) O.D. X 1.67 m(5½ ft) long.	Plastic supply houses	\$ 5.00/6.1 m(20 ft)
Stopper rod, Teflon, 0.95 cm(3/8 in.) O.D. X 1.67 m(5½ ft) long.	Plastic supply houses	\$30.00/3.05 m(10 ft)
Locking block without sleeve, PVC, 3.8 cm(1½ in.) O.D. X 10.2 cm(4 in.) long with 1.11-cm(7/16 in.) hole drilled through center.	Fabricate. Rods available at plastic supply houses. Can be bought in 30.48 cm(1 ft) length	
Sleeve, PVC, 4.13 cm(1 5/8 in.) I.D. X 6.35 (2½ in.) long.	Fabricate from stock of 4.13 cm(1 5/8 in.) I.D. PVC pipe. Available at plastic supply houses	\$.80/30.48 cm(ft)
T-handle, aluminum, 18 cm(7 in.) long X 2.86 cm(1 1/8 in.) wide with 1.27 cm(½ in.) wide channel.	Fabricate. Aluminum bar stock available at hardware stores.	\$3.00/1.83 m(6 ft)
Swivel, aluminum bar, 1.27 cm(½ in.) square X 3.8 cm(1½ in.) long with 3/8 National Coarse (NC) inside thread to attach stopper rod.	Fabricate. Aluminum bar stock available at hardware stores.	\$ 3.00/1.83 m(6 ft)
Nut, PVC, 3/8 in. NC thread	Plastic supply houses	\$.03 each
Washer, PVC, 3/8 in.	Plastic supply houses	\$.03 each
Nut, SS, 3/8 in., NC	Hardware stores	\$.10 each
Washer, SS, 3/8 in.	Hardware stores	\$.10 each
Bolt, 3.12 cm(1 ½ in.) long X 3/16 in.	Hardware stores	\$.10 each
Nut, 3/16 in., NC	Hardware stores	\$.03 each
Washer, lock 3/16 in.	Hardware stores	\$.03 each

^a 1977 prices



Composite liquid waste sampler (Coliwasa)

Figure 1

OFFICIAL SAMPLE LABEL

Collector _____ Collector's Sample No. _____

Place of Collection _____

Date Sampled _____ Time Sampled _____

Field Information _____

Example of official sample label.

OFFICIAL SAMPLE SEAL

Singer furniture Company
Lenoir, North Carolina

Collected by _____ Collector's Sample No. _____
(signature)

Date Collected _____ Time Collected _____

Place Collected _____

Example of official sample seal

Figure 2

FIELD LOG SHEET

Singer Furniture Company
Lenoir, North Carolina

Collector's name: _____
Date and time of collection: _____
Collector's identification number: _____
Waste number: _____
Waste type: _____
Approximate sample volume: _____
Sample distribution: _____
Comments: _____

Example of a field log sheet

Figure 3

LABORATORY
ANALYSIS SPECIFICATION

FOR

SELECTED FURNITURE WASTES
FROM
SINGER FURNITURE
LENOIR, NORTH CAROLINA

1.0 GENERAL

1.1 This specification describes the procedures to be followed in performing laboratory testing services for selected wastes from a furniture production facility. The purpose of this analysis is to characterize each waste, determine whether each waste is hazardous under 40 CFR 261, and quantify hazardous constituents (as listed in Appendix VIII of 40 CFR 261) that may be present in the wastes. The testing laboratory who will perform this analysis will be selected on the basis of their proposal and cost quotation for the work described in this specification.

2.0 SAMPLE COLLECTION

2.1 Representative samples will be collected by Singer and sent to the testing laboratory.

3.0 SAMPLE CONTAINERS

3.1 Sample containers will be provided by the testing laboratory. The testing laboratory will specify the sample volume required for each waste type, based on the list of all analyses that may be performed for each. The containers shall be sent to Singer immediately after the laboratory is notified that their proposal has been accepted.

4.0 ANALYSIS PROCEDURE

4.1 The waste types, waste descriptions and tests to be performed for each waste are listed in Table 1. For each waste type, there are two levels of tests that may be performed. Level A tests will be performed for each waste type to determine whether the waste is hazardous by characteristic. Level B tests will be performed for a particular waste ONLY if the tests in Level A show the sample to be E. P. Toxic as defined by 40 CFR 261, Subpart C. Note that E. P. Toxicity analyses shall be for metals only.

5.0 REPORTING RESULTS

5.1 Test results for each waste type will be reported on separate pages. Test results for more than one waste type will not be reported on the same page. Reference test methods shall be indicated for each test performed. Duplicate copies of all test results reports will be sent to Sirrine Environmental Consultants, Inc. and Singer Furniture:

5.0 REPORTING RESULTS - Continued

Sirrinc Environmental Consultants, Inc.
P. O. Box 12748
Research Triangle Park, NC 27709

Singer Furniture
P. O. Box 1588
Lenoir, NC 28645

Attention: Mr. T. R. Hewitt

Attention: Mr. R. J. McDonald

Final reports will be mailed no later than 15 days after receipt of the samples. When the test results are complete, the testing laboratory will report results by phone to Sirrinc:

T. R. Hewitt
919-541-2081

6.0 RETAINING SAMPLES

6.1 The testing laboratory shall retain all leftover samples in properly sealed containers for 60 days after test results have been mailed. After the results are reviewed, additional tests may be requested.

7.0 TEST METHODS

7.1 All tests shall be performed in accordance with EPA specified procedures where applicable. The following procedures shall be used.

<u>Test</u>	<u>Reference Method</u>
1. E. P. Toxicity (Metals only)	As described in 40 CFR 261, Appendix II, most recent version
2. Ignitibility (liquid)	Methods allowed by 40 CFR 261.21, most recent version
3. Ignitibility (solid)	The laboratory shall make a judgement of whether the sample is ignitable as defined by 40 CFR 216.21
4. Organic chemicals	As described 40 CFR 261 Appendix III, most recent version
5. Other tests	Refer to attached Table 2

8.0 QUOTATION

8.1 The testing laboratory shall submit a proposal and cost quotation for performing the work described in this specification. The proposal shall include at least the following:

8.0 QUOTATION - Continued

1. A statement that the testing laboratory can complete the described work in the time specified.
2. A completed quotation sheet (Table 3)
3. Any exceptions to the Analysis Specification

Quotations should be sent to Sirrine Environmental Consultants, Inc. and be received no later than April 27, 1983. We anticipate that the sample will be collected between May 2 and May 11 and mailed immediately to the laboratory.

TABLE I
WASTE ANALYSIS SCHEDULE

<u>Waste Number</u>	<u>Waste Type</u>	<u>Waste Description</u>	<u>Tests</u>
101	Clear Lacquer Dust	Solid, crumbly, dusty, combustible, may contain nitrocellulose, low bulk density	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Total Phthalates (B) Toluene (B) Methy Ethyl Ketone (B)
102	Pigmented Lacquer Dust	Solid, crumbly, dusty, combustible, may contain nitrocellulose, low bulk density	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Total Phthalates (B) Toluene (B) Methy Ethyl Ketone (B)
103	Stain Residue	Solid, crumbly, dusty, combustible, may contain nitrocellulose, low bulk density	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Total Phthalates (B) Toluene (B) Methy Ethyl Ketone (B)
104	Filler Scrappings	Moist paste, dark color, fine solids, no free liquid	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Total Phthalates (B) Toluene (B) Methy Ethyl Ketone (B)
105	Lacquer Ash	Incinerator ash, dusty, dry solid	E. P. Toxicity (A)
106	Filler Ash	Incinerator ash, dusty, dry solid	E. P. Toxicity (A)
107	Water Wash Stain	Liquid containing suspended solids and solvents. Solvents may be both soluble and insoluble in water. High water content.	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Kinematic Viscosity (B) Percent Solids (B) Moisture Content (B) Total Phthalates (B) Toluene (B) Methy Ethyl Ketone (B)

TABLE I

WASTE ANALYSIS SCHEDULE - Continued

<u>Waste Number</u>	<u>Waste Type</u>	<u>Waste Description</u>	<u>Tests</u>
108	U-V Filler	Solid, plastic-like material	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Toluene (B) Methy Ethyl Ketone (B) Total Phthalates (B)
109	Base Coat	Solid-dust or powder	E. P. Toxicity (A) <u>Ignitibility (A)</u> Heating Value (B) Toluene (B) Methy Ethyl Ketone (B) Total Phthalates (B)

Notes: Tests designated (A) are Level A tests to be performed first. Tests designated (B) are Level B tests to be performed only if Level A tests show the sample to be E. P. Toxic.

January 17, 1984

TO: File
FROM: Lee Crosby
RE: Lenoir City Landfill
NCD980557888

According to Lex Honeycutt of the Lenoir City Manager's Office (704) 758-0011, the Lenoir City Landfill on Virginia Street (located within the Lenoir city limits).was closed out 25 years ago. The landfill operated at the time of the old sewage treatment plant during the WPA days.

Years ago the city sold part of the property to the Singer Company. The land has"long been covered by trees and grass. It would be a job to get to it."

Mr. Honeycutt suggested calling for Bowers (704) 754-4941, who has been a city employee for 25 years.if additional information is needed or Ralph Hagler (704) 758-0011, Assistant City Manager. Mr. Honeycutt offered to meet us at the site, if needed.

Also file under:

Singer Furniture Company
904 Virginia Street
Lenoir, N. C.

NCD000604322



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

August 2, 1983



Mr. Dick McDonald
Singer Company Furniture
Division Plant
P.O. Box 1588
Lenoir, NC 28645

RE: NCD000604322

Dear Mr. McDonald:

On July 22, 1983 Mr. Bob Apple of the Solid and Hazardous Waste Management Branch conducted a RCRA re-inspection of your facility. You were found to be in compliance with the standards.

This office wishes to thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

U. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

cc: Mr. Bob Apple





Wm P 8/2/83
Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
WESTERN REGIONAL OFFICE
Building 3
Black Mountain, N.C. 28711
(704) 669-3349

July 26, 1983



TO: O. W. Strickland
Head
Solid & Hazardous Waste Mgt.

FROM: Robert M. Apple *RMA*
Waste Mgt. Specialist
Western Regional Office

RE: ISS Reinspection of:

Singer Company Furniture Division Plant
904 Virginia Street, P. O. Box 1588
Lenoir, NC 28645
Caldwell County
EPA ID #NCD000604322
Contact: Dick McDonald, Safety Director
704/728-6741

A reinspection of the above-noted facility was made on July 22, 1983 and the plant was found to be in compliance with State Hazardous Waste Management Rules.

RMA/dgh



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

June 28, 1983

Mr. Dick McDonald
Singer Company Furniture
Division Plant
P.O. Box 1588
Lenoir, NC 28645

RE: NCD000604322

Dear Mr. McDonald:

On June 7, 1983 Mr. Bob Apple of the Solid and Hazardous Waste Management Branch conducted a RCRA inspection of your facility. The following violations were noted:

1. 265.15 Inspection Requirements - Existing inspection records did not accurately reflect condition of site. Inspections must be conducted in a fashion which documents and corrects possible violations.
2. 265.16(d)(3) Records of Training - Records of training received by incinerator employees and annual training review records were not provided.
3. 265.173 - Several containers containing waste were not properly closed during storage.
4. 262.30 Containers - Several Drums which were dented or corroded.

A compliance date of July 7, 1983 was established.

If you have any questions concerning this matter, please contact Mr. William Paige, Environmental Chemist at (919) 733-2178.

Sincerely,

U. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

cc: Mr. Bob Apple





WHL 6/23/83
Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
WESTERN REGIONAL OFFICE
Building 3
Black Mountain, N.C. 28711
(704) 669-3349

June 17, 1983

TO: O. W. Strickland
Head
Solid & Hazardous Waste Mgt.

FROM: Robert M. Apple *RMA*
Waste Management Specialist
Western Regional Office

RE: ISS Inspection of:

Singer Co. Furniture Division Plant
904 Virginia Street
P. O. Box 1588
Lenoir, NC 28645
Caldwell County
EPA ID #NCD000604322
Contact: Dick McDonald
Safety Director
704/728-6741



The following violations of ISS for Singer Company Furniture Division Plant (Virginia Street) were identified during an inspection of June 7, 1983:

- 1) 265.15 Inspection Requirements - Existing inspection records did not accurately reflect condition of site. Inspections must be conducted in a fashion which documents and corrects possible violations.
- 2) 265.16(d)(3) Records of Training - Records of training received by incinerator employees and annual training review records were not provided.
- 3) 265.173 - Several containers containing waste were not properly closed during storage.
- 4) 262.30 Containers - Several Drums which were dented or corroded.

It was agreed upon by Singer Company Furniture Division Plant (Virginia Street) and Robert Apple that all violations would be corrected by July 7, 1983.

RMA/dgh

SINGER Co. Furniture Div. P.H. NCD00067322 Caldwell
 Name of Site EPA I.D. County
P.O. Box 1588, Lenoir 6/7/83
 Location Inspection Date
7/7/83
 Compliance Date
 Signature of Inspector(s) [Signature]
 Signature of Facility Contact [Signature]

INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.

GENERATOR STANDARDS (262.00)

	C	NC	NA	Violation(s)
1. GENERAL (.10-.12)	✓			
2. THE MANIFEST (.20-.23)	✓			
3. PRE-TRANSPORT REQUIREMENTS (.30-.34)	✓		✓	262.30
4. RECORDKEEPING/REPORTING (.40-.43)	✓			
5. SPECIAL CONDITIONS (.50-.51)	✓			

TRANSPORTER STANDARDS (263.00)

1. GENERAL (.11-.12)	✓			
2. MANIFEST/RECORDKEEPING (.20-.22)	✓			
3. HAZARDOUS WASTE DISCHARGES (.30-.31)	✓			

TSDF STANDARDS (265.00)

1. GENERAL (.1-.4)	✓			
2. GENERAL FACILITY STANDARDS (.10-.17)		✓		265.16(d)(3), 265.15
3. PREPAREDNESS AND PREVENTION (.30-.37)	✓			
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES (.50-.56)	✓			
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING (.70-.77)	✓			
6. GROUND-WATER MONITORING (.90-.94)			✓	
7. CLOSURE AND POST-CLOSURE (.110-.120)				NOT REVIEWED
8. FINANCIAL REQUIREMENTS (.140-.145)	✓			
9. USE AND MANAGEMENT OF CONTAINERS (.170-.177)		✓		265.173
10. TANKS (.190-.199)			✓	
11. SURFACE IMPOUNDMENTS (.220-.230)			✓	
12. WASTE PILES (.250-.257)			✓	
13. LAND TREATMENT (.270-.282)			✓	
14. LANDFILLS (.300-.315)			✓	
15. INCINERATORS (.340-.351)				NOT COMPLETELY REVIEWED
16. THERMAL TREATMENT (.370-.382)			✓	
17. CHEM., PHYS./BIO. TREATMENT (.400-.406)			✓	
18. UNDERGROUND INJECTION (.430)			✓	

RCRA STATUS

GENERATOR TRANSPORTER TREATER STORER DISPOSER

IMMINENT HAZARD: YES NO

RCRA INSPECTION REPORT

FACILITY INFORMATION

Singer Co. Furniture Division Plant
904 Virginia Street
P. O. Box 1588
Lenoir, NC 28645
Caldwell County
EPA ID #NCD000604322

FACILITY CONTACT

Dick McDonald
Jack Triplett

SURVEY PARTICIPANTS

Robert M. Apple
Dick McDonald
Jack Triplett

DATE OF INSPECTION

June 7, 1983

PURPOSE OF SURVEY

RCRA compliance inspection was conducted at the Singer Company Plant by the N. C. Solid & Hazardous Waste Management Branch. The inspection was a comprehensive review of ISS for generators, treaters and storers of hazardous waste. The inspection included interviews, site survey and record review.

APPLICABLE REGULATIONS

40 CFR 262 and 265

FACILITY DESCRIPTION

No Change

DOCUMENTATION OF SITE DEFICIENCIES

265.15	265.173
265.16(d)(3)	265.30

Specific reference is made to the above-noted violations in a memorandum to O. W. Strickland.

COMPLIANCE SCHEDULE

It was agreed that all violations would be corrected by July 7, 1983.

GRAINGER LABORATORIES

INCORPORATED

ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

ANALYTICAL LABORATORY

Environment Analysis
Construction Materials
Identification of Unknowns
Agriculture
Fuels
Textiles
Chemicals
Hazardous Waste

May 24, 1983
83-7167

Singer Furniture Company
P. O. Box 1588
Lenior, NC 28645

Attention: Mr. R. J. McDonald

Subject: Analyses of Samples Received 5-9-83

AMENDED COPY
7-21-83

Sample Identification: Purchase Order No. 081195

1. 101
2. 102
3. 104
4. 105
5. 107
6. 108
7. 109

For results see attached pages.

W. Paul Brafford

W. Paul Brafford
General Laboratory Manager

WPB/dd
Attachments
cc: Mr. T. R. Hewitt

CONSULTATION

Metallurgical Services
Pollution Abatement
Process Development
Quality Control
Methods Development
Special Investigation
Pesticides
RCRA



GLI 83-7167

Waste # 101

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>

Ignitability

NON-FLAMMABLE

NOTE: All analyses were conducted in accordance with 40 CFR 261.

GLI 83-7167

Waste # 102

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>

Ignitability

NON-FLAMMABLE

NOTE: All analyses were conducted in accordance with 40 CFR 261.

GLI 83-7167

Waste # 104

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>
BTU/lb	<u>4880</u>
Methyl Ethyl Ketone, $\mu\text{g/g}$	<u><400</u>
Toluene, $\mu\text{g/g}$	<u><200</u>
*Phthalic Acid, wt%	<u><1.0</u>

Ignitability

FLAMMABLE, FLASH POINT @ 30°C

NOTE: All analyses were conducted in accordance with 40 CFR 261.

*The total phthalate esters were analyzed as phthalic acid liberated after base hydrolysis. Di-isobutyl phthalate was used as an internal standard in order to validate this methodology. The percent recovery for the internal standard was 85%.

GLI 83-7167

Waste # 105

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>

Ignitability

NON-FLAMMABLE

NOTE: All analyses were conducted in accordance with 40 CFR 261.

GLI 83-7167

Waste # 107

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>

Ignitability

NON-FLAMMABLE

NOTE: All analyses were conducted in accordance with 40 CFR 261.

GLI 83-7167

Waste # 108

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>

Ignitability

NON-FLAMMABLE

NOTE: All analyses were conducted in accordance with 40 CFR 261.

GLI 83-7167

Waste # 109

Date of Analysis 5/13/83

Analyst W. Paul Brafford

EP Toxicity Metals

Arsenic, leachable as As, mg/l	<u><0.2</u>
Barium, leachable as Ba, mg/l	<u><1.0</u>
Cadmium, leachable as Cd, mg/l	<u><0.5</u>
Chromium, leachable as Cr, mg/l	<u><3.0</u>
Lead, leachable as Pb, mg/l	<u><0.1</u>
Mercury, leachable as Hg, mg/l	<u><0.2</u>
Selenium, leachable as Se, mg/l	<u><0.2</u>
Silver, leachable as Ag, mg/l	<u><1.0</u>

Ignitability

NON-FLAMMABLE

NOTE: All analyses were conducted in accordance with 40 CFR 261.

TABLE 2

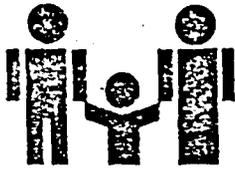
ACCEPTABLE ANALYTICAL METHODS FOR WASTE ANALYSIS

Parameter	Method(s)*	Comments
Heating Value	SA A006	Methods D2015 and D3826 are applicable to solid wastes and D240 is applicable to liquid wastes.
Chlorine (Organically bound)	SA A004 ASTM D2361, E442	Combustion method, may be combined with determination of carbon, hydrogen and sulfur
Hazardous Metals:	SA A021	Summary of atomic absorption and ICAP methods
Mercury	SW 8.57	These methods are based on detection of mercury vapor by atomic absorption spectrophotometer, and are subject to interferences. Spiked samples should be analyzed to establish recovery. Methods involving strong oxidation, such as ASTM D3223, should be avoided because of the possibility of explosions. Alternatively, atomic absorption may be used with a graphite furnace.
Arsenic Selenium	SW 8.51 SW 8.59	Gaseous hydride generation coupled with atomic absorption detection is recommended. This method is subject to interferences so spiked samples should be analyzed to establish recovery. Colorimetric methods, such as EPA 206.4 or ASTM D3081, should not be used because of interferences. Alternatively, atomic absorption may be used with a graphite furnace.
Barium Beryllium Cadmium Chromium Nickel Thallium Lead Silver Antimony	SW 8.52, EPA 208.1 EPA 210.1 SW 8.53, EPA 213.1 SW 8.54, EPA 218.1 SW 8.58, EPA 249.1 EPA 279.1 SW 8.56, EPA 239.1 SW 8.60, EPA 272.1 SW 8.50, EPA 204.1	These methods are for direct aspiration, flame, atomic absorption spectroscopy. Sample preparation should be performed in accordance with Section 200.1 of the EPA manual. Generally, the sensitivity achieved with the graphite furnace techniques is not required with hazardous waste samples, and the furnace methods are subject to interferences.
Hazardous Constituents, including PCB	Sampling and Analysis Manual	Hazardous constituents listed in Appendix VIII of Part 261 and those in Table 1 of 261.24 may be analyzed by methods in SW-846.
Kinematic Viscosity	SA A005 ASTM D445 or D88	A variety of methods may be employed using various types instruments, including rotational, piston, float, vibrating-probe or capillary types.
Percent Solids	ASTM D1888	A distinction should be noted between water insoluble solids and solids not soluble in organic solvents. Any of a variety of separation techniques may be employed; vacuum filtration, centrifugation, pressure filtration, etc.
Sulfur	ASTM D3177, E443	Combustion methods.
Ash	SA A001-A002 ASTM D3174 or D482	D3174 is for solid wastes and D482 is for liquid wastes.
Flash Point	ASTM D93, D3278, or D1310	Methods D93 and D3278 are pursuant to the definition of ignitable wastes in Section 261.21 of the regulations. D1310 provides comparable results.
Carbon and Hydrogen	ASTM D3178	Combustion method.
Moisture	SA A001-A002 ASTM D95, D3173	D95 is a xylene co-distillation and is recommended for most wastes. D3173 and A001-A002 are intended for solid wastes, but the oven heating will drive off volatile compounds in addition to water. D1796 is a centrifuge method intended for use with liquids.

* SA refers to Sampling and Analysis Manual for Hazardous Waste Incineration
 SW refers to Test Methods for Evaluating Solid Waste, SW-846
 ASTM refers to American Society for Testing and Materials Standards.

TABLE 3
QUOTATION SHEET

	<u>Cost</u>
1. All Level A Tests - Lump Sum	_____
2. All Level B Tests - Lump Sum (assuming all are necessary)	_____
3. Individual Test Cost Per Sample Tested:	_____
a. Heating Value	
Solid	_____
Liquid	_____
b. Total Phthalates	
Solid	_____
Liquid	_____
c. Methyl Ethyle Ketone	
Solid	_____
Liquid	_____
d. Toluene	
Solid	_____
Liquid	_____
e. Moisture Content	_____
f. Percent Solids	_____
g. Kinematic Viscosity	_____



Term
Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

May 18, 1983

Mr. R. J. McDonald
Safety Engineering Manager
Singer Furniture
P.O. Box 1588
Lenoir, NC 28645

Dear Mr. McDonald:

On May 16, 1983 we received a request for a 90 day extension on submitting your RCRA Part B Application which was originally due on May 29, 1983. Since 180 days are being allowed for preparation after we call for the Part B applications, we do not believe 90 day extensions are justified. We will grant a shorter extension with a new submission date of July 6, 1983.

Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc



SINGER
FURNITURE

P. O. Box 1588
Lenoir, North Carolina 28645

May 5, 1983

30 days

Mr. O. W. Strickland, Head
Solid and Hazardous Waste Management Branch
N. C. Department of Human Resources
Division of Health Services
Environmental Health Section
P. O. Box 2091
Raleigh, North Carolina 27602

Subject: Singer Furniture
Plant No. 3
Lenoir, N. C.
EPA ID# NCD000604322
Part B Application - due May 29, 1983

Dear Mr. Strickland:

We would like to request an extension of ninety (90) days on the deadline for submitting our Part B application for the subject facility.

After initial study of the project and attendance at a Seminar on preparing Part B in January, 1983, we decided to obtain outside help, and engaged Serrine Environmental Consultants.

After reviewing our wastes, Serrine suggested a waste characterization study to precede the Part B preparation. We believe that none of Singer's wastes are "F" or "K" listed, and some may not be hazardous. There is also a good probability that any hazardous wastes may be ignitable only, therefore making the incinerator exempt under 264.340(b).

We have therefore delayed work on the Part B application pending the final outcome of the waste study, expected in late May, because:

1. It may not be necessary at all
2. If necessary, the waste study will define the scope of the Part B application.

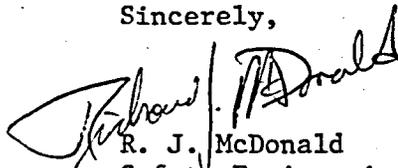
We, therefore, feel that we will need the 90 day extension for completing Part B. With Serrine handling the project, we can say that the 90 day extended deadline, if granted, will be met. Also, considering that the wastes at Singer are not

Mr. O. W. Strickland, Head
Solid and Hazardous Waste Management Branch
May 5, 1983
Page 2

listed wastes, we believe the risk is minimal and the 90 day extension would not threaten human health or the environment.

Thank you for your consideration.

Sincerely,



R. J. McDonald
Safety Engineering Manager

RJMcD/ew

cc: J. Don Wise
Dana Crump
Austin Shepherd
Tom Hewitt, Sirrine Environmental Consultants



3971000m N.

3972

3973

3974

55'

3975

OAK TAY

NCD 000604322

LENOIR, N.C.

1956 USGS



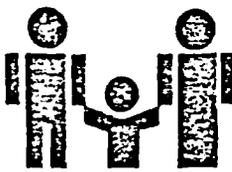
PERMITTING FILE
NCT 000604322

904 VIRGINIA STREET
LENOIR

A T T E N T I O N

Title of Project Singer Co. - Furniture Division
NCD000604322

MATERIAL RELATED TO THIS PROJECT AND CONSIDERED
CONFIDENTIAL IS ON FILE ELSEWHERE.



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

April 13, 1983

Mr. Harold Kirby
Singer Co. Furniture Div.
904 Virginia Street
Lenoir, N. C. 28645
NCD000604322

Dear Mr. Kirby:

North Carolina General Statute 130-166.18A requires that all applicants for a hazardous waste management permit demonstrate to the permitting agency that they have operated all of their facilities in substantial compliance with all applicable laws pertaining to hazardous waste management. Earlier correspondence I sent to you contained proposed regulations that specified information this office felt was necessary to satisfy the intent of the law. Comments received from various facilities across North Carolina were used to amend that initial draft into a final draft (see enclosure). This final draft of regulations will be presented to the N. C. Commission for Health Services on August 10, 1983.

Until the Commission acts on these proposed regulations, this office has the responsibility and authority to require whatever information it feels is necessary to satisfy the intent of N. C. General Statute 130-166.18A. At present, it is felt that the proposed regulations specify the information that must be submitted to satisfy the law.

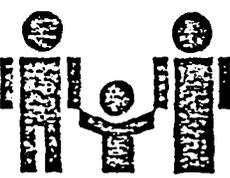
Therefore, if your facility has already submitted a hazardous waste management permit application (referred to as the Part B) or will in fact submit one within 30 days of the receipt of this letter, I am requesting that you also submit the information identified on the attached proposed regulations no later than May 20, 1983. If your facility has been asked to submit a Part B application and is not due until after May 20, 1983, consider the information specified on the attached proposed regulations as part of the requirements of your application package.

Should you have any questions or wish to contact this office concerning this letter, please call Glenn Dunn at (919) 733-2178.

Sincerely,

Thomas C. Karnoski, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section

TCK:ct
Enclosure



File

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

August 1, 1983

Mr. R. J. McDonald, Safety Engineering Manager
Singer Furniture
P.O. Box 1588
Lenoir, N. C. 28645

Dear Mr. McDonald:

This is to acknowledge receipt on July 29, 1983 of the
"Part B" section of your Hazardous Waste Management Permit Application.
This permit application covers hazardous waste activities at the facility
with EPA ID number NCD000604322.

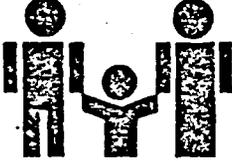
Should you have any questions concerning the status of your applica-
tion, please contact this office at 919/733-2178.

Sincerely,

Roger L. Coats

Roger L. Coats, Environmental Engineer
Solid & Hazardous Waste Management Branch
Environmental Health Section

RLC:ct



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

August 2, 1983

H. Lewis Price, City Manager
P. O. Box 958
Lenoir, NC 28645

Dear Mr. Price:

In accordance with G.S. 130-166.18(15)(F), I am notifying the City of Lenoir that this office received on Friday, July 29, 1983, an application for a permit to store hazardous waste in containers and for an incinerator to burn hazardous waste in the City of Lenoir. The permit was filed by Singer Furniture Plant No. 3, 904 Virginia St., SW, P. O. Box 1588 Lenoir, NC 28645.

This application does not represent any change from what the company has been doing. Those facilities that were in operation on November 19, 1980 received what is know as interim status, and have had to comply with the interim status regulations. Now that the final regulations are in place, we are notifying the companies that they must apply for a permit.

If you have any questions, please let me know.

Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:dwm

cc: William D. Forbes
Roger L. Hennessee
Bob Apple

CERTIFIED

SINGER
FURNITURE



P. O. Box 1588
Lenoir, North Carolina 28645
June 30, 1983

Mr. O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
N. C. Department of Human Resources
Division of Health Services
Environmental Health Section
P. O. Box 2091
Raleigh, North Carolina 27602

Subject: The Singer Company
Furniture Division
Plant No. 3
Lenoir, N. C.
EPA ID# NCD000604322
Part B Application

Dear Mr. Strickland:

Pursuant to our previous request for a 90 day extension of the Part B due date, your granting of an extension to July 6, 1983, and the subsequent discussion between Mr. Tom Hewitt of Sirrine Environmental Consultants and yourself regarding subject, this letter is to confirm to you our intentions for submitting the RCRA Part B Application and Continuing Hazardous Waste Management at Singer.

Our plans are as follows:

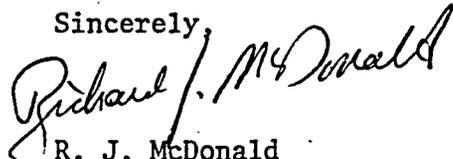
- A. Recovery: A feasibility study of burning our ignitable wastes in the boiler is being made. Active pursual of this project is likely if it is feasible. We will try to dispose of as much waste as is safe for the boiler and operator in this fashion. The project approval and completion timetable will be developed by August 1, 1983.
- B. Part B: While we hope to be able to burn most or all of our waste in the boiler, we feel we must retain our flexibility in Waste Management and deal with problem wastes that are difficult to burn in a boiler. Therefore, we are still going to pursue a Part B Permit for the incinerator. We will not, however, be able to complete the Part B Application by the July 6 date. Sirrine Environmental Consultants has begun work on our Part B and we will have it in your hands by August 17, 1983. Please understand that this time frame is the best we can do considering the approval procedures involved with a document such as the Part B in the Singer Corporate organization.

Mr. O. W. Strickland, Head
June 30, 1983
Page Two

We feel that the foregoing intentions and our past actions of compliance with RCRA demonstrate our diligence and commitment to meeting RCRA requirements. We are working closely with Serrine to achieve the most expedient completion of the Part B Application.

Thank you for working with us in the common interest of meeting the goals of RCRA.

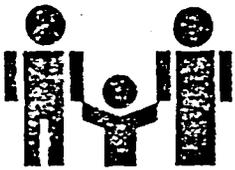
Sincerely,



R. J. McDonald
Safety Engineering Manager

RJMcD/mss

cc: J. Don Wise
Dana Crump
Austin Shepherd
Tom Hewitt, Serrine



Jerry

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

July 15, 1983

Mr. R. J. McDonald
Safety Engineering Manager
Singer Furniture
P.O. Box 1588
Lenoir, N. C. 28645

Dear Mr. McDonald:

On November 29, 1982, a notice was mailed to you from this Branch that Singer Furniture was to submit by May 29, 1983, an application for a permit to continue operation of a hazardous waste facility under Part B of the North Carolina Hazardous Waste Management Rules. On May 18, 1983, this Branch, at Singer's request, extended the deadline until July 6, 1983. (Copies of the notice, request for extension, and extension are enclosed.) The required application was not received on July 6 and has not yet been received.

You are hereby requested to immediately submit the Part B application. If it is not received by this Branch on or before July 29, an administrative penalty may be assessed and/or this Branch may consider revoking the facility's interim status.

North Carolina General Statute 130-166.21(E) authorizes penalties of up to \$10,000 per day for each day that a violation of the Hazardous Waste Management Rules continues. I urge you to submit the application. It is not my desire to assess a penalty or revoke interim status.

Respectfully,

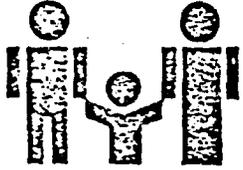
O. W. Strickland

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

GD:ct

Enclosures

cc: Bob Apple



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

November 29, 1982

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FACILITY CONTACT NAME	Mr. Mike Matthews
FACILITY NAME	Singer Company
FACILITY ID NUMBER	NC000604322
MAILING ADDRESS	P.O. Box 1588 Lenoir, NC 28645

Dear Mr. Matthews:

The United States Environmental Protection Agency has granted the State of North Carolina Solid and Hazardous Waste Management Branch Interim Authorization for Phase II Components A and B to operate the State's Hazardous Waste Management program in lieu of the Federal Program under the RCRA.

This letter constitutes a formal request for Part B of your application for a hazardous waste facility permit for (X) storage (X) treatment (X) containers (X) tanks () waste piles (X) incinerator. This request is made under the authority of North Carolina Administrative Code 10F .0034(b)(2) which adopts by reference 40 CFR 122.22(a).

Enclosed is a copy of the regulation which sets forth the information required in the Part B application for your facility. Four copies of the completed Part B application must be submitted to the Solid and Hazardous Waste Management Branch no later than six months (180 days) from the date of this request.

The mailing address for submission of the Part B application is:

O. W. Strickland, Head
Solid and Hazardous Waste Management Branch
Environmental Health Section
Department of Human Resources
P.O. Box 2091
Raleigh, NC 27602

If this agency can be of assistance, please contact the Solid and Hazardous Waste Management Branch at (919) 733-2178.

Sincerely,

O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc
Enclosure

MATERIAL SAFETY DATA SHEET

Waterbase Page 2

Approved by U.S. Department of Labor "Essentially Similar" to Form (SHA-20)

Singer - Lenoir

DATE PREPARED 10-8-82

Section I — IDENTIFICATION OF PRODUCT

RELIANCE UNIVERSAL INC.

EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO. 919/883-7181

431 Progress Street

High Point, N. C.

STREET ADDRESS

CITY, STATE and ZIP CODE

PRODUCT CLASS

MANUFACTURER'S CODE IDENTIFICATION 601-D5-113

TRADE NAME
Pigmented Latex

Waterbased Edge Filler

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE		LEL	VAPOR PRESSURE
		PPM	mg/m ³		
N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

Section III — PHYSICAL DATA

MELTING RANGE 212°F VAPOR DENSITY: HEAVIER THAN AIR LIGHTER THAN AIR
 EVAPORATION RATE: FASTER THAN ETHER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 40-45 WEIGHT PER GALLON: 15.5 - 15.7 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: None FLASHPOINT: N.A. LEL: N.A.

EXTINGUISHING MEDIA

N.A.

USUAL FIRE AND EXPLOSION HAZARDS

N.A.

OSHA FIGHTING PROCEDURES

N.A.

While Reliance Universal Inc. believes that the data contained herein are accurate and derived from qualified sources the data are not to be taken as a warranty or representation for which Reliance Universal assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local laws and regulations.

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE**EFFECTS OF OVEREXPOSURE**

Skin or eye contact: Primary Irritation

EMERGENCY AND FIRST AID PROCEDURES

Splash (eyes): Flush immediately with copious quantities of water for at least 15 minutes.
 Splash (skin): Wash affected areas with water.

Section VI – REACTIVITY DATA

STABILITY UNSTABLE STABLE under normal CONDITIONS TO AVOID

INCOMPATIBILITY (Materials to avoid) conditions

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR
 CONDITIONS TO AVOID

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Wash spill with water. Use rubber gloves to avoid excessive skin contact.

WRITE DISPOSAL METHOD

In accordance with local, state and federal regulations

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

In restricted ventilation areas use Bureau of Mines approved chemical-mechanical filters designed to remove a combination of particulates, gas and vapors.

VENTILATION

Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of most hazardous ingredient in Section II below acceptable limit and LEL in Section IV below stated limit.

PROTECTIVE GLOVES Required for prolonged or repeated contact.

EYE PROTECTION Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT Prevent prolonged skin contact to contaminated clothing.

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store closed containers above 120°F.

OTHER PRECAUTIONS

Do not take internally.

CAUTION -

Above data obtained from reliable sources and assumed to be correct.
 Reliance Universal assumes no legal responsibility for same.

THRESHOLD LIMIT VALUE: Not Required for Mixtures

EFFECTS OF OVEREXPOSURE
EYE DAMAGE AND PAIN
RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS

EMERGENCY AND FIRST AID PROCEDURES
INHALATION: REMOVE PERSON FROM EXPOSURE AREA
IF BREATHING HAS STOPPED, USE MOUTH TO MOUTH RESUSCITATION
AND GET MEDICAL ATTENTION
EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES.
GET MEDICAL ATTENTION
SKIN CONTACT: REMOVE CONTAMINATED CLOTHING UNDER SAFETY SHOWER
AND DELUGE EXPOSED AREAS WITH WATER
GET MEDICAL ATTENTION

SECTION 6 REACTIVITY DATA
STABLE UNSTABLE CONDITIONS TO AVOID
X

INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS
NITROGEN OXIDES CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID
NONE MAY OCCUR
X

SECTION 7 SPILL OR LEAK PROCEDURES
ELIMINATE IGNITION SOURCES
VENTILATE AREA. AVOID BREATHING OF VAPORS
USE SELF-CONTAINED BREATHING APPARATUS OR AIR MASK
FOR LARGE SPILLS IN A CONFINED AREA
AVOID ALL PERSONAL CONTACT
REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS

WASTE DISPOSAL METHOD
Dispose in chemical disposal area or in a manner that complies with local, state and federal regulations.
Do not incinerate closed containers.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION
Use appropriate NIOSH approved respiratory device in confined areas and for spray applications.

VENTILATION	LOCAL	OTHER
Required for spraying or in a confined area.		
Ventilation equipment should be explosion proof.		ELIMINATE IGNITION SOURCES
PROTECTIVE GLOVES	NEOPRENE OR OTHER NONPOROUS	
EYE PROTECTION	CHEMICAL TYPE GOGGLES	
OTHER PROTECTIVE EQUIPMENT	NEOPRENE OR PLASTIC APRON AND PROTECTIVE CLOTHING COVERING EXPOSED SKIN AREAS	

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120 °F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106

ISSUE DATE 9-29-82

This data is based on formulation in effect at date of issue.
Consult Manufacturer on latest publications.

Mobil Chemical

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

SECTION 1

MANUFACTURER'S ADDRESS		1647 English Rd., High Point, N. C. 27261	
CHEMICAL NAME OR FAMILY		EMERGENCY TELEPHONE	
Stain		212/883-4242	
FORMULA		TRADE NAME	
N/A		435-R-107 Character Stain	

SECTION 2 HAZARDOUS INGREDIENTS

	% WT.	TLV (Units)
METHYL ETHYL KETONE	10	200 PPM
2-NITRO PROPANE	10	25 PPM
ISOBUTYL ACETATE	10	150 PPM
METHYL TERTIARY BUTYL KETONE	15	50 PPM
NAPHTHA 58 DEGREE	35	100 PPM
ISOPROPYL CELLOSOLVE	<5	NOT ESTABLISHED BY ACGIH
ISOBUTANOL	<5	50 PPM
METHYL ALCOHOL	10	200 PPM
CARBOL SOLVENT	<5	NOT ESTABLISHED BY ACGIH
CELLOSOLVE SOLVENT	<5	50 PPM

SECTION 3 PHYSICAL DATA

BOILING POINT	VAPOR PRESSURE	VAPOR DENSITY	SPECIFIC GRAVITY	% VOLATILE BY VOLUME	EVAP. RATE
167 °F	mmHg at 68 °F	(AIR = 1.0)	(H ₂ O = 1.0)		(BUTYL ACET = 1)
	58.22	2.8	0.81	100	3.22
SOLUBILITY IN WATER: NO					
APPEARANCE AND ODOR: NORMAL FOR A PAINT OR COATING TYPE PRODUCT					

SECTION 4 FIRE AND EXPLOSION HAZARD

FLASH POINT	FLAMMABLE LIMITS		EXTINGUISHING MEDIA
TCC/PM °F	LEL	UEL	
35	0.8	36.0	CARBON DIOXIDE, DRY CHEMICAL FOAM, AND/OR WATER FOG
SPECIAL FIRE FIGHTING PROCEDURES			
Fire fighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.			
UNUSUAL FIRE AND EXPLOSION HAZARDS			
NONE			

The furnishing of the information contained herein does not constitute a representation by Mobil that any product or process is free from patent infringement claims of any third party nor does it constitute the granting of a license under any patent of Mobil or any third party. Mobil assumes no liability for any infringement which may arise out of the use of the product. Mobil warrants that its products meet the specifications which it sets for them. Mobil DISCLAIMS ALL OTHER WARRANTIES relating to the products, and DISCLAIMS ALL WARRANTIES RELATING TO THEIR APPLICATION, express or implied, INCLUDING but not limited to warranties of MERCHANTABILITY and FITNESS for particular purpose. Receipt of product from Mobil's Chemical Coatings Division constitutes acceptance of the terms of this Warranty, contrary provisions of purchase orders notwithstanding. In the event that Mobil finds that products delivered are off-specification, Mobil will, at its sole discretion, either replace the products or refund the purchase price thereof, and Mobil's choice of one of these remedies shall be Buyer's sole remedy. Mobil will under no circumstances be liable for consequential damages, except insofar as liability is mandated by law. Mobil will deliver products at



MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME CALGON COMMERCIAL DIVISION		EMERGENCY TELEPHONE NO. (314) 862-2000
ADDRESS (Number, Street, City, State, and ZIP Code) 7501 PAGE AVE, ST. LOUIS, MISSOURI 63166		
CHEMICAL NAME AND SYNONYMS Peelable film		TRADE NAME AND SYNONYMS [REDACTED]
CHEMICAL FAMILY Vinyl film	FORMULA Multi-Component Solution	

SECTION II - HAZARDOUS INGREDIENTS

	%	TLV (Units)
Toluol (Toluene) - (200 ppm human ihl TCL ₀)	58	100 ppm
Acetone - (500 ppm human ihl TCL ₀)	19	1000 ppm
VINYL RESIN < 25%; TITANIUM DIOXIDE < 5%; ESTER PLASTICIZER < 5%		
(NIOSH Regist. Tox. Eff. Chem. Sub., 1975)		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	132°F	SPECIFIC GRAVITY (H ₂ O=1)	.92-.96
VAPOR PRESSURE (mm Hg.)	185	PERCENT VOLATILE BY VOLUME (%)	77
VAPOR DENSITY (AIR=1)	Unknown	EVAPORATION RATE (Butyl Acetate)	7.7
SOLUBILITY IN WATER	Slight		
APPEARANCE AND ODOR	Solvent odor - opaque white, liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	TOC 26°F Approx.	FLAMMABLE LIMITS (Acetone)	2.6 ^{Li}	12.8 ^{Uel}
EXTINGUISHING MEDIA	Foam, CO ₂ , dry chemical			
SPECIAL FIRE FIGHTING PROCEDURES	Exercise caution when fighting any chemical fire. Respiratory protection is essential.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	Highly flammable. Toluene emits toxic fumes when heated.			

Only ingredients exhibiting a particular hazard will be listed on this form. Chemicals not classified as hazardous according to OSHA Guidelines as they are specified in 29 CFR, 1915.2 or 1916.2 will not be listed although one or more may be a constituent of this product.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

Effects may range from skin and eye irritation to brain and stomach disorders.

EMERGENCY AND FIRST AID PROCEDURES

EYE: In case of contact flush with plenty of water for at least 15 minutes. Call a physician.

SKIN: In case of contact flush with plenty of water for at least 15 minutes. If irritation develops call a physician.

INTERNAL: If swallowed, do NOT induce vomiting. Call a physician.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Heat, flame, and sparks.
	STABLE	X	

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Toxic fumes upon heating

HAZARDOUS POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

CONDITIONS TO AVOID

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Absorb spill. Evaporate in a chemical hood. Dispose of residue with solid wastes.

WASTE DISPOSAL METHOD

Disposal of this product should be in adherence with the above described (or similarly approved) disposal procedure. All waste disposal should be in accordance with Federal, State and Local Regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

NIOSH approved chemical cartridge respirator for organic vapors.

VENTILATION

LOCAL EXHAUST

MECHANICAL (General)

Recommended

SPECIAL

OTHER

PROTECTIVE GLOVES

Rubber

EYE PROTECTION

Goggles

OTHER PROTECTIVE EQUIPMENT

Protective clothing

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with eyes, skin and clothing. Use only with adequate ventilation that will reduce levels of air contaminants below that which causes personal injury or illness. Wash thoroughly after handling.

OTHER PRECAUTIONS

Exercise caution when storing and handling chemical substances.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, CALGON CORPORATION MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

Section I

MANUFACTURER'S NAME / Inmont Corporation
 STREET ADDRESS Highway 70 West CITY, STATE, AND ZIP CODE Morganton, N.C. 28655
 P. O. Drawer 1297
 EMERGENCY TELEPHONE NO. Corporate 201-365-3513
 Information Telephone No. 704-584-1771
 PRODUCT CLASS Pigmented Modified Resin Ester MANUFACTURER'S CODE IDENTIFICATION W13YM335
 TRADE NAME Leg Toner

Section II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT By Wgt.	TLV		LEL	VAPOR PRESSURE @ 20°C
		PPM	MG/M ³		
Toluene U220	15.0	100	375	1.2	22.0
VM&P Rule 66 D001	5.0	500	-	1.2	15.0
Isopropyl Alcohol D001	5.0	400	980	2.0	33.0
Isobutyl Isobutyrate D001 less than 5	-	-	-	1.0	3.8
Isobutyl Acetate D001	5.0	150	700	1.4	12.8
Lactol Spirits D001	20	300	-	1.0	38.0
Methanol D001	15.0	200	262	7.3	97.0
Acetone U002	5.0	740	1780	2.6	187.0
Tertiary Butyl Alcohol D001 less than 5	-	100	300	-	-
Methyl Ethyl Ketone U159	1.0	200	590	1.8	71.0
Ethyl Alcohol D001	5.0	1000	1900	3.3	45.0

Section III - PHYSICAL DATA

BILING RANGE 134-291°F. VAPOR DENSITY HEAVIER LIGHTER THAN AIR
 EVAPORATION RATE FASTER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 93 WEIGHT PER GALLON 7.49

Section IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Classification Class IB FLASH POINT 0°F. LEL See Section II
 Flammable Liquid
 EXTINGUISHING MEDIA Dry Chemical, Carbon Dioxide, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Avoid areas where static may be generated. Closed containers may explode when exposed to extreme heat. Use water spray to cool containers.

FIRE FIGHTING PROCEDURES Fight as volatile liquid fire. In closed areas, recommend full protective equipment be worn including self-contained breathing apparatus to protect from any hazardous combustion products.

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

SECTION 1

MANUFACTURER'S ADDRESS 1647 English Rd., High Point, N.C. 27261	
CHEMICAL NAME OR FAMILY Stain	EMERGENCY TELEPHONE 212/883-4242
FORMULA N/A	TRADE NAME 408-N-793 Via Roma Stain

SECTION 2 HAZARDOUS INGREDIENTS

	% Wt.	TLV (Units)
METHYL CELLOSOLVE	<5	25 PPM
CARBOL SOLVENT	<5	NOT ESTABLISHED BY ACGIH
METHYL ALCOHOL	75	200 PPM
TOLUENE	20	100 PPM

SECTION 3 PHYSICAL DATA

BOILING POINT °F	VAPOR PRESSURE mmHg at 68 °F	VAPOR DENSITY (AIR = 1.0)	SPECIFIC GRAVITY (H ₂ O = 1.0)	% VOLATILE BY VOLUME	EVAP. RATE (BUTYL ACET = 1)
151	87.20	1.3	0.82	100	2.14

SOLUBILITY IN WATER: YES

APPEARANCE AND ODOR:
NORMAL FOR A PAINT OR COATING TYPE PRODUCT

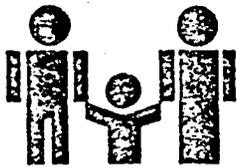
SECTION 4 FIRE AND EXPLOSION HAZARD

FLASH POINT TCC/PM °F	FLAMMABLE LIMITS		EXTINGUISHING MEDIA CARBON DIOXIDE, DRY CHEMICAL, FOAM, AND/OR WATER FOG.
	LEL	UEL	
50	1.2	36.5	

SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters must wear self contained breathing apparatus or air masks.
Containers exposed to fire should be kept cool with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
NONE

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Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

William

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

July 19, 1982



Mr. Mike Matthews
Singer Company - Furniture
Division Plant 3,4
P.O. Box 1588
Lenoir, NC 28645

NET000604322

Dear Mr. Matthews:

On June 16, 1982 Mr. Robert Apple of the Solid and Hazardous Waste Management Branch conducted a RCRA re-inspection of your facility. You were found to be in compliance with the standards.

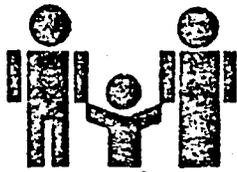
This office wishes to thank you for your cooperation and please do not hesitate to contact us if we may be of future assistance.

Sincerely,

J. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

cc: Mr. Bob Apple



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
WESTERN REGIONAL OFFICE
Building 3
Black Mountain, N.C. 28711
(704) 669-3349

July 14, 1982



TO: William Paige
Environmental Chemist

FROM: Robert M. Apple *RMA*
District Sanitarian

RE: RCRA Reinspections

The following companies were reinspected on the dates noted and found to be in full compliance with interim status standards.

<u>FACILITY</u>	<u>EPA ID Number</u>	<u>Reinspection Date</u>
<i>Tommy</i> Broyhill Furniture	NCD003162336	5/12/82
<i>Loggin</i> Broyhill Furniture	NCT380010058	5/12/82
<i>Dan Hatley</i> Kincaid Furniture	NCD051324093	4/27/82
<i>Mike Mathews</i> Singer Co. Furniture 5, 6, 7	NCD062568035	6/16/82
Singer Co. Furniture	NCT000604330	6/16/82
Singer Co. Furniture	<u>NCT000604322</u>	6/16/82
<i>Todd Dayman</i> Carter-Weber, Inc. Hickory	NCT000648428	5/6/82
Premium Coatings, Inc.	NCD066304627	Delisted
Burlington Furniture Home	NCD048184451	Plant closed
S&W Chemicals, Inc.	NCD048184451	Extension given by our office

RMA/dgh



NCT 000604322

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTORDIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

February 24, 1982

Mr. Mike Matthews
Singer Company Furniture
Division (3,4,& MH)
P.O. Box 1588
Lenoir, NC 28645

Dear Mr. Matthews:

On January 28, 1982 Mr. Robert Apple of the Solid and Hazardous Waste Management Branch conducted a RCRA inspection of your facility. The following violations were noted:

1. 262.20 Manifest. Manifests must accurately indicate identification and waste information description.
2. 262.30 Containers. A few leaking, corroding drums needed repackaging.
3. 262.31 Labeling. DOT shipping descriptions needed on a few drums.
4. 262.34 Labeling. Drums must be properly labeled.
5. 262.40 Recordkeeping. Test results of hazardous waste streams must be kept on file for three years.
6. 265.16d(1-2-3) Personnel Training Records. Documentation of job titles, description of training and records of training needed in files.
7. 265.17 Requirements for Ignitable Waste. Hazardous waste must be properly handled in the storage area.
8. 265.15(a) Inspection Requirements. Inspections must include monitoring for malfunctions, operator errors, discharges.
9. 265.15(b)(1)(2) Inspection Requirements. A written inspection schedule for monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment must be provided. An inspection log must be provided.
10. 265.13 General Waste Analysis Plan. The general waste analysis plan must include test methods, sampling methods and frequency of re-view or repeat of waste analysis.
11. 265.14(c) Security. Danger Signs must be posted at entrance to facility.
12. 265.32(a)(b) Preparedness & Prevention. An alarm system and telephone or 2-way radio needed at facility.
13. 265.33 Equipment Testing. As required, emergency response equipment must be tested and maintained.
14. 265.34 Access to Communications. Incinerator staff must have immediate access to emergency communications equipment.

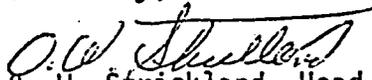


15. 265.37 Arrangements with Local Authorities. Attempts must be made to establish emergency response arrangements with local emergency response organizations requested to respond in the event of an emergency.
16. 265.52(c)(d)(e)(f) Contingency Plan. Company contingency plan needs to document local agreements, identify the emergency coordinators, provide an emergency equipment list and provide an evacuation plan.
17. 265.53 Contingency Plan. Copies of the completed contingency plan must be submitted to emergency response organizations.
18. 265.55 Contingency Plan. The emergency coordinator must be identified and qualifications verified.
19. 265.56 Contingency Plan. Emergency procedures must be provided in the contingency plan.
20. 265.71 Manifest - Recordkeeping. Several past shipment manifests were not properly filled out.
21. 265.72 Manifest Discrepancies. Information on manifests must accurately identify generator, transporter and TSD.
22. 265.73 Operating Record. Company did not provide an operating record.
23. 265.110 - 265.112 Closure Plan. Company did not provide a closure plan.
24. 265.171 Containers. Leakage of containers and evidence of past leakage were noted in storage area.
25. 265.173 Containers. Several containers were not properly closed during storage.
26. 265.174 Containers. No weekly inspection of storage area was provided by company.
27. 265.347(a)(1-2-3) Incinerator Inspections. Inspections of existing instruments, stack plume emissions, and associated equipment of incinerator were not provided.
28. 265.351 Incinerator Closure Plan. Company did not have a closure plan for the incinerator.

A compliance date of May 22, 1982 was established.

If you have any questions concerning this matter, please contact
Mr. William Paige, Environmental Chemist at (919) 733-2178.

Sincerely,


O. W. Strickland, Head
Solid & Hazardous Waste Management Branch
Environmental Health Section

OWS:nlc

cc: Mr. Robert Apple



DIVISION OF HEALTH SERVICES
WESTERN REGIONAL OFFICE
Building 3
Black Mountain, N.C. 28711
(704) 669-3349



Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

February 19, 1982

TO: O. W. Strickland, Head
Solid & Hazardous Waste Mgt.

FROM: Bob Apple, District Sanitarian
Western Regional Office *RAM*

RE: Interim Status Inspection of: Singer Company Furniture Division
(3, 4, & MH)
P. O. Box 1588, Lenoir, NC 28645
Contact: Mike Matthews, Engineer
Dick McDonald, Engineer

The following violations of ISS for Singer Company Furniture Division (3, 4, & MH) were identified during an inspection of January 28, 1982:

1. 262.20 Manifest. Manifests must accurately indicate identification and waste information description.
2. 262.30 Containers. A few leaking, corroding drums needed repackaging.
3. 262.31 Labeling. DOT shipping descriptions needed on a few drums.
4. 262.34 Labeling. Drums must be properly labeled.
5. 262.40 Recordkeeping. Test results of hazardous waste streams must be kept on file for three years.
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7. 265.17 Requirements for Ignitable Waste. Hazardous waste must be properly handled in the storage area.
8. 265.15(a) Inspection Requirements. Inspections must include monitoring for malfunctions, operator errors, discharges.
9. 265.15(b)(1)(2) Inspection Requirements. A written inspection schedule for monitoring equipment, safety and emergency equipment, security devices, and operating and structural equipment must be provided. An inspection log must be provided.

10. 265.13 General Waste Analysis Plan. The general waste analysis plan must include test methods, sampling methods and frequency of review or repeat of waste analysis.
 11. 265.14(c) Security. Danger Signs must be posted at entrance to facility.
 12. 265.32(a)(b) Preparedness & Prevention. An alarm system and telephone or 2-way radio needed at facility.
 13. 265.33 Equipment Testing. As required, emergency response equipment must be tested and maintained.
 14. 265.34 Access to Communications. Incinerator staff must have immediate access to emergency communications equipment.
 15. 265.37 Arrangements with Local Authorities. Attempts must be made to establish emergency response arrangements with local emergency response organizations requested to respond in the event of an emergency.
 16. 265.52(c)(d)(e)(f) Contingency Plan. Company contingency plan needs to document local agreements, identify the emergency coordinators, provide an emergency equipment list and provide an evacuation plan.
 17. 265.53 Contingency Plan. Copies of the completed contingency plan must be submitted to emergency response organizations.
 18. 265.55 Contingency Plan. The emergency coordinator must be identified and qualifications verified.
 19. 265.56 Contingency Plan. Emergency procedures must be provided in the contingency plan.
 20. 265.71 Manifest - Recordkeeping. Several past shipment manifests were not properly filled out.
 21. 265.72 Manifest Discrepancies. Information on manifests must accurately identify generator, transporter and TSD.
 22. 265.73 Operating Record. Company did not provide an operating record.
 23. 265.110 - 265.112 Closure Plan. Company did not provide a closure plan.
 24. 265.171 Containers. Leakage of containers and evidence of past leakage were noted in storage area.
 25. 265.173 Containers. Several containers were not properly closed during storage.
 26. 265.174 Containers. No weekly inspection of storage area was provided by company.
- (U.S.)

O. W. Strickland
RE: Singer (3,4, & MH)
Page 3

27. 265.347(a)(1-2-3) Incinerator Inspections. Inspections of existing instruments, stack plume emissions, and associated equipment of incinerator were not provided.
28. 265.351 Incinerator Closure Plan. Company did not have a closure plan for the incinerator.

The following compliance schedule was agreed upon by Singer Furniture Division (3, 4, & MH) and Bob Apple:

All violations to be ~~corrected by May 22, 1982~~

RMA/dgh

RCRA INSPECTION REPORT

Facility Description

Singer Company Furniture Division (3, 4, & MH)
P. O. Box 1588, Lenoir, NC 28645
(Caldwell County)
EPA ID #NCT000604322

Facility Contact

Mike Matthews, Engineer
Dick McDonald, Engineer

Survey Participants

Bob Apple, District Sanitarian

Date of Inspection

January 28, 1982

Applicable Regulations

40 CFR Parts 262 and 265, FR May 19, 1980 and amendments

Purpose of Survey

RCRA compliance inspection was conducted at the Singer Company Furniture Division (3, 4, & MH) by the N. C. Solid & Hazardous Waste Mgt. Branch. The inspection was conducted to review ISS. The inspection was comprehensive in nature including record review, interviews and site survey. Regulatory requirements covered included those contained in 40 CFR Parts 262 and 265 for generators, general facility standards, storage facilities and incineration.

Facility Description

This plant is located in Lenoir, NC on approximately 60 acres of property. The facility consists of three plants which manufacture and store dining room furniture. The plants are surrounded by fencing. On this property is an incinerator and storage area which are used exclusively for burning furniture wastes. These wastes consist of flammable solids, flammable sludges, and liquids from wash water spray booths. The storage area at the time of this inspection had approximately 300 drums (55-gallon) of flammable solids and sludges on the property. In addition, a 6,000-gallon tank is located in this storage area. The tank is used to hold wash water spray booth liquids which are pumped into the incinerator. This material is not a hazardous waste, but due to solid contents cannot be handled in a municipal sewer system. The liquid is actually used to lower the temperatures of the incinerator while incinerating flammable wastes. The storage area is approximately 200 ft. long by 300 ft. in size. The wastes generated by the three plant complex are either burned at the incinerator or recovered. Recovered materials are solvents used in finishing furniture and are recovered by Carolina Solvents, Inc.

Environmental Permits in addition to RCRA include air quality permits on stack discharges from the plants.

INSPECTION FORM FOR INTERIM STATUS STANDARDS FOR
OWNER/OPERATOR OF HAZARDOUS WASTE MANAGEMENT
FACILITIES

Singer Co. Furn. Division (pt. 34 & M.H.) NCT000604322, Caldwell
 Name of Site EPA I.D. County
P.O. Box 1588, Lenoir, N.C. 28645
 Location Calvin M. ... Signature of Facility Contact
1/28/82 Date Bob ... Signature of Inspector(s)

INSTRUCTIONS: Place a check to indicate Compliance (C), NonCompliance (NC) or Not Applicable (NA). Cite specific violation by Section No.

	C	NC	NA	Violation(s)
1. GENERAL	—	—	—	262.31, 262.34 262.20, 262.30
2. GENERAL FACILITY STANDARDS	—	✓	—	265.16(a)(1-3), 265.17 265.15(a)(1-3), 265.12, 265.13, 265.14
3. PREPAREDNESS AND PREVENTION	—	✓	—	265.32(a)(6), 265.37 265.33, 265.34
4. CONTINGENCY PLAN AND EMERGENCY PROCEDURES	—	✓	—	265.53, 265.55, 265.5 265.52(c)(d)(e)(f)
5. MANIFEST SYSTEM, RECORDKEEPING, AND REPORTING	—	✓	—	262.40 265.71, 265.72, 265.74, 265.7
6. GROUND-WATER MONITORING	—	—	✓	—
7. CLOSURE AND POST-CLOSURE	—	✓	—	265.110-112
8. FINANCIAL REQUIREMENTS	—	—	✓	—
9. USE AND MANAGEMENT OF CONTAINERS	—	✓	—	265.173, 265.174 265.172 , 265.171
10. TANKS	—	—	—	TO BE EVALUATED AT LATER DATE
11. SURFACE IMPOUNDMENTS	—	—	✓	—
12. WASTE PILES	—	—	✓	—
13. LAND TREATMENT	—	—	✓	—
14. LANDFILLS	—	—	✓	—
15. INCINERATORS	—	✓	—	265.351 265.347(a)(1-2)(3)
16. THERMAL TREATMENT	—	—	✓	—
17. CHEMICAL, PHYSICAL, AND BIOLOGICAL TREATMENT	—	—	✓	—
18. UNDERGROUND INJECTION	—	—	✓	—

Generator, TSD (Storage, Treatment),
 Compliance Date 90 Days From Receipt of YES NO
 Letter. (May 22, 1982) Imminent hazard () (✓)

THRESHOLD LIMIT VALUE SECTION 5 Not Required for Mixtures

EFFECTS OF OVEREXPOSURE

EYE DAMAGE AND PAIN
RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE PERSON FROM EXPOSURE AREA.
IF BREATHING HAS STOPPED, USE MOUTH TO MOUTH RESUSCITATION
AND GET MEDICAL ATTENTION

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES.
GET MEDICAL ATTENTION

SKIN CONTACT: WASH WITH SOAP AND WATER

SECTION 6 REACTIVITY DATA

STABLE	UNSTABLE	CONDITIONS TO AVOID
X		

INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS

NITROGEN OXIDES CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

NONE	MAY OCCUR

SECTION 7 SPILL OR LEAK PROCEDURES

ELIMINATE IGNITION SOURCES
VENTILATE AREA. AVOID BREATHING OF VAPORS.
USE SELF-CONTAINED BREATHING APPARATUS OR AIR MASK
FOR LARGE SPILLS IN A CONFINED AREA.
AVOID ALL PERSONAL CONTACT
REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS

WASTE DISPOSAL METHOD

Dispose in chemical disposal area or in a manner that complies with local, state and federal regulations.
Do not incinerate closed containers.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray applications.

VENTILATION

LOCAL

OTHER

Required for spraying or in a confined area.

Ventilation equipment should be explosion proof.

ELIMINATE IGNITION SOURCES

PROTECTIVE GLOVES

USUAL HAND PROTECTION FOR PAINT APPLICATION

EYE PROTECTION

CHEMICAL TYPE GOGGLES

OTHER PROTECTIVE EQUIPMENT

USUAL CLOTHING FOR PAINTING OPERATIONS

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120 °F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106

ISSUE DATE 8-18-81

This data is based on formulation in effect at date of issue.
Consult Manufacturer on current publications.

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-201

DATE PREPARED 2/17/81

Manufacturer - Lenoir

Section I — IDENTIFICATION OF PRODUCT

Reliance Universal Inc.

EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO. 919/883-7181

31 Progress Street

High Point, N. C.

Street Address

CITY, STATE and ZIP CODE

Product Class

MANUFACTURER'S CODE IDENTIFICATION 372-Y5-1144

Modified Vinyl

Trade Name

1/C Strip Coater

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE		LEL	VAPOR PRESSURE
		PPM	mg/m ³		
Benzene	<5%				
Toluene	<5%				
Ethanol	<5%				
Butanone	30-40				
Acetic Acid Butyl Ester	25-35				
Heptanone 2-6 Dimethyl	<5%				
See Master Supplement					

Section III — PHYSICAL DATA

Boiling Range 174°F-343°F

VAPOR DENSITY: HEAVIER THAN AIR LIGHTER THAN AIR

Evaporation Rate: FASTER THAN ETHER SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 75-85

WEIGHT PER GALLON: 7.5-7.7 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification

FLASHPOINT

LEL

Flammable Liquid Class 1B

23°F C.C.

.8

Extinguishing Media

Alcohol foam, dry chemical, CO₂

Unusual Fire and Explosion Hazards

It may produce CO, CO₂ and oxides of nitrogen

Special Fire Fighting Procedures

Use NIOSH approved full-face self-contained breathing apparatus to enter fire area

While Reliance Universal Inc. believes that the data contained herein are accurate and derived from qualified sources the data are not to be taken as a warranty or representation for which Reliance Universal assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local laws and regulations.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Applicable to single item only - See Section II for mixtures.

EFFECTS OF OVEREXPOSURE:

ROUTE: Inhalation can cause headache, nausea, dizziness or eventual unconsciousness.

CHRONIC: Eye Contact - Local irritation (smarting, watering)
Skin Contact - Local irritation (dryness, itching, burning)
Long term over exposure suspected of causing liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION - Move victim immediately to fresh air. Aid breathing. Call doctor.

EYE CONTACT - Flush eye(s) immediately and thoroughly with water. Call doctor.

SKIN CONTACT - Remove contaminated clothing. Wash part(s) immediately and thoroughly with soap and water. See doctor if irritation persists.

Section VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE CONDITIONS TO AVOID: Sparks, heat, flame

INCOMPATIBILITY (Materials to Avoid): Oxidants (bleaches, sulfuric and nitric acids)

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning may produce Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID:

Do not spray lacquer products and oxidizing glazes, wiping stains, etc. in same booth.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up spills with inert material (rags, sawdust, sweeping compound) and/or scrape up with non-sparking (brass, aluminum, wood, plastic or rubber) tools. Put in covered metal container to await disposal.

WASTE DISPOSAL METHOD:

Incineration or other locally approved method. DO NOT INCINERATE IN CLOSED CONTAINER.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In concentrations greater than the TLV, use NIOSH approved respirator with acid-gases, organic vapors, particulate matter cannister type (ABE).

VENTILATION:

Local exhaust to maintain work space, concentration well below the TLV in Section V.

PROTECTIVE GLOVES: Rubber or plastic coated.

EYE PROTECTION: Face shield or splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT:

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers. Keep from sparks, heat or flames. Transfer only between electrically grounded containers and equipment.

DOL STORAGE CATEGORY:

OSHA 1910.106

OTHER PRECAUTIONS:

Avoid prolonged or repeated inhalation or skin contact.

Use and store only in well-ventilated spaces.

Wash contaminated clothing before re-using.

Wet down all wiping cloths with water after use to prevent possible spontaneous combustion.

Wet down scrapings from spray booth. Clean up operation with water to prevent possible spontaneous combustion.

MATERIAL SAFETY DATA SHEET

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

SECTION 1	
MANUFACTURER'S ADDRESS 1647 English Pk., High Point, N. C. 27261	
CHEMICAL NAME OR FAMILY Lacquer Toner	EMERGENCY TELEPHONE 212/883-4242
FORMULA N/A	TRADE NAME 344-G-70 Green Lacquer Toner

SECTION 2 HAZARDOUS INGREDIENTS			
	% WT.	TLV (Units)	
ISOBUTYL ACETATE	<5	150	PPM
2 HEPTANONE	<5	100	PPM
TOLUENE	45	100	PPM
ISOPROPRANOL 99%	10	400	PPM
METHYL ALCOHOL	10	200	PPM
LIMETHYL KETONE	10	999	PPM
METHYL ETHYL KETONE	20	200	PPM

SECTION 3 PHYSICAL DATA					
BOILING POINT °F	VAPOR PRESSURE mmHg at 68 °F	VAPOR DENSITY (AIR = 1.0)	SPECIFIC GRAVITY (H ₂ O = 1.0)	% VOLATILE BY VOLUME	EVAP. RATE (BUTYL ACET = 1)
162	80.20	2.4	0.83	100	3.20
SOLUBILITY IN WATER NO					
APPEARANCE AND ODOR NORMAL FOR A PAINT OR COATING TYPE PRODUCT					

SECTION 4 FIRE AND EXPLOSION HAZARD			
FLASH POINT TCC/PM °F	FLAMMABLE LIMITS		EXTINGUISHING MEDIA CARBON DIOXIDE, DRY CHEMICAL, FOAM, AND/OR WATER FOG.
	LEL	UEL	
29	1.2	36.5	
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.			
UNUSUAL FIRE AND EXPLOSION HAZARDS NONE			

The furnishing of the information contained herein does not constitute a representation by Mobil that any product or process is free from patent infringement claims of any third party nor does it constitute the granting of a license under any patent of Mobil or any third party. Mobil assumes no liability for any infringement which may arise out of the use of the product. Mobil warrants that its products meet the specifications which it sets for them. Mobil DISCLAIMS ALL OTHER WARRANTIES relating to the products, and DISCLAIMS ALL WARRANTIES RELATING TO THEIR APPLICATION, express or implied, INCLUDING but not limited to warranties of MERCHANTABILITY and FITNESS for particular purpose. Receipt of products from Mobil's Chemical Coatings Division constitutes acceptance of the terms of this Warranty, contrary provisions of purchase orders notwithstanding. In the event that Mobil finds that products delivered are off-specification, Mobil will, at its sole discretion, either replace the products or refund the purchase price thereof, and Mobil's choice of one of these remedies shall be Buyer's sole remedy. Mobil will under no circumstances be liable for consequential damages, except insofar as liability is mandated by law. Mobil will deliver products at agreed times insofar as it is reasonably able to do so, but Mobil shall not be liable for failure to deliver on time when the failure is beyond its reasonable control.

FORM 1
GENERAL



ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION
Consolidated Permits Program
(Read the "General Instructions" before starting.)

EPA ID NUMBER
FNCT000604322

I. LABEL ITEMS
EPA ID NUMBER
II. FACILITY NAME
FACILITY MAILING ADDRESS
FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS
If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in areas below. If the label is complete and correct, you need not complete items I, II, V, and VI (except VI-B, which must be completed, regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

III. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through I to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements, see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK "X"		SPECIFIC QUESTIONS	MARK "X"	
	YES	FORM ATTACHED		YES	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)	X		B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	X	
C. Is this a facility which currently results in discharge to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)	X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X	Yes	F. Do you or will you inject at this facility industrial or municipal effluent below the lowest stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production; inject fluids used for enhanced recovery of oil or natural gas; or inject fluids for storage of liquid hydrocarbons? (FORM 4)	X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process; solution mining of minerals; in-situ combustion of fossil fuel; or recovery of geothermal energy? (FORM 4)	X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	X	

IV. NAME OF FACILITY

THE SINGER CO. FURNITURE DIV. P.L.T. 3, 4 & M.H.

V. FACILITY CONTACT

A. NAME & TITLE (last, first, & title) KIRBY, HAROLD, DIVISION MANAGER
B. PHONE (area code & no.) 704 728 6741

VI. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX P.O. BOX 1588
B. CITY OR TOWN LENOIR
C. STATE NC
D. ZIP CODE 28645

VII. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER 904 VIRGINIA STREET, SW
B. COUNTY NAME ALDWELL
C. CITY OR TOWN LENOIR
D. STATE NC
E. ZIP CODE 28645
F. COUNTY CODE (if known)

CONTINUED FROM THE FRONT
 SIC CODES (4-digit, in order of priority)

A. FIRST		B. SECOND	
2, 5, 1, 1 (specify)	Wooden Furniture (Case Goods)		(specify)
C. THIRD		D. FOURTH	
	(specify)		(specify)

II. OPERATOR INFORMATION

A. NAME	B. Is the name listed in Item VIII-P also the owner?
THE SINGER COMPANY	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box. If "Other" specify.)	D. PHONE (area code & no.)
FEDERAL M PUBLIC (other than federal or state) STATE S OTHER (specify) PRIVATE P	A 2 0 3 3 5 6 4 2 0 0

E. STREET OR RAIL BOX
0 STAMFORD FORUM

F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LAND
STAMFORD	CT	0 6 9 0 4	Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	B. PSD (Air Emissions from Proposed Sources)
N	G P
C. UIC (Underground Injection of Fluids)	D. OTHER (specify)
U	
E. RCRA (Hazardous Wastes)	F. OTHER (specify)
R	

MAP
 Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its hazardous waste treatment, storage, or disposal facilities; and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

III. NATURE OF BUSINESS (provide a brief description)

Manufacturer of Furniture case goods, (dining room, bedroom and living room) including rough end, machining, sanding, assembly finishing and warehousing.

III. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Don Wise - Vice President of Mfg.	<i>Joseph D. Heer</i>	11-12-80

COMMENTS FOR OFFICIAL USE ONLY

--

DESCRIPTION OF HAZARDOUS WASTES

EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES

1. PROCESS CODES:

For listed hazardous wastes: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

TE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	K 0 5 4	900	P	T 0 3 D 8 0	
2	D 0 0 2	400	P	T 0 3 D 8 0	
3	D 0 0 1	100	P	T 0 3 D 8 0	
4	D 0 0 2				included with above

FORM 1 EPA HAZARDOUS WASTE PERMIT APPLICATION
 RCRA Environmental Protection Agency Consolidated Permits Program
 (This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER
 F N C T Q Q Q 6 Q 4 3 2 2

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS
23	24	

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)

2. NEW FACILITY (Complete item below.)

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION (place an "X" below and complete item 1 above)

1. FACILITY HAS INTERIM STATUS

2. FACILITY HAS A RCRA PERMIT

III. PROCESSES - CODES AND DESIGN CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process:

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C)	T04	GALLONS PER DAY OR LITERS PER DAY
Disposal:					
INJECTION WELL	D75	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 tons per hour.

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)					1. AMOUNT	2. UNIT OF MEASURE (enter code)		
X-1	S 0 2	600	G			5					
X-2	T 0 3	20	E			6					
1	S 0 1	880	G			7					
2	S 0 2	7,000	G			8					
3	T 0 3	83.7	E			9					
4						10					

DESCRIPTION OF HAZARDOUS WASTES (continued)

USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. (enter from page 1)													
N	C	T	0	0	0	6	0	4	3	2	2	T/A	C
											6		

FACILITY DRAWING

existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

PHOTOGRAPHS

existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage; treatment or disposal areas (see instructions for more detail).

FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)						LONGITUDE (degrees, minutes, & seconds)							
3	5	5	3	4	5	0	8	1	3	3	0	0	0

II. FACILITY OWNER

A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER						2. PHONE NO. (area code & no.)							
3. STREET OR P.O. BOX						4. CITY OR TOWN			5. ST.		6. ZIP CODE		

OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Don Wise - Vice President of Mfg		11-12-80

OPERATOR CERTIFICATION

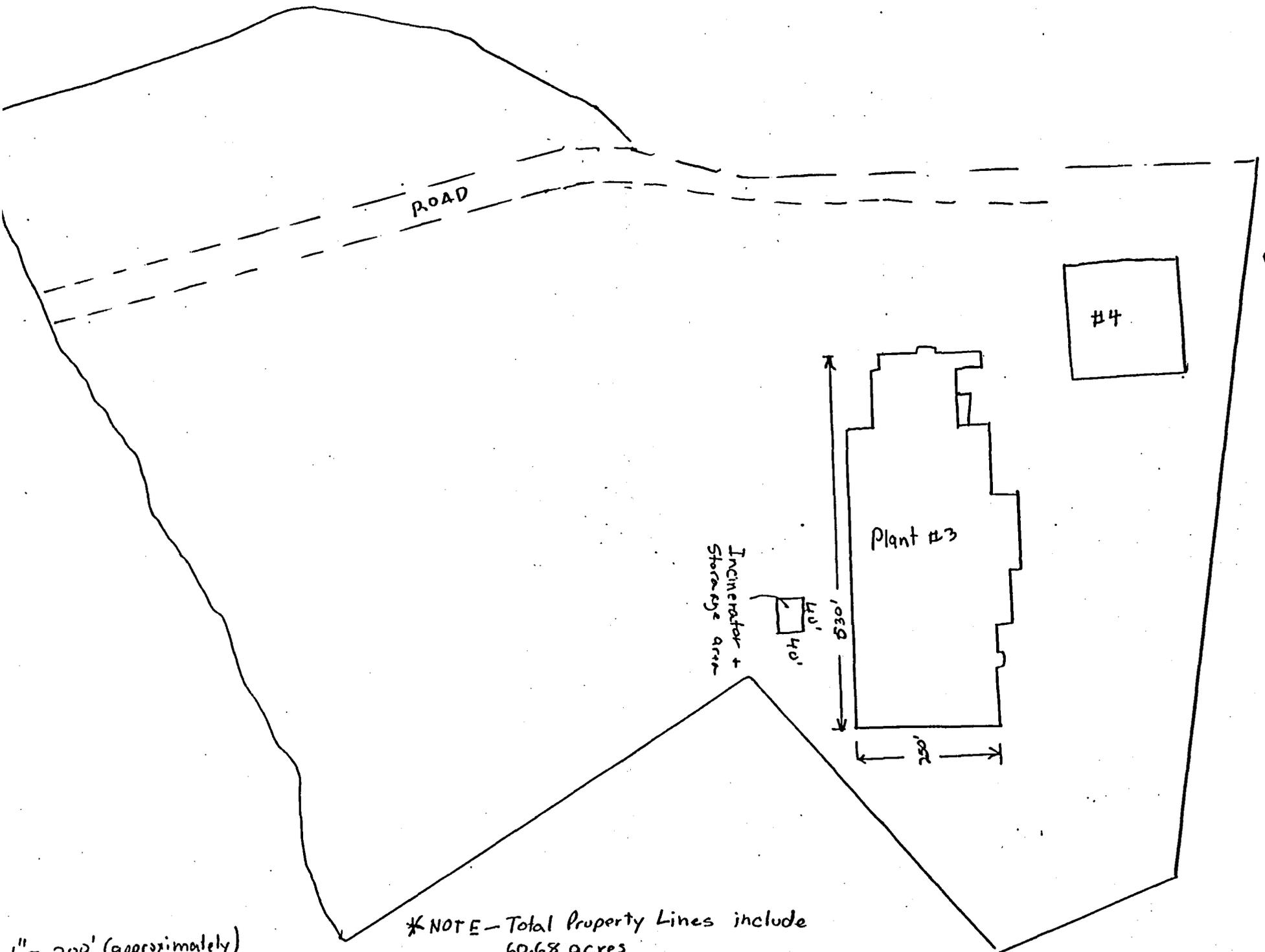
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED

OFFICE NUMBER (enter from page 1)												FOR OFFICIAL USE ONLY											
V	N	C	T	0	0	0	6	0	4	3	2	2	1	W	D	D	D	2	D	D	D	2	

V. DESCRIPTION OF HAZARDOUS WASTES (continued)

1	A. EPA HAZARD WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES									
	1	2	3	4			1	2	3	4						
1	F	0	0	2	330	T	S	0	1	S	0	2	T	0	1	
2	F	0	0	3												Included with above
3	F	0	0	5												" " "
4	D	0	0	1												" " "
5																
6																
7																
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25																
26																



1" = 200' (approximately)

*NOTE - Total Property Lines include 60.68 acres

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor Essentially Similar to Form OSHA-201

DATE PREPARED 10-29-80

inger - Lenoir - Chair Plant

Section I — IDENTIFICATION OF PRODUCT

EL **UNIVERSAL INC.**

EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO. 919/883-7181

431 Progress Street

High Point, N. C.

STREET ADDRESS

CITY, STATE and ZIP CODE

PRODUCT CLASS

MANUFACTURER'S CODE IDENTIFICATION 420-15-470

nitrocellulose Sealer

TRADE NAME
anding Sealer

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE		LEL	VAPOR PRESSURE
		PPM	mg/m ³		
Disco Lactol Spirits	35-45				
Isopropyl Alcohol	5-15				
Acetic Acid 2 Methyl Propyl	25-35				
Butanone	<5%				
Toluene	<5%				
Denatured Ethyl Alcohol	<5%				
See Master Supplement					

Section III — PHYSICAL DATA

BOILING RANGE 165°F-246°F VAPOR DENSITY: HEAVIER THAN AIR LIGHTER THAN AIR

EVAPORATION RATE: FASTER THAN ETHER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 85-95 WEIGHT PER GALLON: 6.9-7.1 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification Flammable Liquid Class 1B FLASHPOINT 20°F C.C. LEL 1.2

EXTINGUISHING MEDIA

alcohol foam, dry chemical, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS

urning may produce CO, CO₂ and oxides of nitrogen

SPECIAL FIRE FIGHTING PROCEDURES

Use NIOSH approved full-face self-contained breathing apparatus to enter fire area

While Reliance Universal Inc. believes that the data contained herein are accurate and derived from qualified sources the data are not to be taken as a warranty or representation for which Reliance Universal assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local laws and regulations.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Applicable to single item only - See Section VI for mixtures.

EFFECTS OF OVEREXPOSURE.

ACUTE: Inhalation can cause headache, nausea, dizziness or eventual unconsciousness.

CHRONIC: Eye Contact - Local irritation (smarting, watering)
Skin Contact - Local irritation (dryness, itching, burning)
Long term over exposure suspected of causing liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION - Move victim immediately to fresh air. Aid breathing. Call doctor.

EYE CONTACT - Flush eye(s) immediately and thoroughly with water. Call doctor.

SKIN CONTACT - Remove contaminated clothing. Wash part(s) immediately and thoroughly with soap and water. See doctor if irritation persists.

Section VI — REACTIVITY DATA

STABILITY. UNSTABLE STABLE CONDITIONS TO AVOID. Sparks, heat, flame

INCOMPATIBILITY (Materials to Avoid): Oxidants (bleaches, sulfuric and nitric acids)

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning may produce Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION. MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID

Do not spray lacquer products and oxidizing glazes, wiping stains, etc. in same booth.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Soak up spills with inert material (rags, sawdust, sweeping compound) and/or scrape up with non-sparking (brass, aluminum, wood, plastic or rubber) tools. Put in covered metal container to await disposal.

WASTE DISPOSAL METHOD:

Incineration or other locally approved method. DO NOT INCINERATE IN CLOSED CONTAINER.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

In concentrations greater than the TLV, use NIOSH approved respirator with acid-gases, organic vapors, particulate matter canister type (ABE).

VENTILATION

Local exhaust to maintain work space, concentration well below the TLV in Section V.

PROTECTIVE GLOVES. Rubber or plastic coated.

EYE PROTECTION: Face shield or splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers. Keep from sparks, heat or flames. Transfer only between electrically grounded containers and equipment.

DOL STORAGE CATEGORY:

OSHA 1910.106

OTHER PRECAUTIONS:

Avoid prolonged or repeated inhalation or skin contact.

Store and store only in well-ventilated spaces.

Wash contaminated clothing before re-using.

Wet down all wiping cloths with water after use to prevent possible spontaneous combustion.

Wet down scrapings from spray booth. Clean up operation with water to prevent possible spontaneous combustion.

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor "Essentially Similar" to (OSHA-20)

DATE PREPARED 5-29-80

Singer - Roanoke

Section I — IDENTIFICATION OF PRODUCT

RELIANCE UNIVERSAL INC.

EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO. 919/883-7181

1431 Progress Street

High Point, N. C.

STREET ADDRESS

CITY, STATE and ZIP CODE

PRODUCT CLASS

MANUFACTURER'S CODE IDENTIFICATION 400-HL5-528

Clear Nitrocellulose Lacquer

TRADE NAME

Doll House Spray Additive

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE		LEL	VAPOR PRESSURE
		PPM	mg/m ³		
VM&P Naphtholite 66-3	10-20				
X Toluene	5-15				
Xylene	5-15				
2 Propanol	5-15				
Ethanol	< .5%				
1 Butanol	< 5%				
X 2 Butanone	5-15				
Acetic Acid 2 Methyl Propyl Ester	15-25				
Acetic Acid Butyl Ester	10-20				

See Master Supplement

Section III — PHYSICAL DATA

BOILING RANGE 165°F-293°F VAPOR DENSITY: HEAVIER THAN AIR LIGHTER THAN AIR

EVAPORATION RATE: FASTER THAN ETHER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 87-92 WEIGHT PER GALLON: 7.2-7.3 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Flammable Liquid Class 1B FLASHPOINT: 40°F C.C. LEL: .9

EXTINGUISHING MEDIA: Alcohol foam, dry chemical, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS: Burning may produce CO, CO₂ and oxides of nitrogen

FIRE FIGHTING PROCEDURES: Use NIOSH approved full-face self-contained breathing apparatus to enter fire area

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Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE. Applicable to single item only - See Section VI for mixtures.

EFFECTS OF OVEREXPOSURE:

ACUTE: Inhalation can cause headache, nausea, dizziness or eventual unconsciousness.

CHRONIC: Eye Contact - Local irritation (smarting, watering)
Skin Contact - Local irritation (dryness, itching, burning)
Long term over exposure suspected of causing liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION - Move victim immediately to fresh air. Aid breathing. Call doctor.

EYE CONTACT - Flush eye(s) immediately and thoroughly with water. Call doctor.

SKIN CONTACT - Remove contaminated clothing. Wash part(s) immediately and thoroughly with soap and water. See doctor if irritation persists.

Section VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE CONDITIONS TO AVOID: Sparks, heat, flame

INCOMPATABILITY (Materials to Avoid): Oxidants (bleaches, sulfuric and nitric acids)

HAZARDOUS DECOMPOSITION PRODUCTS

Burning may produce Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID:

Do not spray lacquer products and oxidizing glazes, wiping stains, etc. in same booth.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED. Soak up spills with inert material (rags, sawdust, sweeping compound) and/or scrape up with non-sparking (brass, aluminum, wood, plastic or rubber) tools. Put in covered metal container to await disposal.

WASTE DISPOSAL METHOD:

Incineration or other locally approved method. DO NOT INCINERATE IN CLOSED CONTAINER.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In concentrations greater than the TLV, use NIOSH approved respirator with acid-gases, organic vapors, particulate matter canister type (ABE).

VENTILATION:

Local exhaust to maintain work space, concentration well below the TLV in Section V.

PROTECTIVE GLOVES: Rubber or plastic coated.

EYE PROTECTION: Face shield or splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT:

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING. Store in tightly closed containers. Keep from sparks, heat or flames. Transfer only between electrically grounded containers and equipment.

DOL STORAGE CATEGORY:

OSHA 1910.106

OTHER PRECAUTIONS

Avoid prolonged or repeated inhalation or skin contact.

and store only in well-ventilated spaces.

Remove contaminated clothing before re-using.

Wet down all wiping cloths with water after use to prevent possible spontaneous combustion.

Wet down scrapings from spray booth. Clean up operation with water to prevent possible spontaneous combustion.

Mobil Chemical

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

SECTION 1

MANUFACTURER'S ADDRESS		1647 English Rd., High Point, N. C. 27261	
CHEMICAL NAME OR FAMILY		EMERGENCY TELEPHONE	
Lacquer		212/883-4242	
FORMULA		TRADE NAME	
N/A		312-F-539 Lacquer Topcoat	

SECTION 2 HAZARDOUS INGREDIENTS

	% WT.	TLV (Units)
TOLUENE	5	100 PPM
XYLENE	<5	100 PPM
ISOBUTANOL	10	50 PPM
N-BUTYL ACETATE	35	150 PPM
2-NITRO-PROPANE	<5	25 PPM
1-NITRO-PROPANE	<5	15 PPM
EXEMPT V+P NAPHTHA	<5	100 PPM
ISOPROPNOL	<5	400 PPM

SECTION 3 PHYSICAL DATA

BOILING POINT °F	VAPOR PRESSURE mmHg at 68 °F	VAPOR DENSITY (AIR = 1.0)	SPECIFIC GRAVITY (H ₂ O = 1.0)	% VOLATILE BY VOLUME	EVAP. RATE (BUTYL ACET = 1)
209	19.05	3.3	0.95	79	1.39

SOLUBILITY IN WATER NO

APPEARANCE AND ODOR

NORMAL FOR A PAINT OR COATING TYPE PRODUCT

SECTION 4

FIRE AND EXPLOSION HAZARD

FLASH POINT TCC/PM °F	FLAMMABLE LIMITS		EXTINGUISHING MEDIA
	LEL	UEL	
57	1.0	12.0	CARBON DIOXIDE, DRY CHEMICAL, FOAM, AND/OR WATER FOG.

SPECIAL FIRE FIGHTING PROCEDURES

Fire fighters must wear self contained breathing apparatus or air masks.
Containers exposed to fire should be kept cool with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS

None

The furnishing of the information contained herein does not constitute a representation by Mobil that any product or process is free from patent infringement claims of any third party nor does it constitute the granting of a license under any patent of Mobil or any third party. Mobil assumes no liability for any infringement which may arise out of the use of the product. Mobil warrants that its products meet the specifications which it sets for them. Mobil DISCLAIMS ALL OTHER WARRANTIES relating to the products and DISCLAIMS ALL WARRANTIES RELATING TO THEIR APPLICATION, express or implied INCLUDING but not limited to warranties of MERCHANTABILITY and FITNESS for particular purpose. Receipt of products from Mobil's Chemical Coatings Division constitutes acceptance of the terms of this Warranty. Contrary provisions of purchase orders notwithstanding. In the event that Mobil finds that products delivered are off-specification, Mobil will, at its sole discretion, either replace the products or refund the purchase price thereof, and Mobil's choice of one of these remedies shall be Buyer's sole remedy. Mobil's liability shall not be limited by any limitation of damages or by any exclusion, limitation, or restriction of remedies in any contract, agreement, or document.

THRESHOLD LIMIT VALUE

Not Required for Mixtures

EFFECTS OF OVEREXPOSURE

EYE LAMAGE AND PAIN

RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS

EMERGENCY AND FIRST AID PROCEDURES**INHALATION:** REMOVE PERSON FROM EXPOSURE AREAIF BREATHING HAS STOPPED, USE MOUTH TO MOUTH RESUSCITATION
AND GET MEDICAL ATTENTION**EYE CONTACT:** FLUSH WITH WATER FOR 15 MINUTES.

GET MEDICAL ATTENTION

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING UNDER SAFETY SHOWER
AND DELUGE EXPOSED AREAS WITH WATER

GET MEDICAL ATTENTION

SECTION 6 REACTIVITY DATA

STABLE	UNSTABLE	CONDITIONS TO AVOID
--------	----------	---------------------

X

INCOMPATIBILITY

STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

NONE	MAY OCCUR
------	-----------

X

SECTION 7 SPILL OR LEAK PROCEDURES

ELIMINATE IGNITION SOURCES

VENTILATE AREA. AVOID BREATHING OF VAPORS

USE SELF-CONTAINED BREATHING APPARATUS OR AIR MASK

FOR LARGE SPILLS IN A CONFINED AREA

AVOID ALL PERSONAL CONTACT

REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS

WASTE DISPOSAL METHODDispose in chemical disposal area or in a manner that complies with local, state and federal regulations.
Do not incinerate closed containers.**SECTION 8 SPECIAL PROTECTION INFORMATION****RESPIRATORY PROTECTION**

Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray applications.

VENTILATION

LOCAL

OTHER

Required for spraying or in a confined area.

Ventilation equipment should be explosion proof.

ELIMINATE IGNITION SOURCES

PROTECTIVE GLOVES

NEOPRENE OR OTHER NONPOROUS

EYE PROTECTION

CHEMICAL TYPE GOGGLES

OTHER PROTECTIVE EQUIPMENT

NEOPRENE OR PLASTIC APRON AND PROTECTIVE CLOTHING

COVERING EXPOSED SKIN AREAS

SECTION IX SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 120 °F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106

ISSUE DATE 7-30-79

This data is based on formulation in effect at date of issue.
Consult Manufacturer on current publications.

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor "Essentially Similar" (OSHA-20)

DATE PREPARED 7-27-79

Singer-Lenoir

Section I — IDENTIFICATION OF PRODUCT

RELIANCE UNIVERSAL INC.

EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO. _____

1431 Progress Street

High Point, NC 27260

STREET ADDRESS

CITY, STATE and ZIP CODE

PRODUCT CLASS

MANUFACTURER'S CODE IDENTIFICATION 821-F5-307, [REDACTED]

TRADE NAME Pigmented Polyester Resins in Monomers

UV Fillers

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE PPM	mg/m ³	LEL	VAPOR PRESSURE
Benzene Ethenyl Methyl <chem>C=Cc1ccccc1C</chem>	5-15	See Master Supplement			
Benzene Ethenyl <chem>C=Cc1ccccc1</chem>	20-30				

Section III — PHYSICAL DATA

OILING RANGE 295°F-338°F VAPOR DENSITY: HEAVIER THAN AIR LIGHTER THAN AIR

VAPORATION RATE FASTER THAN ETHER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: N.A. WEIGHT PER GALLON 11.45-11.75 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification Combustible Liquid Class II FLASHPOINT 90° F.C.C. LEL 1.1

EXTINGUISHING MEDIA Alcohol foam, dry chemical, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS Burning may produce CO, CO₂

SPECIAL FIRE FIGHTING PROCEDURES

Use NIOSH approved full-face self-contained breathing apparatus to enter fire area

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Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Applicable to single item only - See Section II for mixtures.

EFFECTS OF OVEREXPOSURE:

ACUTE: Inhalation can cause headache, nausea, dizziness or eventual unconsciousness.

CHRONIC: Eye Contact - Local irritation (smarting, watering)
Skin Contact - Local irritation (dryness, itching, burning)
Long term over exposure suspected of causing liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION - Move victim immediately to fresh air. Aid breathing. Call doctor.

EYE CONTACT - Flush eye(s) immediately and thoroughly with water. Call doctor.

SKIN CONTACT - Remove contaminated clothing. Wash part(s) immediately and thoroughly with soap and water. See doctor if irritation persists.

Section VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE CONDITIONS TO AVOID: Sparks, heat, flame

INCOMPATIBILITY (Materials to Avoid): Oxidants (bleaches, sulfuric and nitric acids)

HAZARDOUS DECOMPOSITION PRODUCTS

Burning may produce Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID:

Do not spray lacquer products and oxidizing glazes, wiping stains, etc. in same booth.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up spills with inert material (rags, sawdust, sweeping compound) and/or scrape up with non-sparking (brass, aluminum, wood, plastic or rubber) tools. Put in covered metal container to await disposal.

WASTE DISPOSAL METHOD:

Incineration or other locally approved method. DO NOT INCINERATE IN CLOSED CONTAINER.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

In concentrations greater than the TLV, use NIOSH approved respirator with acid-gases, organic vapors, particulate matter canister type (ABE).

VENTILATION

Local exhaust to maintain work space, concentration well below the TLV in Section V.

PROTECTIVE GLOVES: Rubber or plastic coated.

EYE PROTECTION: Face shield or splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT:

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers. Keep from sparks, heat or flames. Transfer only between electrically grounded containers and equipment.

DOT STORAGE CATEGORY:

OSHA 1910.106

OTHER PRECAUTIONS

prolonged or repeated inhalation or skin contact.

Use and store only in well-ventilated spaces.

Wash contaminated clothing before re-using.

Wet down all wiping cloths with water after use to prevent possible spontaneous combustion.

Wet down scrapings from spray booth. Clean up operation with water to prevent possible spontaneous combustion.

anger-Lenoir

Section I — IDENTIFICATION OF PRODUCT

LIANCE UNIVERSAL INC.

EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO.

31 Progress Street

High Point, NC 27260

STREET ADDRESS

CITY, STATE and ZIP CODE

PRODUCT CLASS

MANUFACTURER'S CODE IDENTIFICATION 373-D5-1258

Fragmented Vinyl Modified N/C Lacquers

TRADE NAME

Secoats

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE		LEL	VAPOR PRESSURE
		PPM	mg/m ³		
toluene	5-15	See Master Supplement			
xylene	5-15				
propanol	20-30				
Butanol	5-15				
Butanone	5-15				
acetic Acid Butyl Ester	15-25				

Section III — PHYSICAL DATA

BOILING RANGE 74°F-285°F	VAPOR DENSITY: <input checked="" type="checkbox"/> HEAVIER THAN AIR <input type="checkbox"/> LIGHTER THAN AIR
EVAPORATION RATE: <input type="checkbox"/> FASTER THAN ETHER <input checked="" type="checkbox"/> SLOWER THAN ETHER	PERCENT VOLATILE BY VOLUME: 73-78
	WEIGHT PER GALLON: 8.9-9.3 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Flammable Liquid Class 1B
 FLASHPOINT: 23° F.C.C.
 LEL: 1.0

EXTINGUISHING MEDIA: Alcohol foam, dry chemical, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS: Burning may produce CO, CO₂ and oxides of nitrogen

RECOMMENDED FIRE FIGHTING PROCEDURES: Use SCBA approved full-face self-contained breathing apparatus to enter fire area

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Section V — HEALTH HAZARD DATA

UNIT VALUE. Applicable to single item only - See Section for mixtures.

OVEREXPOSURE:

E: Inhalation can cause headache, nausea, dizziness or eventual unconsciousness.

INC: Eye Contact - Local irritation (smarting, watering)
Skin Contact - Local irritation (dryness, itching, burning)
Long term over exposure suspected of causing liver and kidney damage.

AGENCY AND FIRST AID PROCEDURES

INHALATION - Move victim immediately to fresh air. Aid breathing. Call doctor.

EYE CONTACT - Flush eye(s) immediately and thoroughly with water. Call doctor.

SKIN CONTACT - Remove contaminated clothing. Wash part(s) immediately and thoroughly with soap and water. See doctor if irritation persists.

Section VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE CONDITIONS TO AVOID. Sparks, heat, flame

INCOMPATIBILITY (Materials to Avoid): Oxidants (bleaches, sulfuric and nitric acids)

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning may produce Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION. MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID:

Do not spray lacquer products and oxidizing glazes, wiping stains, etc. in same booth.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up spills with inert material (rags, sawdust, sweeping compound) and/or scrape up with non-sparking (brass, aluminum, wood, plastic or rubber) tools. Put in covered metal container to await disposal.

RECOMMENDED DISPOSAL METHOD:

Incineration or other locally approved method. DO NOT INCINERATE IN CLOSED CONTAINER.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In concentrations greater than the TLV, use NIOSH approved respirator with acid-gases, organic vapors, particulate matter canister type (ABE).

VENTILATION:

Local exhaust to maintain work space, concentration well below the TLV in Section V.

PROTECTIVE GLOVES: Rubber or plastic coated.

EYE PROTECTION: Face shield or splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT:

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING. Store in tightly closed containers. Keep from sparks, heat or flames. Transfer only between electrically grounded containers and equipment.

DOL STORAGE CATEGORY:

OSHA 1910.106

ADDITIONAL PRECAUTIONS:

Avoid prolonged or repeated inhalation or skin contact.

Use and store only in well-ventilated spaces.

Wash contaminated clothing before re-using.

Wet down all wiping cloths with water after use to prevent possible spontaneous combustion.

Wet down scrapings from spray booth. Clean up operation with water to prevent possible spontaneous combustion.

DATE PREPARED 7-25-79

Singerl-Lenoir

Section I — IDENTIFICATION OF PRODUCT

REL UNIVERSAL INC.EMERGENCY TELEPHONE NO. 919/883-7181

INFORMATION TELEPHONE NO. _____

431 Progress StreetHigh Point, NC 27260

STREET ADDRESS

CITY, STATE and ZIP CODE

PRODUCT CLASS

MANUFACTURER'S
CODE IDENTIFICATION 431-D5-2109APigmented N/C Lacquer

TRADE NAME

Water Stain

Section II — HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	THRESHOLD LIMIT VALUE		LEL	VAPOR PRESSURE
		PPM	mg/m ³		
msco Lactol Spirits	30-40				
toluene *	< 5-15				
M&P Naphtholite 66-3	5%				
ethanol 2 Butoxy	< .5%				
ethanol	< 5%				
propanol	10-20	See Master Supplement			
ethanol	< 5%				
Butanol	< 5%				
acetone	5-15				
Acetic Acid Ethyl Ester	< 5%				
Acetic Acid 2 Methyl Propyl Acetate	10-20				
ethanol 2 Ethoxy Acetate	< 5%				

Section III — PHYSICAL DATA

BOILING RANGE 32°F-343°F VAPOR DENSITY: HEAVIER THAN AIR LIGHTER THAN AIR

EVAPORATION RATE: FASTER THAN ETHER SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 92-97 WEIGHT PER GALLON: 6.8-6.9 lbs.

Section IV — FIRE AND EXPLOSION HAZARD DATA

Flammability Classification Flammable Liquid Class 1B FLASHPOINT 0° F.C.C. LEL .9

EXTINGUISHING MEDIA

alcohol foam, dry chemical, CO₂

UNUSUAL FIRE AND EXPLOSION HAZARDS

burning may produce CO, CO₂ and oxides of nitrogen

PPE FIGHTING PROCEDURES

use NIOSH approved full-face self-contained breathing apparatus to enter fire area

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THRESHOLD LIMIT VALUE: Applicable to single item only - See Section VI for mixtures.

EFFECTS OF OVEREXPOSURE:

'ACUTE: Inhalation can cause headache, nausea, dizziness or eventual unconsciousness.

IRONIC Eye Contact - Local irritation (smarting, watering)
Skin Contact - Local irritation (dryness, itching, burning)
Long term over exposure suspected of causing liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION - Move victim immediately to fresh air. Aid breathing. Call doctor.

EYE CONTACT - Flush eye(s) immediately and thoroughly with water. Call doctor.

SKIN CONTACT - Remove contaminated clothing. Wash part(s) immediately and thoroughly with soap and water. See doctor if irritation persists.

Section VI — REACTIVITY DATA

STABILITY: UNSTABLE STABLE **CONDITIONS TO AVOID:** Sparks, heat, flame

INCOMPATABILITY (Materials to Avoid): Oxidants (bleaches, sulfuric and nitric acids)

HAZARDOUS DECOMPOSITION PRODUCTS

Burning may produce Carbon Monoxide, Carbon Dioxide

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID:

Do not spray lacquer products and oxidizing glazes, wiping stains, etc. in same booth.

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak up spills with inert material (rags, sawdust, sweeping compound) and/or scrape up with non-sparking (brass, aluminum, wood, plastic or rubber) tools. Put in covered metal container to await disposal.

WASTE DISPOSAL METHOD

Incineration or other locally approved method. DO NOT INCINERATE IN CLOSED CONTAINER.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In concentrations greater than the TLV, use NIOSH approved respirator with acid-gases, organic vapors, particulate matter canister type (ABE).

VENTILATION:

Local exhaust to maintain work space, concentration well below the TLV in Section V.

PROTECTIVE GLOVES: Rubber or plastic coated.

EYE PROTECTION: Face shield or splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT:

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in tightly closed containers. Keep from sparks, heat or flames. Transfer only between electrically grounded containers and equipment.

DOL STORAGE CATEGORY:

OSHA 1910.106

OTHER PRECAUTIONS

Avoid prolonged or repeated inhalation or skin contact.

Store and store only in well-ventilated spaces.

Wash contaminated clothing before re-using.

Wet down all wiping cloths with water after use to prevent possible spontaneous combustion.

Wet down scrapings from spray booth. Clean up operation with water to prevent possible spontaneous combustion.

EFFECTS OF OVEREXPOSURE

EYE DAMAGE AND PAIN
 REDNESS OR DRYNESS OF SKIN
 RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE PERSON FROM EXPOSURE AREA
 IF BREATHING HAS STOPPED, USE MOUTH TO MOUTH RESUSCITATION
 AND GET MEDICAL ATTENTION.
EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES.
 GET MEDICAL ATTENTION.
SKIN CONTACT: REMOVE CONTAMINATED CLOTHING UNDER SAFETY SHOWER
 AND DELUGE EXPOSED AREAS WITH WATER
 GET MEDICAL ATTENTION

SECTION 6 REACTIVITY DATA

STABLE	UNSTABLE	CONDITIONS TO AVOID
X		

INCOMPATIBILITY: STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION PRODUCTS

CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID

NONE	MAY OCCUR
X	

SECTION 7 SPILL OR LEAK PROCEDURES

ELIMINATE IGNITION SOURCES
 VENTILATE AREA. AVOID BREATHING OF VAPORS
 USE SELF-CONTAINED BREATHING APPARATUS OR AIR MASK
 FOR LARGE SPILLS IN A CONFINED AREA
 AVOID ALL PERSONAL CONTACT
 REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS

WASTE DISPOSAL METHOD

Dispose in chemical disposal area or in a manner that complies with local, state and federal regulations.
 Do not incinerate closed containers.

SECTION 8 SPECIAL PROTECTION INFORMATIONRESPIRATORY PROTECTION

Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray applications.

VENTILATION	LOCAL	OTHER
Required for spraying or in a confined area.		
Ventilation equipment should be explosion proof.		ELIMINATE IGNITION SOURCES

PROTECTIVE GLOVES: NEOPRENE OR OTHER NONPOROUS

EYE PROTECTION: CHEMICAL TYPE GOGGLES

OTHER PROTECTIVE EQUIPMENT

NEOPRENE OR PLASTIC APRON AND PROTECTIVE CLOTHING
 COVERING EXPOSED SKIN AREAS

SECTION IX SPECIAL PRECAUTIONSPRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks, and open flames. Keep container closed when not in use. Do not store above 120 °F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106

ISSUE DATE 5-31-79

This data is based on formulation in effect at date of issue.
 Consult Manufacturer on current publications.

THRESHOLD LIMIT VALUE Not Required for Mixtu

EFFECTS OF OVEREXPOSURE

RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: REMOVE PERSON FROM EXPOSURE AREA.
IF BREATHING HAS STOPPED, USE MOUTH-TO-MOUTH RESUSCITATION
AND GET MEDICAL ATTENTION.

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES.

SKIN CONTACT: WASH WITH SOAP AND WATER.

SECTION 6 REACTIVITY DATA

STABLE	UNSTABLE	CONDITIONS TO AVOID
✓		

INCOMPATIBILITY NONE

HAZARDOUS DECOMPOSITION PRODUCTS

SULFUR OXIDES CARBON DIOXIDE AND CARBON MONOXIDE

HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID

NONE	MAY OCCUR
✓	

SECTION 7 SPILL OR LEAK PROCEDURES

VENTILATE AREA. AVOID BREATHING OF VAPORS
USE SELF-CONTAINED BREATHING APPARATUS OR AIR MASK
FOR LARGE SPILLS IN A CONFINED AREA.
AVOID CONTACT WITH EYES.
WIPE UP OR ABSORB ON SUITABLE MATERIAL AND SHOVEL UP.

WASTE DISPOSAL METHOD

Dispose in chemical disposal area or in a manner that complies with local, state and federal regulations.
Do not incinerate closed containers.

SECTION 8 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Use appropriate Bureau of Mines approved respiratory device in confined areas and for spray applications.

VENTILATION	LOCAL	OTHER
Required for spraying or in a confined area. Ventilation equipment should be explosion proof.		NONE

PROTECTIVE GLOVES USUAL HAND PROTECTION FOR PAINT APPLICATION

EYE PROTECTION USUAL EYE PROTECTION FOR APPLYING PAINT

OTHER PROTECTIVE EQUIPMENT

USUAL CLOTHING FOR PAINTING OPERATIONS

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches. Keep away from heat, sparks and open flames. Keep container closed when not in use. Do not store above 20° F. Based on the product flash point and vapor pressure suitable storage should be provided in accordance with OSHA Regulation 1910.106

ISSUE DATE

12-14-78

This data is based on formulation in effect at date of issue.
Consult Manufacturer on current publications.

Mobil Chemical

CCD 2340-(11/78)

MATERIAL SAFETY DATA SHEET

Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA 20)

SECTION 1

MANUFACTURER'S ADDRESS: 1647 English Rd., High Point, N.C. 27261	
CHEMICAL NAME OR FAMILY: Filler	EMERGENCY TELEPHONE: 212/883-4242
FORMULA: N/A	TRADE NAME: 410-M-43 Cordovan Filler

SECTION 2 HAZARDOUS INGREDIENTS

	% WT.	TLV (Units)
EXEMPT MIN. SPIRITS	15	100 PPM

SECTION 3 PHYSICAL DATA

BOILING POINT °F	VAPOR PRESSURE mmHg at 68 °F	VAPOR DENSITY (AIR = 1.0)	SPECIFIC GRAVITY (H ₂ O = 1.0)	% VOLATILE BY VOLUME	EVAP. RATE (BUTYL ACET = 1)
221	13.36	3.4	1.43	33	0.11
SOLUBILITY IN WATER: NO					
APPEARANCE AND ODOR: NORMAL FOR A PAINT OR COATING TYPE PRODUCT					

SECTION 4 FIRE AND EXPLOSION HAZARD

FLASH POINT TCC/PM °F	FLAMMABLE LIMITS		EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL FOAM, AND/OR WATER FOG.
	LEL	UEL	
114	1.0	6.0	
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters must wear self contained breathing apparatus or air masks. Containers exposed to fire should be kept cool with water spray.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE			

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