

ENVIRONMENTAL PROTECTION
27 FEB 31 AM 9:45

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Appendix A

California Hazardous Materials Inventory Reporting Form - Business Owner/Operator Identification Page

CALENDAR YEAR BEGINNING (1) 1996 ENDING (2) 1997 (3) PAGE 1 OF 54

BUSINESS NAME (4) Weyerhaeuser Paper Co BUSINESS PHONE: (5) 510-814-1147

SITE ADDRESS (6) 1801 Hibbard St.

CITY (7) Alameda STATE (8) CA ZIP (9) 94501

DUN & BRADSTREET (10) 009182361 SIC CODE (4 DIGIT #)(11) 2653

OPERATOR NAME (12) Weyerhaeuser Co. OPERATOR PHONE (13) 510-814-1147

OWNER INFORMATION

OWNER NAME (14) Weyerhaeuser Paper Co. OWNER PHONE (15) 510-814-1147

OWNER MAILING ADDRESS (16) 1801 Hibbard St.

CITY (17) Alameda Ca STATE (18) Ca ZIP (19) 94501

ENVIRONMENTAL CONTACT

CONTACT NAME (20) Dana Zehrback CONTACT PHONE (21) 814-1147(510)

MAILING ADDRESS (22) 1801 Hibbard St.

CITY (23) Alameda STATE (24) Ca ZIP (25) 94501

Primary	EMERGENCY CONTACTS	Secondary
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NAME: (26) <u>Dana Zehrback</u>	NAME: (31) <u>John Hipner</u>
TITLE: (27) <u>Maintenance Foreman</u>	TITLE: (32) <u>Production Mgr</u>
BUSINESS PHONE: (28) <u>510-814-1147</u>	BUSINESS PHONE: (33) <u>510-814-1167</u>
24-HOUR PHONE: (29) <u>415-8656-(707)</u>	24-HOUR PHONE: (34) <u>510-871-0806</u>
PAGER #: (30) <u>510-840-0658</u>	PAGER #: (35) <u>510-840-7184</u>

ACUTELY HAZARDOUS MATERIALS (AHM)

ON SITE AHM (36) Yes No If yes, and above Threshold Planning Quantities, attach a sheet of paper with a general description of the process and principal equipment.

ADDITIONAL LOCALLY COLLECTED INFORMATION

(37)

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.....

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Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this inventory and believe the information is true, accurate, and complete.

Print Name of Document Preparer (38) Dana G. Zehrback

Signature of Owner/Operator (39) [Signature] Date (40) 2/27/97

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) 2

OF (3) 54

BUSINESS NAME (4) Weyerhaeuser Paper Co
 CHEMICAL LOCATION (5) NW Behind Maintenance Shop
 MAP # 1 (6) Site Plan GRID# (7) N/A

CHEMICAL NAME (8) 141 Chevron Wax TRADE SECRET (11) Y N

COMMON NAME (9) Wax EHS (12) Y N

CAS# (10) 64742434

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13) COC 465F
ASTM D2155 Flammability = 1

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) N/A UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 10,000

DAYS ON SITE (20) 365 If EHS, amounts must be in lbs. AVG DAILY AMT (24) 4,000 → 10,000

LARGEST CONTAINER (21) 10,000 ANNUAL WASTE AMT (25) None

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE PLASTIC BOTTLE
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1		<input type="checkbox"/> Y <input type="checkbox"/> N	
2		<input type="checkbox"/> Y <input type="checkbox"/> N	
3		<input type="checkbox"/> Y <input type="checkbox"/> N	
4		<input type="checkbox"/> Y <input type="checkbox"/> N	
5		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

ALL SARA 011 CATEGORIES LISTED AS (NO)

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2)

OF (3)

BUSINESS NAME (4)

CHEMICAL LOCATION (5)

MAP# (6) GRID# (7)

CHEMICAL NAME (8) TRADE SECRET (11) Y N

COMMON NAME (9) EHS (12) Y N

CAS# (10)

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE (13)

HAZARD CLASSES (13)

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23)

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24)

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26)

<input type="checkbox"/> ABOVE GROUND TANK	<input type="checkbox"/> CAN	<input type="checkbox"/> BOX	<input type="checkbox"/> TANK WAGON
<input type="checkbox"/> UNDER GROUND TANK	<input type="checkbox"/> CARBOY	<input type="checkbox"/> CYLINDER	<input type="checkbox"/> RAIL CAR
<input type="checkbox"/> TANK INSIDE BUILDING	<input type="checkbox"/> SILO	<input type="checkbox"/> GLASS BOTTLE	<input type="checkbox"/> -----
<input type="checkbox"/> STEEL DRUM	<input type="checkbox"/> FIBER DRUM	<input type="checkbox"/> PLASTIC BOTTLE	
<input type="checkbox"/> PLASTIC/NONMETALLIC DRUM	<input type="checkbox"/> BAG	<input type="checkbox"/> TOTE BIN	

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
2 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
3 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
4 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
5 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) 3

OF (3) 54

BUSINESS NAME (4) Weyerhaeuser Paper Co
 CHEMICAL LOCATION (5) Conn Starch Area + DMP Treatment System
 MAP # 1 (6) Site Plan GRID# (7) N/A

CHEMICAL NAME (8) Sodium Hydroxide 50% TRADE SECRET (11) Y N

COMMON NAME (9) Caustic Soda EHS (12) Y N

CAS# (10) 7647-01-0 IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13) NONE

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) ORM E UNITS (22) GAL CU FT MAX DAILY AMT (23) 1,000
 LBS TONS

DAYS ON SITE (20) 360 If EHS, amounts must be in lbs. AVG DAILY AMT (24) 700-1,000

LARGEST CONTAINER (21) 1,000 ANNUAL WASTE AMT (25) None

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
2 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
3 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
4 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
5 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

NOT LISTED AS EXTREMELY HAZARDOUS SUBSTANCE UNDER SAME TITLE ##

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California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) OF (3)

BUSINESS NAME (4)
 CHEMICAL LOCATION (5)
 MAP # (6) GRID# (7)

CHEMICAL NAME (8) TRADE SECRET (11) Y N
 COMMON NAME (9) EHS (12) Y N
 CAS# (10) IF EHS BOX IS "Y"
 ALL AMOUNTS MUST BE IN LBS

FIRE CODE (13)
 HAZARD CLASSES (13)

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23)

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24)

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE _____
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
2 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
3 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
4 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
5 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) 4

OF (3) 54

BUSINESS NAME (4) Weyerhaeuser Paper Co
 CHEMICAL LOCATION (5) DMP Treatment System
 MAP # 1 (6) Site Plan GRID# (7)

CHEMICAL NAME (8) Sodium Hydroxide 30% TRADE SECRET (11) Y N

COMMON NAME (9) Caustic Soda EHS (12) Y N

CAS# (10) 7647-01-0

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13) None

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) 00M E UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 400 gal

DAYS ON SITE (20) 365 If EHS, amounts must be in lbs. AVG DAILY AMT (24) 200-400

LARGEST CONTAINER (21) 400 ANNUAL WASTE AMT (25) None

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1		<input type="checkbox"/> Y <input type="checkbox"/> N	
2		<input type="checkbox"/> Y <input type="checkbox"/> N	
3		<input type="checkbox"/> Y <input type="checkbox"/> N	
4		<input type="checkbox"/> Y <input type="checkbox"/> N	
5		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

NOT LISTED AS EXTREMELY HAZARDOUS SUBSTANCE UNDER SARA TITLE III

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) OF (3)

BUSINESS NAME (4)

CHEMICAL LOCATION (5)

MAP # (6)

GRID# (7)

CHEMICAL NAME (8) TRADE SECRET (11) Y N

COMMON NAME (9) EHS (12) Y N

CAS# (10)

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE (13)
HAZARD CLASSES

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23)

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24)

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE _____
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
2 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
3 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
4 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
5 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) 5

OF (3) 54

BUSINESS NAME (4) Weyerhaeuser Paper Co.

CHEMICAL LOCATION (5) DMP Treatment System

MAP# 1 (6) Site Plan

GRID# (7) N/A

CHEMICAL NAME (8) Ferric Chloride TRADE SECRET (11) Y N

COMMON NAME (9) Ferric Chloride EHS (12) Y N

CAS# (10) 04705-08-0

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13) Non Flammable, Health concerns when gassing off occurs

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) None UNITS (22) GAL CUFT LBS TONS MAX DAILY AMT (23) 400

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24) 200-400

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25) None

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE _____
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1		<input type="checkbox"/> Y <input type="checkbox"/> N	
2		<input type="checkbox"/> Y <input type="checkbox"/> N	
3		<input type="checkbox"/> Y <input type="checkbox"/> N	
4		<input type="checkbox"/> Y <input type="checkbox"/> N	
5		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) OF (3)

BUSINESS NAME (4)

CHEMICAL LOCATION (5)

MAP # (6) GRID# (7)

CHEMICAL NAME (8) TRADE SECRET (11) Y N

COMMON NAME (9) EHS (12) Y N

CAS# (10)

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13)

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CUFT LBS TONS MAX DAILY AMT (23)

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24)

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE -----
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
2 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
3 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
4 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
5 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) 6

OF (3) 54

BUSINESS NAME (4) Weyerhaeuser Paper Co

CHEMICAL LOCATION (5) Machines in Plant

MAP# 1 (6) Site Plan

GRID# (7) N/A

CHEMICAL NAME (8) 339012 - Reysin TRADE SECRET (11) Y N

COMMON NAME (9) Packaging Glue EHS (12) Y N

CAS# (10) 108-05-4

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13) None

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) N/A UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23) 1000

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24) 1000

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25) N/A

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
2 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
3 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
4 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>
5 <u> </u>	<u> </u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<u> </u>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2)

OF (3)

BUSINESS NAME (4)

CHEMICAL LOCATION (5)

MAP# (6)

GRID# (7)

CHEMICAL NAME (8) TRADE SECRET (11) Y N

COMMON NAME (9) EHS (12) Y N

CAS# (10)

IF EHS BOX IS "Y"
ALL AMOUNTS MUST BE IN LBS

FIRE CODE (13)
HAZARD CLASSES

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT LBS TONS MAX DAILY AMT (23)

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24)

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE _____
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
2 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
3 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
4 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
5 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) 1

OF (3) 54

BUSINESS NAME (4) Weyerhaeuser Paper Co
 CHEMICAL LOCATION (5) North Corner Shipping
 MAP # 2 (6) Site Plan GRID# (7) N/A

CHEMICAL NAME (8) Propane L.P Gas TRADE SECRET (11) Y N
 COMMON NAME (9) Propane EHS (12) Y N
 CAS# (10) 74-98-6 IF EHS BOX IS "Y" ALL AMOUNTS MUST BE IN LBS

FIRE CODE HAZARD CLASSES (13) Flammable Gas UN1075

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)

PHYSICAL STATE (17) SOLID LIQUID GAS CURIES

FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) N/A UNITS (22) GAL CUFT MAX DAILY AMT (23) 1,000
 LBS TONS

DAYS ON SITE (20) 365 If EHS, amounts must be in lbs. AVG DAILY AMT (24) 500-1,000

LARGEST CONTAINER (21) 1000 ANNUAL WASTE AMT (25) None

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE STEEL DRUM
 FIBER DRUM PLASTIC BOTTLE PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1		<input type="checkbox"/> Y <input type="checkbox"/> N	
2		<input type="checkbox"/> Y <input type="checkbox"/> N	
3		<input type="checkbox"/> Y <input type="checkbox"/> N	
4		<input type="checkbox"/> Y <input type="checkbox"/> N	
5		<input type="checkbox"/> Y <input type="checkbox"/> N	

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Appendix C

California Hazardous Materials Inventory Reporting Form - Chemical Description Page

(1) ADD DELETE REVISE

PAGE (2) OF (3)

BUSINESS NAME (4)
 CHEMICAL LOCATION (5)
 MAP # (6) GRID# (7)

CHEMICAL NAME (8) TRADE SECRET (11) Y N
 COMMON NAME (9) EHS (12) Y N
 CAS# (10) IF EHS BOX IS "Y"
 ALL AMOUNTS MUST BE IN LBS

FIRE CODE (13)
 HAZARD CLASSES (13)

COMPLETE BLOCK (13) IF REQUESTED BY THE LOCAL FIRE CHIEF - REFER TO INSTRUCTIONS.

TYPE (14) PURE MIXTURE WASTE RADIOACTIVE (15) Y N (16)
 PHYSICAL STATE (17) SOLID LIQUID GAS CURIES
 FED HAZARD (18) FIRE REACTIVE PRESSURE RELEASE ACUTE HEALTH CHRONIC HEALTH

STATE WASTE CODE (19) UNITS (22) GAL CU FT MAX DAILY AMT (23)
 LBS TONS

DAYS ON SITE (20) If EHS, amounts must be in lbs. AVG DAILY AMT (24)

LARGEST CONTAINER (21) ANNUAL WASTE AMT (25)

STORAGE CONTAINER (26) ABOVE GROUND TANK CAN BOX TANK WAGON
 UNDER GROUND TANK CARBOY CYLINDER RAIL CAR
 TANK INSIDE BUILDING SILO GLASS BOTTLE _____
 STEEL DRUM FIBER DRUM PLASTIC BOTTLE
 PLASTIC/NONMETALLIC DRUM BAG TOTE BIN

STORAGE PRESSURE (27) AMBIENT ABOVE AMBIENT BELOW AMBIENT

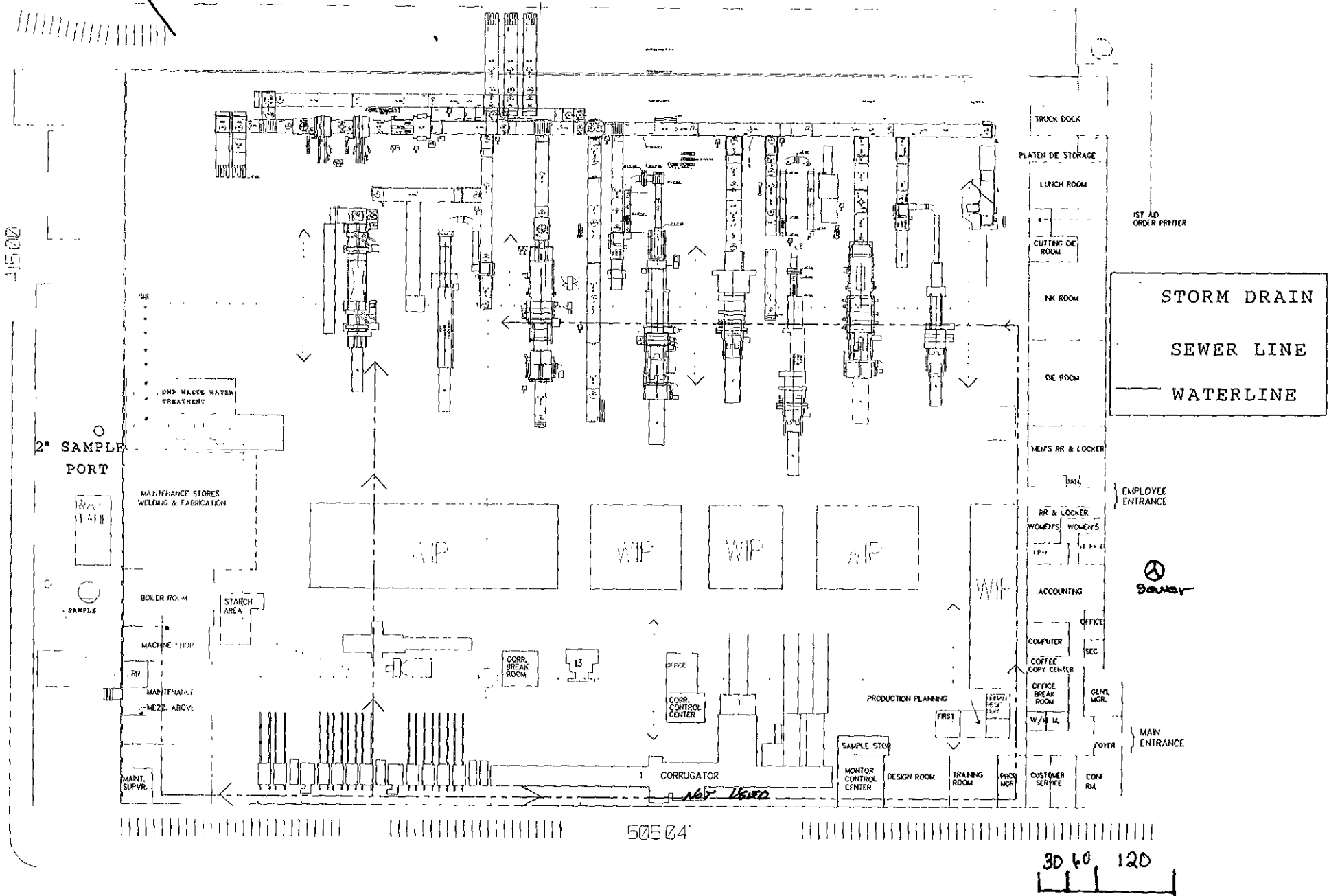
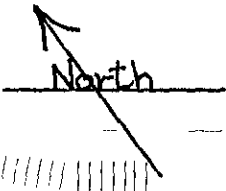
STORAGE TEMPERATURE (28) AMBIENT ABOVE AMBIENT BELOW AMBIENT CRYOGENIC

(29) %WT	(30) HAZARDOUS COMPONENT	(31) EHS	(32) CAS#
1 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
2 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
3 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
4 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>
5 <input type="text"/>	<input type="text"/>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="text"/>

(33) ADDITIONAL LOCALLY COLLECTED INFORMATION

Weyerhaeuser Alameda — Site Plan

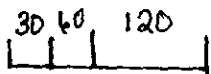
#7



STORM DRAIN
SEWER LINE
WATERLINE

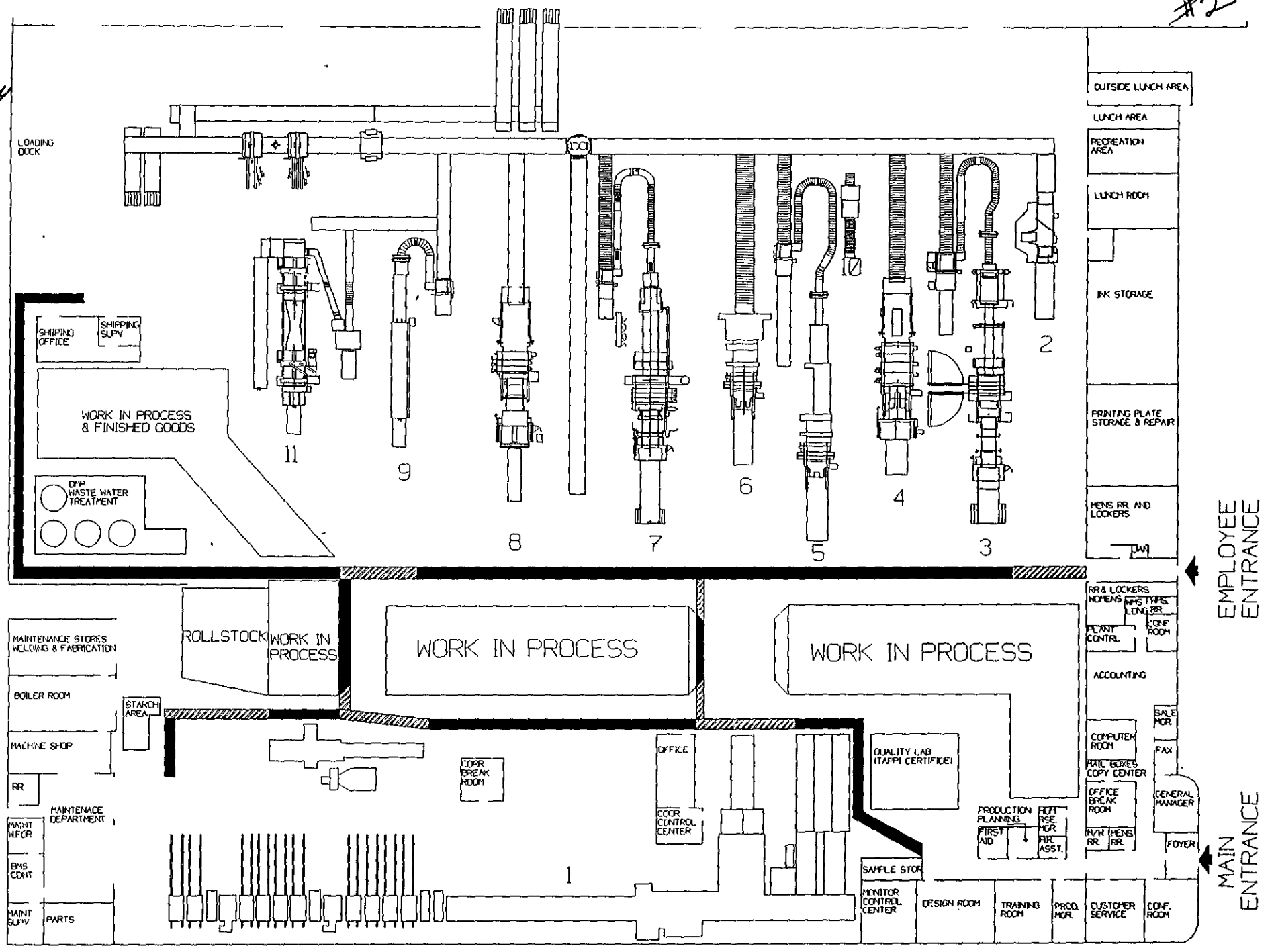
EMPLOYEE ENTRANCE
MAIN ENTRANCE

505'04"



Proprietor

#2



Appendix K

Instructions for completing Emergency Response Plans and Procedures

EMERGENCY RESPONSE TRAINING

1. Internal Notification - Is there an internal notification system for all personnel at your facility? *yes*
2. Off site Notification - Are workers trained to notify the appropriate emergency response agencies? *yes*
3. ER Plan Review - Have employees reviewed the Emergency Response Plan? *yes*
4. Evacuation Procedures - Are there emergency evacuation procedures for all personnel? *yes*
5. Spill Procedures - Do all personnel know what to do in the event of a spill or release? *yes*
6. Handling/Storage Methods - Are your hazardous material/hazardous waste handlers aware of the proper handling and storage methods for the chemicals used? *yes*
7. PPE - Do your hazardous material/hazardous waste handlers have the proper personal protective equipment (PPE) and are they trained in its use? *yes*
8. Spill/Fire Equip. - Are your chemical handlers informed of the location of and trained in the use of the spill and fire equipment methods for the chemicals used? *yes*
9. Exposure Hazards - Are your chemical handlers trained in procedures to minimize exposure hazards from the chemicals used? *yes*
10. Rescue - Is your emergency response team trained in the proper rescue procedures? *yes*
11. Shutdown - Is your emergency response team trained in the proper shutdown techniques? *yes*
12. ER Equipment Maintenance - Does your emergency response team maintain the emergency equipment according to manufacturers specifications? *yes*
13. ER Procedures - Is your emergency response team trained in the emergency response procedures as indicated in your plan? Do they use drills to train? *yes*
14. Annual Retrain - Does your emergency response team have an annual refresher training? *yes*
15. Verify Training - Do you have written records indicating that the required training has been done? *yes*
16. Describe training - Are there written descriptions of the training? *yes*
17. Archival records - Are your training records retained for 3 years? *yes*
18. Drill documentation - Do you have written records of your emergency response drill exercises? *yes*

19. Underground tanks - Is your emergency response plan in conformance with Title 23 regulations requirements Sec. 2632(d)(2) which requires that there be a specified plan concerning methods and equipment to be used in the event of a spill from an underground tank?
20. Title 19 section 2731(e) requires checking key locations after an earthquake. Identify those areas and how they will be checked.

EMERGENCY RESPONSE EQUIPMENT

21. Equipment Location - Identify the locations where your emergency response equipment is stored.
Front + Rear of Plant
22. Responsible Inspector - Identify the person who regularly inspects your emergency response equipment.
By Committee + Contractor
23. Frequency - Specify how frequently the equipment is inspected - i.e., daily, weekly, monthly, annually.
P.M. wkly
24. Personal Protective Equipment - Specify the type of personnel protection equipment used e.g., respirators, self-contained breathing apparati (SCBA), gloves, coveralls, etc.
25. Spill Control Equipment - Specify the equipment used for the immediate clean-up of spills e.g., absorbent, dams, buckets, etc. *Spill Kit*
26. Communication Devices - Identify the types of communication devices present at your facility - e.g., radios, telephones, walkie-talkies, etc.

EVACUATION INFORMATION

27. Evacuation Notification - Does your notification system include shouting, horns, or alarms?
28. Evacuation Procedures - Does your evacuation procedure specify routes of egress, assembly area so that all personnel can be accounted for, maps, and re-entry procedures? *YES*
29. Required Notifications - Section 66265.56, Title 22 CA Code of Regulations states that in the event of a significant spill or release the facility operator is required to: determine the character/source/extent of the problem, notify and submit follow up reports to the Department of Toxic Substances Control and to the local implementing agency regarding measures taken regarding any uncontrollable releases of hazardous waste.
30. Agency Notifications - These agencies must be notified in the even of spills or leaks of hazardous materials or hazardous wastes. *See Attached plans*
31. Other agency name and phone number - Identify any other primary public agencies (name and phone number) to be contacted.
32. Medical Facility - Identify the name, address, and phone number of the medical facility to which injured persons may be brought.

Emergency Notifications: for spills or leaks of hazardous materials or hazardous wastes

29) Fire/Police/Ambulance: 911

Alameda County Department of Environmental Health

M-F 8:30-5pm (510) 567-6700

nights/weekends (510) 667-7721

30) CA Office of Emergency Services (800) 852-7550 or (916) 262-1621

31) Other Agencies

Name: See attached Spill plan Phone: _____

Name: _____ Phone: _____

32) Medical Facility See Attached Plan


Street Address _____

City _____ State _____ Zip Code _____

Phone _____

Certification: I hereby certify, under penalty of perjury, that the information contained in this Hazardous Materials Business Plan is, to the best of my knowledge, true and correct. I understand that I may be required to show proof of compliance during any facility inspection conducted by local, County State, or Federal authorities.

Print Name: Dana Zehrbach Title: Maintenance Supervisor

Authorized Signature:  Date: 2-28-97

Appendix J

Emergency Response Plan and Training

(check all that apply)

(Note: This form is simply a summary of your plan. The plan is a separate document with additional detail where necessary.)

Emergency Response Training

◆ All employees are trained in the following procedures as appropriate:

- 1) Internal emergency alarm notification.
- 2) Immediate notification to Alameda County Department of Environmental Health, State Office of Emergency Services and other emergency response agencies.
- 3) Review of the emergency response plan.
- 4) Evacuation procedures.
- 5) Procedures for the mitigation of a release or threatened release.

◆ Hazardous Materials/Waste handlers are additionally trained in the following:

- 6) Safe method for handling and storage of hazardous materials.
- 7) Proper use of personal protection equipment.
- 8) Locations and proper use of fire and spill control equipment.
- 9) Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e. skin absorption, inhalation, ingestion)

◆ Emergency response team members are additionally trained in the following procedures and will act as a liaison to the Fire Department:

- 10) Personnel rescue procedures.
- 11) Shutdown of operations.
- 12) Use, maintenance, and replacement of emergency response equipment.
- 13) Emergency response drills.
- 14) Refresher training is provided at least annually.

◆ The following training records are maintained for each employee

- 15) Verification of date that training was completed.
- 16) Description of introductory and continuing training appropriate for each employee.
- 17) Employee's training records are retained at least three years.
- 18) Description and documentation of facility emergency response drills.

- ◆ Other *N/A*
- 19) Procedure to be used in the event of a spill from an underground tank.
 - 20) Areas and systems in the facility which are earthquake sensitive have been identified and inspection procedures are established for these areas.

Your Emergency Response Training Plan MUST be on site available for review by Alameda County Department of Environmental Health.

Emergency Response Equipment (check all that apply)

21) Equipment location Through plant

22) Equipment Inspector By Comittie

23) Inspection Frequency WKly

24) Personal Protective Equipment

- Boots
- Chemical resistant suit
- Face shield
- Gloves
- Helmet
- Respiratory protection
- Other

25) Cleanup equipment

- Absorbent
- Brooms
- Neutralizers
- Pumps/Vacuums
- Spill Cart
- Vapor Scrubber
- Other: _____

26) Communication Devices

- Portable Radios
- Telephones
- Pagers
- Other CELLPHONE

Evacuation Information

27) Evacuation Notification procedure:

- Verbal (i.e. shouting)
- Horns
- Alarms

28) Evacuation Procedures

- Defined evacuation routes and procedures.
- Preplanned assembly areas.
- Evacuation route maps prominently displayed throughout facility.
- Re-entry procedures.

EMERGENCY PLAN

ALAMEDA

WEYERHAEUSER COMPANY

ALAMEDA SHIPPING CONTAINER PLANT EMERGENCY PLAN

THIS PLAN COVERS MOST EMERGENCIES

IT SHOULD BE USED WHEN AN EMERGENCY OCCURS EITHER DAY OR NIGHT.

IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO COVER ANY EVENTUALITY, USE COMMON SENSE.

EACH MANAGER MUST BE FAMILIAR WITH THIS PLAN.

ALL BOOKS ARE CODED AND ASSIGNED BY NUMBER.

- #1 Bob Stephany (home copy)
- #2 Bob Stephany (work copy)
- #3 John Hipner (home copy)
- #4 John Hipner (work copy)
- #5 Danny Bergeron
- #6 Dick Dixon
- #7 Steve Hill
- #8 Yolanda Torres (home copy)
- #9 Yolanda Torres (work copy)
- #10 Supervisor's Desk
- #11 Shipping Office
- #12 Maintenance Office
- #13 Corrugator Office
- #14 Dana Zehrbach (home copy)
- #15 Dana Zehrbach (work copy)
- #16 First Aid Room
- #17 Front Office (office copy)

EMERGENCY PHONE NUMBERS

**PLANT PERSONNEL
CONTACT NUMBERS**

		FIRE
		GAS BREAKS
4		
		SERIOUS INJURY
		FATAL INJURY
6		
		EXPLOSION
7		
		BOMB THREAT
8		
		ALIEN OBJECT
9		
		POWER OUTAGE WATER OUTAGE
10		
		FLOOD/STORM
11		
		RIOT IN PLANT
12		
		STRIKE ACTION BY WEYERHAEUSER EMPLOYEES
13		
		STRIKE ACTION BY THIRD PARTY
14		
		CIVIL DISORDER
		16. EARTHQUAKE
		17. SPILL PLAN

EMERGENCY NUMBERS

LOCATION: 1801 Hibbard St.
Alameda, CA 94501

FIRE	911
AMBULANCE	911
POLICE	911
SECURITY MANAGER	563-4000
BURNS OFFICE	563-4000
BURNS DISPATCH AND SUPERVISOR	801-3742 (pager) 409-3905 (cellular)
SECURITY SUBJECTS	800-322-4870

WEYERHAEUSER COMPANY

1st PERSON TO CALL	JOHN HIPNER	371-0806 (home) 840-7184 (pager)
2nd PERSON TO CALL	BOB STEPHANY	539-2031 (pager) 846-1095 (home) 814-1104 (voicemail)
3rd PERSON TO CALL	YOLANDA TORRES	376-3304 (home) 840-8330 (pager)

If you are unable to contact any of the above three persons, then the person identifying the emergency should contact Dan Pyne.

Region Office: (510)830-1240
Voice Mail: (206) 924-5630 Box #: 9033 then press #

A message will be left at any of the above two numbers.

Updates: Dan Pyne is to receive updates on the emergency EVERY FOUR HOURS.

EMERGENCY RESPONSE TEAM

The following individuals have volunteered and have been trained in CPR, First Aid and Blood Borne Pathogen:

OFFICE

Yolanda Torres
Danny Bergeron
Dick Dixon
Steve Hill
Ben Casillas
Danny Trujillo
John Hipner

SUPERVISORS

Ernesto Leyva
Carlos Santos
Bill Gay
George Jones
Terry Jackson
Duane Vigil

CORRUGATOR

Alfredo Ramirez
Reccel Jones
Miguel Gaitan

SHIPPING

Bob Anthon
Bob Bartolero
Robert Romero
Mike Frese
Mike Galindo
Jerry Manis
Larry Pasley

PLANT

Ralph Manzo

FINISHING

Danny Viray
Liz Crua
Salvador Arrellano
Juan Macias
Glen Garcia
Manuel Cardenas
Mimon Asraf
Joe Sheppard
Al Pura
Jose Ponce
Robert Helsel
Hector Marquina
Fernando Delgadillo
Mariano Ponce
Anita Wright
Hector Del Rio

MAINTENANCE

Dana Zehrbach
Gary Weese
David Anderson
Barry Palo
Jaime Frontera

EMERGENCY NUMBERS

LOCATION: 1801 Hibbard St.
Alameda, CA 94501

FIRE	911
AMBULANCE	911
POLICE	911
SECURITY MANAGER	563-4000
BURNS OFFICE	563-4000
BURNS DISPATCH AND SUPERVISOR	801-3742 (pager) 409-3905 (cellular)
SECURITY SUBJECTS	800-322-4870

WEYERHAEUSER COMPANY

1st PERSON TO CALL	JOHN HIPNER	371-0806 (home) 840-7184 (pager)
2nd PERSON TO CALL	BOB STEPHANY	539-2031 (pager) 846-1095 (home) 814-1104 (voicemail)
3rd PERSON TO CALL	YOLANDA TORRES	376-3304 (home) 840-8330 (pager)

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Ernesto Leyva
Carlos Santos
Bill Gay
George Jones
Terry Jackson
Duane Vigil

CORRUGATOR

Alfredo Ramirez
Reccel Jones
Miguel Gaitan

SHIPPING

Bob Anthon
Bob Bartolero
Robert Romero
Mike Frese
Mike Galindo
Jerry Manis
Larry Pasley

PLANT

Ralph Manzo

FINISHING

Danny Viray
Liz Crua
Salvador Arrellano
Juan Macias
Glen Garcia
Manuel Cardenas
Mimon Asraf
Joe Sheppard
Al Pura
Jose Ponce
Robert Helsel
Hector Marquina
Fernando Delgadillo
Mariano Ponce
Anita Wright
Hector Del Rio

MAINTENANCE

Dana Zehrbach
Gary Weese
David Anderson
Barry Palo
Jaime Frontera

TO ALL EMPLOYEES

Management has drafted a set of plant evacuation procedures which should minimize any confusion in the event of an emergency. Please read the following carefully.

1. When the alarm goes off, stop everything. Don't pick up tools, sweaters, or any other personal items.
2. Do not run, walk at all times in a hurried manner.
3. After evacuating the plant, report to area marked "A" on the evacuation map, the dirt parking lot across from the main office. Roll call will taken there.
4. Do not get in your car and leave the area. You will be instructed when you can leave and return to work. Once again, do not get into your car and leave.
5. Shipping, Maintenance, Corrugator and Finishing Supervisors are required to have a radio to communicate to each other.

FIRE

DO THE FOLLOWING:

1. Call the Fire Department
2. Evacuate the building, including the office, proceed to vacant dirt lot across the street...(Hibbard and Buena Vista)
3. Call the roll off the manning schedule and roll call sheet
4. Insure Emergency Response Team members are responding
5. Brief Fire Department contact person on location of fire and send to corner of Buena Vista and Hibbard
6. Notify Managers listed under "PERSONAL" Tab in this book
7. Monitor progress of fire and all employee actions
8. At end of fire, if building is safe, re-enter
9. Organize and complete clean up
10. Return to work, as appropriate
11. In case of injuries, the General Manager, the Production Manager or the Human Resources Manager will notify families

ALAMEDA EMERGENCY RESPONSE TEAM

DATE: OCTOBER, 1996

	POSITION	ALL SHIFTS	DUTIES OF THE EMERGENCY RESPONSE TEAM
A	FIRE CHIEF ----- ALTERNATE	FINISHING SUPERVISOR ----- NEXT SENIOR PERSON ON PRODUCTION FLR	<ul style="list-style-type: none"> • Fire Chief will make sure everyone is out of the building. • Let the First Captain know if anyone is missing. • Give the OK to return to work and supervise the salvage squad. • Notify the Production Manager of the situation.
B	PERSON TO CALL FIRE DEPT. ----- ALTERNATE	CORRUGATOR SUPERVISOR OR PERSON WHO FIRST OBSERVES ----- FINISHING SUPERVISOR	<ul style="list-style-type: none"> • He/She must be familiar with the location of the fire alarms and pull the alarm. • Notify the supervisor on duty and if not in immediate view, notify the roll call person at the roll call area the location of the fire.
C	PERSON TO CALL ROLL ----- ALTERNATE	511 MACHINE OPERATOR ----- 511 ASST. OPERATOR	<ul style="list-style-type: none"> • He/She will take roll in the Area "A" on the evacuation map off the manning and roll call sheet and report any missing employees to the Fire Chief.
D	PERSON TO DIRECT FIRE DEPT. ----- ALTERNATE	PUL-PAK DRIVER ----- FINISHING DRIVER (Extra)	<ul style="list-style-type: none"> • He/She will stand at the corner of Hibbard and Buena Vista and direct the Fire Department
E	SPRINKLER VALVE CONTROLLER ----- ALTERNATE	SHIFT MECHANIC ----- SHIFT MECHANIC	<ul style="list-style-type: none"> • He/She must know locations of all valves and how to operate them. • His/Her main function is to make sure the valve controlling the fire area is open until ordered shut by the Fire Chief.

F	ELECTRICIAN ----- ALTERNATE	SHIFT MECHANIC ----- SHIFT MECHANIC	<ul style="list-style-type: none"> • He/She must know the locations of all switches controlling the power. • He/She must know how to shut down the necessary equipment. • He/She shall stand ready to make temporary connections if needed.
G	TRUCKS - BACK LOT ----- ALTERNATE	SHIPPING AND RECEIVING CLERK (upstairs) ----- ROLL TRUCK DRIVER	<ul style="list-style-type: none"> • In charge of ensuring that truckers do not enter the back lot during an emergency.
H	SALVAGE SQUAD ----- ALTERNATE	FINISHING SUPERVISOR ----- CORRUGATOR SUPERVISOR	<ul style="list-style-type: none"> • In charge of clean up and salvaging what was not damaged.
I	MAINTENANCE ----- ALTERNATE	WET END CORRUGATOR OPERATOR ----- CORRUGATOR SUPERVISOR	<ul style="list-style-type: none"> • Walk through Maintenance. <p>As person evacuates the plant, they will walk through the Maintenance area and check:</p> <ul style="list-style-type: none"> • Break Room • Maintenance Office • Stock Room • Boiler Room
J	ROOF ----- ALTERNATE	CORRUGATOR SUPERVISOR ----- CORRUGATOR SUPERVISOR	<ul style="list-style-type: none"> • Check the access for the roof. • Check to see if anyone has signed in and no one is left behind. There are two locations which need to be checked: <ul style="list-style-type: none"> • Corrugator side access • Finishing side access - (Ink Room)
K	ROLL SHED	SHIPPING AND RECEIVING CLERK (downstairs)	<ul style="list-style-type: none"> • Walk through the roll shed area and check of everyone is out.
L	OFFICE	CUSTOMER SERVICE DEPT.	<ul style="list-style-type: none"> • He/She is responsible for walking through the office to ensure everyone in the front office is out of the building. • He/She is responsible for picking up the Visitor Sign In log on their way out to the roll call area.

<u>Flexos</u>	<u>MISSING</u>
510	_____
511	_____
517	_____
Post	_____
Preset	_____

	<u>MISSING</u>
Die Cuts	_____
Press	_____
Bobst	_____
Rotary 241	_____
Rotary 246	_____

	<u>MISSING</u>
Janitor	_____
Die Mount	_____
Unitier	_____
Waxer	_____

<u>Shipping</u>	<u>MISSING</u>
(Shipping Supervisor should respond)	
Finishing Lift	_____
Roll Shed	_____
Pull Pak	_____
Rollstock	_____
Clerks	_____
TAF Drivers	_____

<u>Corrugator</u>	<u>MISSING</u>
(Dry End Operator should respond)	
_____	_____
_____	_____
Starch	_____
Bailer	_____

<u>Maintenance</u>	<u>MISSING</u>
_____	_____
Contractors	_____
_____	_____

<u>OFFICE</u>	<u>MISSING</u>
General Mgr.	_____
Production Mgr.	_____
Production Plng	_____
Sales	_____
Design	_____
Customer Svc.	_____
Accounting	_____
Quality	_____
Human Res.	_____

<u>SUPERVISORS</u>	<u>MISSING</u>
Shipping	_____
Finishing	_____
Corrug.	_____
WORKING FOREMAN	
_____	_____
_____	_____

<u>MISCELLANEOUS</u>
Temporary Employees _____
Missing: _____
Visitors: _____
Missing: _____
Other: _____

ALAMEDA EMERGENCY RESPONSE TEAM

DATE: OCTOBER, 1996

	POSITION	ALL SHIFTS	DUTIES OF THE EMERGENCY RESPONSE TEAM
A	FIRE CHIEF ----- ALTERNATE	FINISHING SUPERVISOR ----- NEXT SENIOR PERSON ON PRODUCTION FLR	<ul style="list-style-type: none"> • Fire Chief will make sure everyone is out of the building. • Let the First Captain know if anyone is missing. • Give the OK to return to work and supervise the salvage squad. • Notify the Production Manager of the situation.
B	PERSON TO CALL FIRE DEPT. ----- ALTERNATE	CORRUGATOR SUPERVISOR OR PERSON WHO FIRST OBSERVES ----- FINISHING SUPERVISOR	<ul style="list-style-type: none"> • He/She must be familiar with the location of the fire alarms and pull the alarm. • Notify the supervisor on duty and if not in immediate view, notify the roll call person at the roll call area the location of the fire.
C	PERSON TO CALL ROLL ----- ALTERNATE	511 MACHINE OPERATOR ----- 511 ASST. OPERATOR	<ul style="list-style-type: none"> • He/She will take roll in the Area "A" on the evacuation map off the manning and roll call sheet and report any missing employees to the Fire Chief.
D	PERSON TO DIRECT FIRE DEPT. ----- ALTERNATE	PUL-PAK DRIVER ----- FINISHING DRIVER (Extra)	<ul style="list-style-type: none"> • He/She will stand at the corner of Hibbard and Buena Vista and direct the Fire Department
E	SPRINKLER VALVE CONTROLLER ----- ALTERNATE	SHIFT MECHANIC ----- SHIFT MECHANIC	<ul style="list-style-type: none"> • He/She must know locations of all valves and how to operate them. • His/Her main function is to make sure the valve controlling the fire area is open until ordered shut by the Fire Chief.

F	ELECTRICIAN ----- ALTERNATE	SHIFT MECHANIC ----- SHIFT MECHANIC	<ul style="list-style-type: none"> • He/She must know the locations of all switches controlling the power. • He/She must know how to shut down the necessary equipment. • He/She shall stand ready to make temporary connections if needed.
G	TRUCKS - BACK LOT ----- ALTERNATE	SHIPPING AND RECEIVING CLERK (upstairs) ----- ROLL TRUCK DRIVER	<ul style="list-style-type: none"> • In charge of ensuring that truckers do not enter the back lot during an emergency.
H	SALVAGE SQUAD ----- ALTERNATE	FINISHING SUPERVISOR ----- CORRUGATOR SUPERVISOR	<ul style="list-style-type: none"> • In charge of clean up and salvaging what was not damaged.
I	MAINTENANCE ----- ALTERNATE	WET END CORRUGATOR OPERATOR ----- CORRUGATOR SUPERVISOR	<ul style="list-style-type: none"> • Walk through Maintenance. <p>As person evacuates the plant, they will walk through the Maintenance area and check:</p> <ul style="list-style-type: none"> • Break Room • Maintenance Office • Stock Room • Boiler Room
J	ROOF ----- ALTERNATE	CORRUGATOR SUPERVISOR ----- CORRUGATOR SUPERVISOR	<ul style="list-style-type: none"> • Check the access for the roof. • Check to see if anyone has signed in and no one is left behind. There are two locations which need to be checked: <ul style="list-style-type: none"> • Corrugator side access • Finishing side access - (Ink Room)
K	ROLL SHED	SHIPPING AND RECEIVING CLERK (downstairs)	<ul style="list-style-type: none"> • Walk through the roll shed area and check if everyone is out.
L	OFFICE	CUSTOMER SERVICE DEPT.	<ul style="list-style-type: none"> • He/She is responsible for walking through the office to ensure everyone in the front office is out of the building. • He/She is responsible for picking up the Visitor Sign In log on their way out to the roll call area.

ROLL CALL

Name of person taking Roll Call: _____

Date of Emergency: _____

Nature of Emergency: _____

Which shift: _____

Time: _____

Your responsibility as roll caller is to call out each of the departments, as listed on the back and the operator for each department will respond whether an individual is missing or if their department is accounted for. Once you have determined everyone's status, you are to give this information to the Supervisor in charge (Fire Chief) and they will make review it with the Fire Captain (Fire Department).

Example:

You are to simply yell out (using the bull horn)... Flexo...510..... and wait for an answer. Then check off that everyone is all accounted for or write down any missing employee's name.

<u>Flexos</u>	<u>MISSING</u>	
510	_____	_____
511	_____	_____
517	_____	_____
Post	_____	_____
Preset	_____	_____

		<u>MISSING</u>
Die Cuts	_____	_____
Press	_____	_____
Bobst	_____	_____
Rotary 241	_____	_____
Rotary 246	_____	_____

		<u>MISSING</u>
Janitor	_____	_____
Die Mount	_____	_____
Unitier	_____	_____
Waxer	_____	_____

<u>Shipping</u>	<u>MISSING</u>
(Shipping Supervisor should respond)	
Finishing Lift	_____
Roll Shed	_____
Pull Pak	_____
Rollstock	_____
Clerks	_____
TAF Drivers	_____

<u>Corrugator</u>	<u>MISSING</u>
(Dry End Operator should respond)	
_____	_____
_____	_____
Starch	_____
Bailer	_____

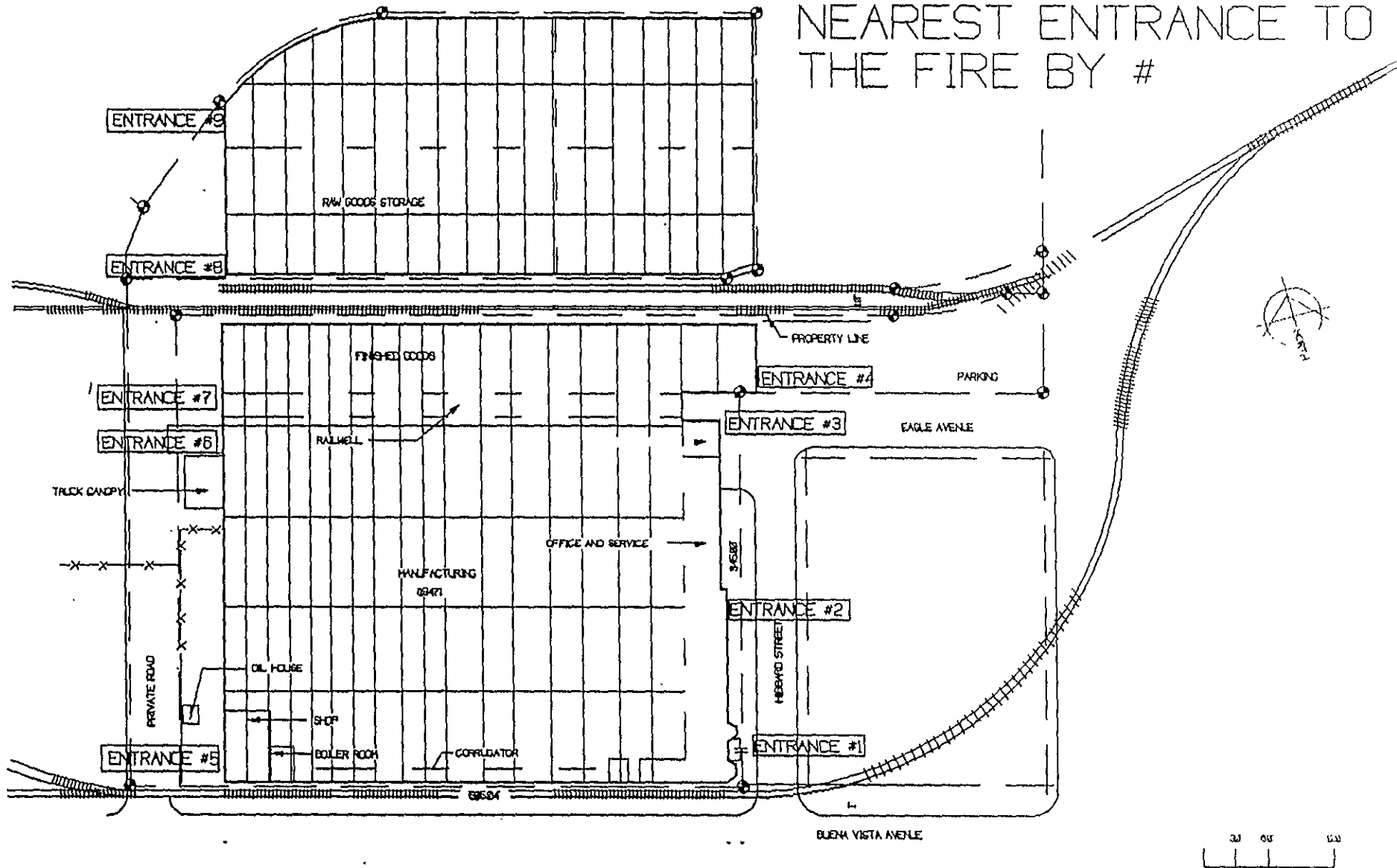
<u>Maintenance</u>	<u>MISSING</u>
_____	_____
Contractors	_____
_____	_____

<u>OFFICE</u>	<u>MISSING</u>	
General Mgr.	_____	_____
Production Mgr.	_____	_____
Production Plng	_____	_____
Sales	_____	_____
Design	_____	_____
Customer Svc.	_____	_____
Accounting	_____	_____
Quality	_____	_____
Human Res.	_____	_____

<u>SUPERVISORS</u>	<u>MISSING</u>
Shipping	_____
Finishing	_____
Corrug.	_____
WORKING FOREMAN	
_____	_____
_____	_____

<u>MISCELLANEOUS</u>
Temporary Employees _____
Missing: _____
Visitors: _____
Missing: _____
Other: _____

IN CASE OF FIRE CALL
911 GIVE LOCATION OF
NEAREST ENTRANCE TO
THE FIRE BY #



GAS BREAK

1. Pull fire alarm to evacuate the plant.
2. Take roll call and account for all employees.
3. Call the Fire Department, Dial 911.
4. Get a maintenance person to shut off the gas valve to the plant.
5. Blockade the area if warranted.
6. Call Pacific Gas and Electric - 839-1234.
7. Notify emergency list.
8. Wait for further instructions.

SERIOUS INJURY

1. Administer minimum First Aid necessary.
2. Comfort and cover injured person.
3. Call for ambulance - Dial 911.
4. **If transported to a medical facility , a salaried employee should accompany or follow and remain until the condition/prognosis is determined.**
5. Keep spectators away.
6. Call person on emergency list.
7. Document accident, witnesses, write down all that is known or was seen.
8. Shut down machine and leave down until further notice. Maintenance will secure (Lock Out/Tag Out) machine.
9. General Manager, Production Manager or Human Resource Manager will notify family, if appropriate.
10. General Manager or Production Manager will notify Corporate Safety Office if appropriate. No statements will be made to the Press or other parties.
11. After the injured party has been cared for, begin accident investigation immediately. Complete within 24 hours.

No matter how serious an injury is, if an employee needs to see a doctor, a supervisor must accompany the employee and stay with the employee until a prognosis is determined.

FATALITY REPORTING PROCEDURE

FATALITY PROCEDURE

The management of Weyerhaeuser Company believes that no phase of its operation or administration is of greater importance than prevention of industrial injury. As an integral part of our total occupational safety and health program, accident investigation is especially important as a means to determine cause, uncover indirect accident causes, prevent similar accidents from occurring, document facts, provide information on costs and promote safety.

A fatality shocks each of us and imposes special moral, legal and economic obligations that have ramifications beyond the local unit. Managing fatalities requires teamwork among representatives of all levels of the Company so that the best interests of the deceased, his or her family, the corporation and the stockholders are served.

The following is a brief on how the local unit and Corporate should respond to an industrial fatality.

HOW SHOULD THE COMPANY RESPOND TO FATALITIES?

<u>PRIORITY ORDER</u>	<u>PRIMARY RESPONSIBILITY</u>
* Immediate supervisor and most senior local manager notify family (in person) immediately.	Local Unit Management
* Notify Regional V.P. immediately.	Local Unit Management
* Notify Corporate Safety within 24 hours Send copy of written documentation upon completion of investigation.	Local Unit Management
* Inform Senior management and other key corporate personnel within 24 hours.	Corporate Safety & Health
* Notify federal/state OSHA within 24 hours or other applicable state or federal agencies (DOT, FRA).	Local Management Corporate Safety & Health
* Commence thorough investigation that meets federal, state and Corporate standards WITHIN 24 HOURS of incident.	Local Management Corporate Safety & Health
* Determine most probable cause(s) and take prompt remedial action to prevent recurrence.	Local Management Corporate Safety & Health
* Thoroughly describe and document all situations, conditions, actions involved in incident.	Local Management

HOW SHOULD THE COMPANY RESPOND TO FATALITIES?

(continued)

PRIORITY ORDER

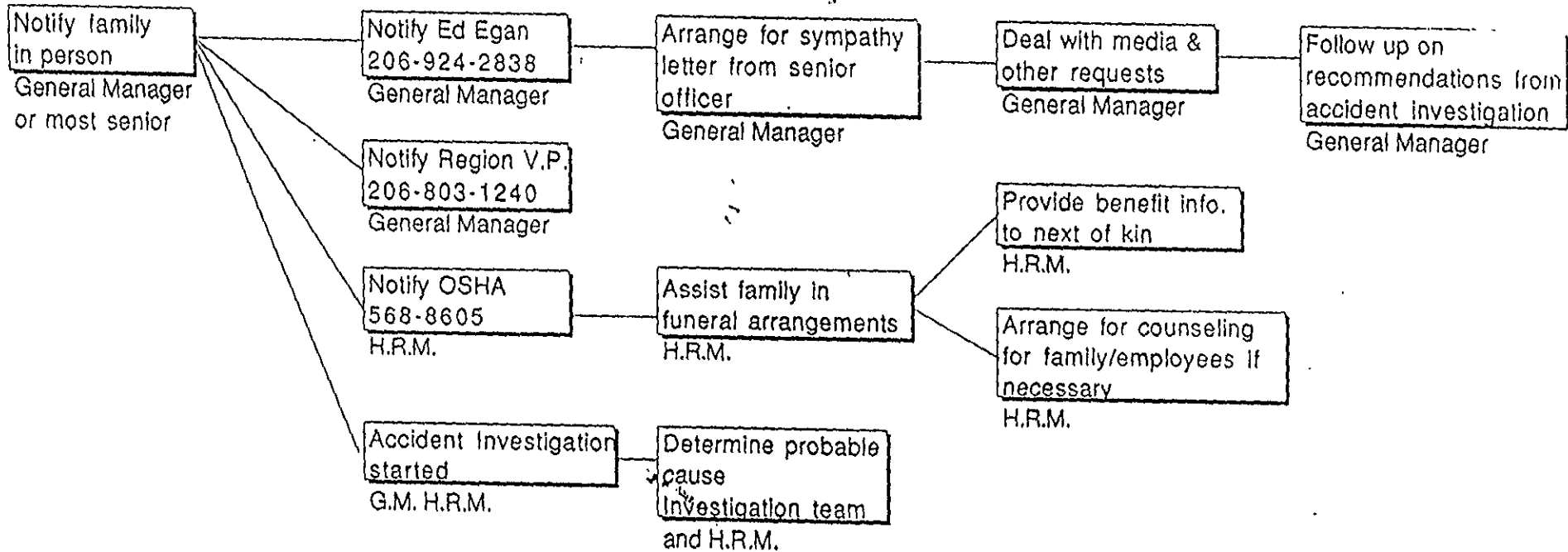
PRIMARY

RESPONSIBILITY

- | | |
|---|---|
| * Assist family in funeral arrangements.
Provide necessary amenities, attend funeral. | Local Management |
| * Send sympathy letter to family or next of kin
signed by President or Senior Company Officer. | Regional Vice President/
Branch/Zone Manager |
| * Provide contact for next of kin to explain benefits. | Local Management |
| * Arrange for counseling as necessary to family and
affected employees. | Local Management |
| * Deal with media and individuals wishing to visit site. | Local Management |
| * Communicate "lessons learned" to other similar
Company operations. | Corporate Safety & Health |
| * Follow up on recommendations of accident
Investigation. | Local Management |
| * Note to responsible Group Vice President
(60 days after incident) on appropriate questions
to ask local management. | Corporate Safety & Health |
| * Group Vice President review accident report
and remedial action taken. Follow up as desirable. | Group Vice President |

ALAMEDA FATALITY RESPONSE FLOW CHART

IMMEDIATELY
 24 HOURS
 48 HOURS
 AS APPROPRIATE



Fatality Report Weyerhaeuser Company

(To Be Completed For All Fatal Injuries)

Location _____

To: Safety Manager - Corporate

Date: _____

Name of Deceased: _____

Social Security Number: _____

Dependents (names & addresses, including children's names and ages):

Date of Birth: _____

Years Employed: _____

Occupation: _____

Previous Experience in the Industry:

Date of Injury: _____

Time of Injury: _____

Date of Death: _____

Place of Death: _____

Weather Conditions: _____

Apparent Physical Condition:

(Such as eyesight, glasses, hearing or physical defects; if physical exam available, what did it show?)

Cal/OSHA Directory

Division Headquarters

Address	Phone
San Francisco 445 Golden Gate, Room 5202 San Francisco 94102	
Chief (415) 703-4341	(415) 703-4341
Deputy Chief, Health & Technical Services (415) 703-4341	(415) 703-4341
Deputy Chief, Field Operations (Safety) (415) 703-4341	(415) 703-4341
Assistant to Chief (415) 737-2959	(415) 737-2959
Staff Services Manager (415) 737-2946	(415) 737-2946
Administration (415) 737-2600	(415) 737-2600
Information	
Public (415) 737-2818	(415) 737-2818
Management (415) 737-2856	(415) 737-2856
Library (415) 737-2843	(415) 737-2843
Personnel (415) 737-2914	(415) 737-2914
Research & Standards (415) 737-2932	(415) 737-2932
Port Headquarters (415) 557-2604	(415) 557-2604
Offshore Vessels Headquarters (415) 557-1009	(415) 557-1009

Regional Offices

Albany 2100 E. Katella, Suite 125, 92806 (714) 939-8611	(714) 939-8611
Albany 3550 W. Sixth Street, Room 413, 90020 (213) 736-4911	(213) 736-4911
Albany 2424 Arden Way, Suite 125, 95825 (916) 920-6127	(916) 920-6127
San Francisco 1390 Market Street, Suite 822, 94102 (415) 577-8640	(415) 577-8640

District Offices

Albany 2100 E. Katella, Suite 140, 92806 (714) 939-0145	(714) 939-0145
Albany 4800 Stockdale Hwy, Suite 212, 93309 (805) 395-2718	(805) 395-2718
Albany 1465 Enea Circle, Bldg. E, Suite 900, 94520 (510) 676-5333	(510) 676-5333
Albany 1123 S. Parkview, Suite 100, 91724 (818) 966-1166	(818) 966-1166
Albany 2550 Mariposa Street, Room 4000, 93721 (209) 445-5302	(209) 445-5302
Albany 3550 W. Sixth Street, Room 431, 90020 (213) 736-3041	(213) 736-3041
Albany 1209 Woodrow, Suite C-4, 95350 (209) 576-6260	(209) 576-6260
Albany 7700 Edgewater Drive, Suite 125, 94621 (510) 568-8602	(510) 568-8602
Albany 9455 E. Slauson Avenue, 90660 (213) 949-7827	(213) 949-7827
Albany 381 Hemsted Drive, 96002 (916) 224-4743	(916) 224-4743
Albany 2424 Arden Way, Suite 165, 95825 (916) 920-6123	(916) 920-6123
Albany 2424 Arden Way, Suite 485, 95825 (916) 920-6004	(916) 920-6004
Albany (916) 920-6361	(916) 920-6361
Albany 242 E. Airport Drive, Suite 103, 92408 (714) 383-4321	(714) 383-4321
Albany 7807 Convoy Court, Suite 140, 92111 (619) 237-7325	(619) 237-7325

Cal/OSHA Directory

San Francisco	1390 Market Street, Suite 718, 94102	(415) 557-1677
- Elevators		(415) 557-1130
San Jose	2010 N. First Street, Suite 401, 95131	(408) 452-7288
San Mateo	1900 S. Norfolk Street, Suite 215, 94403	(415) 573-3812
Santa Rosa	1221 Farmers Lane, Suite 300, 95405	(707) 576-2388
Torrance	680 Knox Street, Suite 100, 90502	(310) 516-3734
Van Nuys	6150 Van Nuys Blvd, Suite 405, 91401-3379	(818) 901-5403
- Elevators		(818) 901-5411
Ventura	1655 Mesa Verde, Room 150, 93003	(805) 654-4581

Field Offices

Chico	555 Rio Lindo, Suite A, 95926	(916) 895-4761
Eureka	619 Second Street, Room 109, 95501	(707) 445-6611
Salinas	1164 Monroe Street, Suite 1, 93906-3564	(408) 443-3050
Santa Fe Springs	10350 Heritage Park Drive, Suite 201, 90670	(213) 944-7676
Stockton	31 E. Channel Street, Room 418, 95202	(209) 948-7762
Ukiah	620 Kings Court, Suite 5, 95482	(707) 463-4783

Standards Board

Sacramento	1006 4th Street, 3rd Floor, 95814-3372	(916) 322-3640
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Appeals Board

Sacramento - Information Members & Executive Officers	1006 4th Street, 4th Floor, 95814	(916) 322-5080
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Consultation Services Headquarters

San Francisco	455 Golden Gate Avenue, Room 5246, 94102	(415) 703-4050
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Consultation Services Field Offices

Fresno	1901 N. Gateway Blvd, Suite 102, 93727	(209) 454-1295
Sacramento	2424 Arden Way, Suite 90, 95825	(916) 920-6131
San Diego	7827 Convoy Court, Suite 406, 92111	(619) 279-3771
San Mateo	3 Waters Park Drive, Suite 230, San Mateo 94403	(415) 573-3862
Santa Fe Springs	10350 Heritage Park Drive, Suite 201, 90670	(310) 944-9366

EXPLOSION

1. Pull alarm to evacuate the building.
2. Call 911 - and request Fire and Medical help.
3. Account for all employees (take roll call): make a list of any persons injured or killed.
4. Keep all personnel a safe distance away and await further instructions.
5. Assign maintenance personnel to assist where possible and safe.
6. Notify personnel on emergency list.
7. General Manager, Production Manager or Human Resource Manager will notify relatives, staff, or others, as appropriate.

BOMB THREAT

1. Keep the person talking as long as possible (Use the attached form as a guide).
2. Pull alarm to evacuate the building and account for employees.
3. Call the Police (Dial 911).
4. Fill out the attached form.
5. Notify personnel on the emergency list.
6. Keep all personnel at a safe distance until the building has been cleared for re-entry.

Bomb Threat Report

Keep Caller Talking As Long As Possible (Ask Him To Repeat)

Location	Post Office	State	Date of Bomb Threat
Person Receiving Report	(Last — First — Initial)	Phone Number Receiving Call	Phone Location (Bldg./Floor)
Time Call Received	Was Tape Recorder Used to Record Call? <input type="checkbox"/> No <input type="checkbox"/> Yes, Recording Given To: _____		
Exact Words of Caller			

Ask Caller These Questions: What Time is Bomb Set to Explode?	What Kind of Triggering Device?
--	---------------------------------

Why Did You Plant The Bomb? _____

What Kind of Bomb is it? Dynamite Black Powder Other (explain): _____

What Does It Look Like? _____

Description of Caller

(Place an X in Proper Boxes)
 Male Female Young Middle-Aged Old Couldn't Tell

Voice:
 Deep High-Pitched Serious Rasping Sounded Intoxicated

Emotion:
 Joking Normal Laughing Excited Angry

Did Caller Have Accent? No Yes, It Sounded Like (Mispronounced Words): _____

What Other Voice Characteristics Did You Notice? _____

Background Sounds: Music Traffic Talking Machinery Other: _____

Action Taken

(Place X in Proper Box)
 Law Enforcement Agencies Notified None Local Police Sheriff State Police FBI AT & T
Last First

Name of Person Responsible For Security Notified: _____

Were Employees Evacuated? <input type="checkbox"/> Yes <input type="checkbox"/> No	Were Employees Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Action Taken (if none, so indicate)
---	--	--

Was Trap Used?
 No Yes — With Following Results: _____

List Persons Suspected: Last — First — Initial	Address:

ALIEN OBJECT

1. Do not touch the object.
2. Pull fire alarm and evacuate the building and take roll call.
3. Notify the Police (Dial 911).
4. Notify personnel on the emergency list.
5. Stay clear until object has been removed by competent authorities and the **ALL-CLEAR** is given.
6. Resume operations.

POWER OR WATER OUTAGE

1. Assemble all hourly employees in the **main aisle way of the plant** and take roll call.
2. Call Bureau of Electricity, 522-7411 (Monday - Friday, 8 a.m. - 5 p.m.). After 5 p.m., Saturday, Sunday and Holidays, call 835-3000.
3. Notify personnel on emergency list.
4. Consult with Production Manager before deciding to send crew home.
5. If outage occurs during daylight hours, some clean-up work may be accomplished during outage.

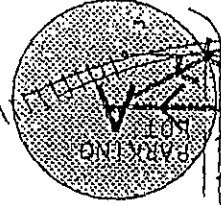
STORM

- 1, Insure safety of employees and inventory.
2. Consult with Production Manager.
3. Release employees and secure building if necessary.

FLOOD

1. Insure safety of employees and inventory.
2. Call Electric Company and have power shut off.
3. Consult with Production Manager.
4. Release employees and secure building if necessary.

BUENA VISTA AVENUE



REAR DRIVE

PRIVATE ROAD

45305

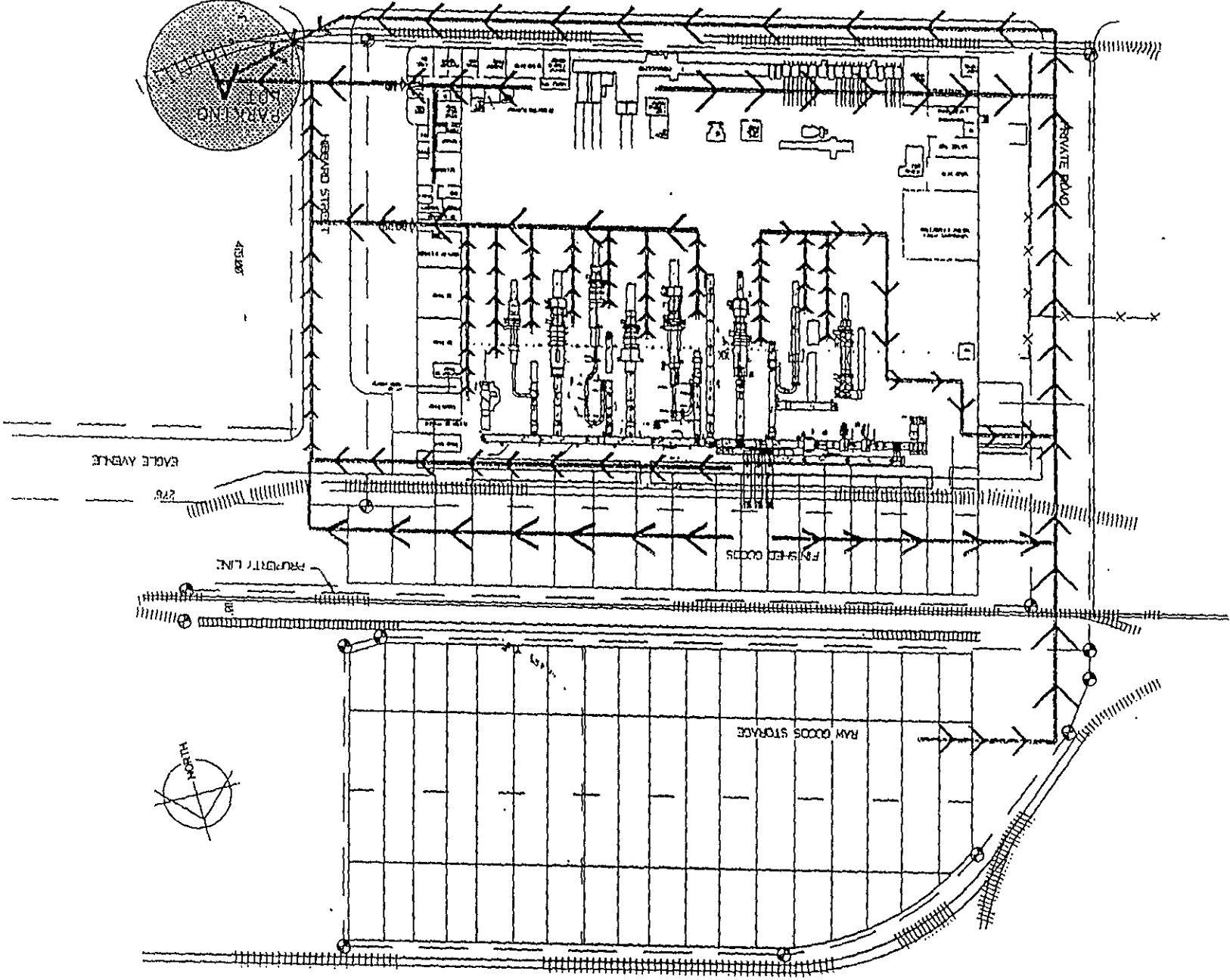
EAGLE AVENUE

276

PROPERTY LINE

FRUIT COGS

RAW GOODS STORAGE



RIOT (IN PLANT PERSONNEL)

1. Notify the Police and Fire Department (Dial 911).
2. Make reasonable, but safe attempts to quell the riot and preserve company property.
3. Notify persons on the emergency list.
4. Secure all doors possible to confine area of damage.
5. Be safe.

STRIKE ACTION
(BY WEYERHAEUSER EMPLOYEES)

1. Close down the plant and secure the building.
2. Notify personnel on the emergency list.
3. Set up fire watch and security patrol with any salaried personnel available.
4. Only the General Manager, Production Manager, or Corporate Labor Relations personnel are authorized to negotiate with the strikers.
5. Stay and watch and patrol until properly relieved.

STRIKE ACTION
(BY THIRD PARTY PERSONNEL)

1. Notify personnel on emergency list.
2. Notify Shop Steward.
3. Insure the operations continue. (NO STRIKE CLAUSE IN CONTRACT).
4. General Manager, Production Manager, or Corporate Labor Relations will handle removal of strikers.

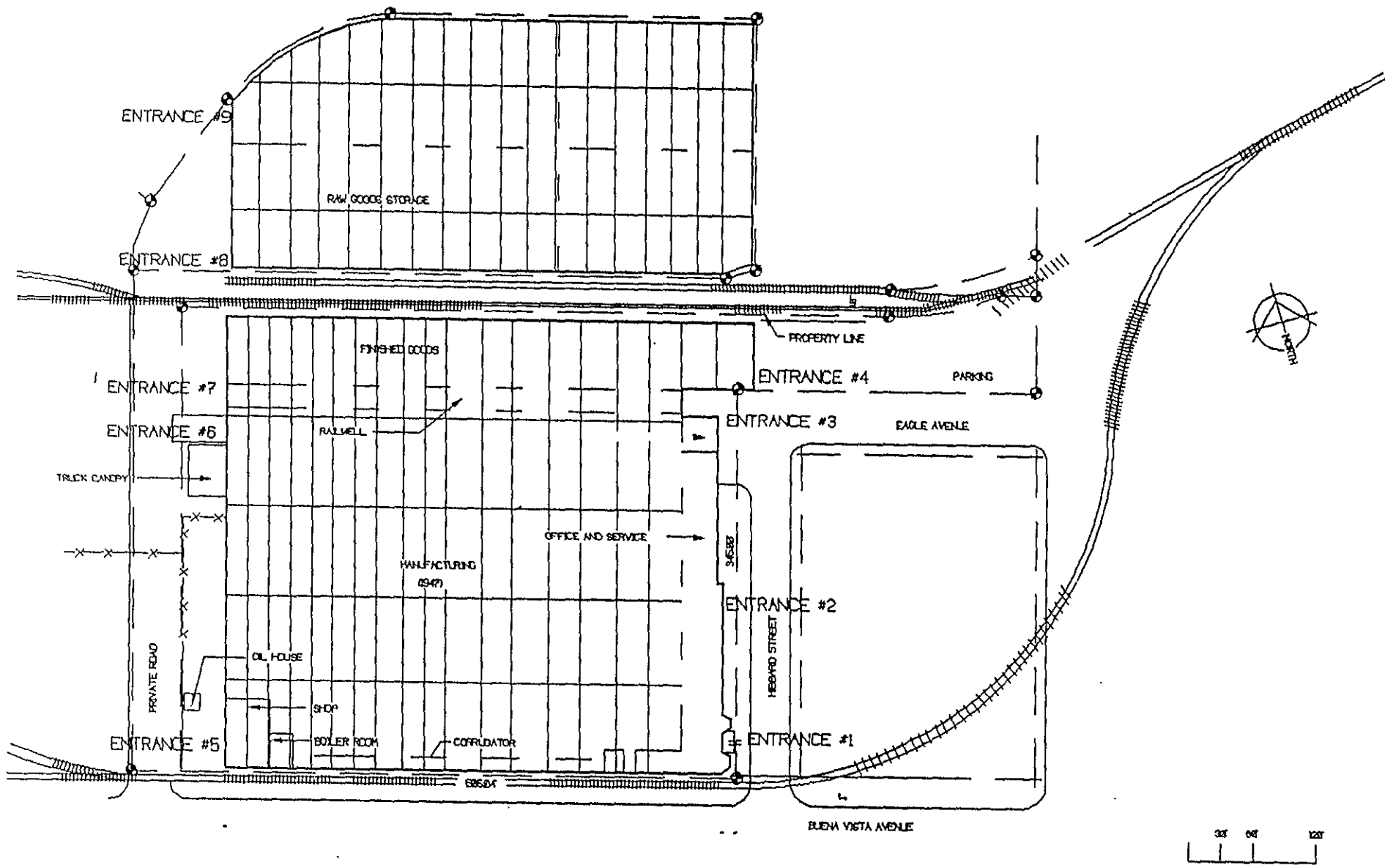
CIVIL DISORDER

COMMUNITY

1. Call the Police and Fire Department (Dial 911).
2. Cease all operations.
3. Recruit volunteers and post Fire and Security Patrols. Do not do this if unsafe or if injury is certain to occur.
4. Notify persons on emergency list.
5. Secure the building and contents as much as possible.
6. Be always mindful of safety of our employees.
7. Resume operations after calm is restored.

EARTHQUAKE

1. Find immediate shelter under stable structure.
2. Stay low to the ground.
3. Evacuate the building using emergency map.
4. Make sure all employees are safe and account for any injuries.
5. Call for medical help if needed.
6. Consult with Production Manager.
7. Release employees and secure building if necessary.



ALAMEDA, CALIFORNIA



PACKAGING PLANT

**SPILL PREVENTION
CONTROL**

AND

COUNTER MEASURE PLAN

DECEMBER 1, 1994

**WEYERHAEUSER COMPANY
ALAMEDA, CALIFORNIA**

SPILL PREVENTION CONTROL AND COUNTER MEASURE

The Weyerhaeuser Company, Alameda, California Containerboard Packaging Facility is located at 1801 Hibbard Street, Alameda, California. The Production Manager of the facility is responsible for Spill Prevention Control measures and employee training related to this subject.

Drainage from the site goes to the City storm drain. See the attached drawing for plant layout and oil storage locations.

Oil stored at the plant site consists of lubricating and hydraulic oils stored in the storage containment area.

All oil storage is located inside the building in a self contained area. The area is illuminated at night for security purposes.

SPILL PREVENTION CONTROL
AND COUNTER MEASURE PLAN

Oil spill reporting procedures consist of the following

- . Observer calls maintenance Foreman and Production Manager
- . Maintenance Foreman begins clean up and coordinates outside help if necessary.
- . Production Manager calls the Operation Manager and Regional Environmental Manager
- . Regional Environmental Manager notifies regulatory agencies as appropriate
- . Operations Manager notifies , City of Alameda and Corporate Offices .

In the event the next level cannot be reached, the caller is responsible for making the next level call.

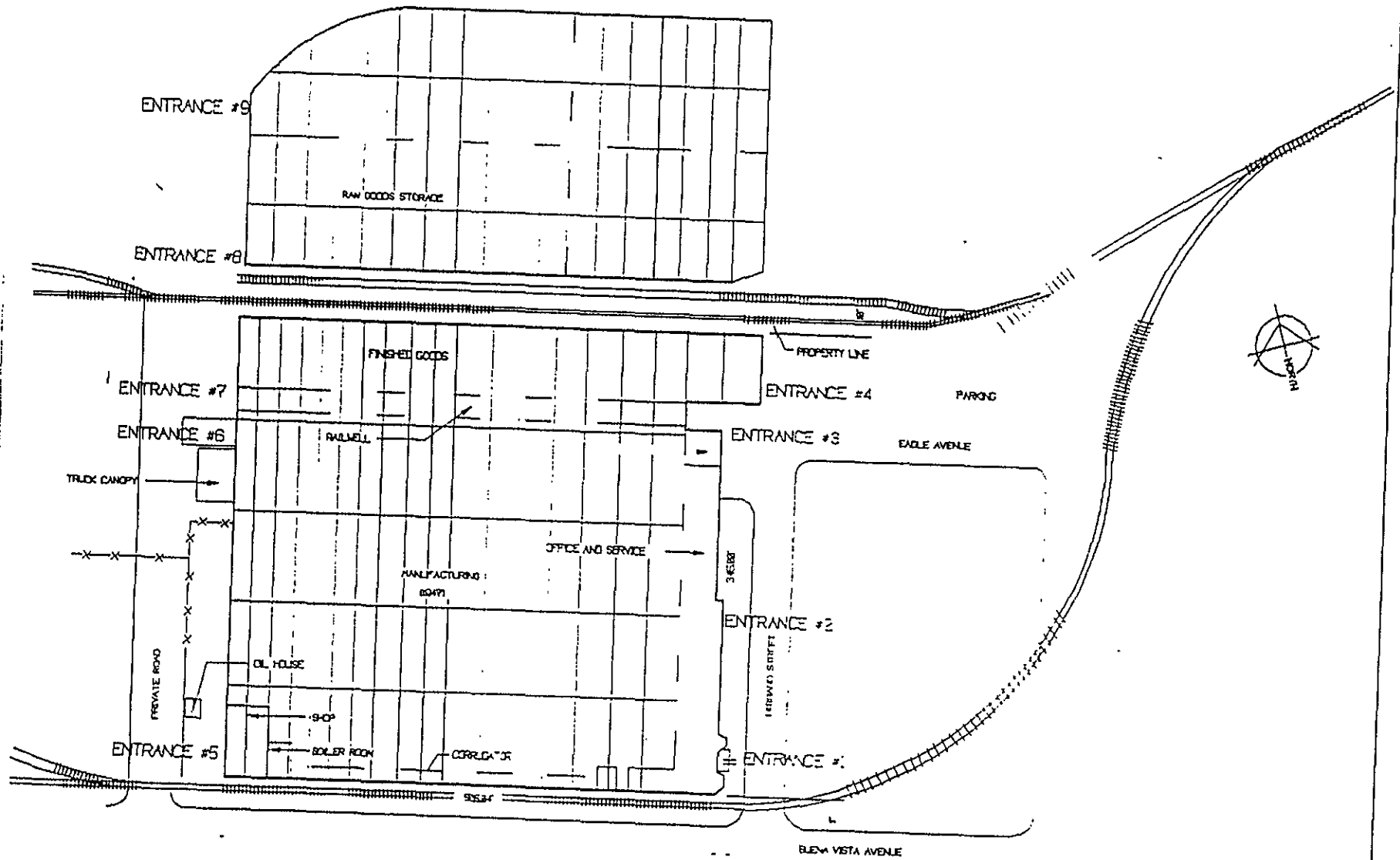
Dana Zehrbach	John Hipner	Bob Stephany
Maintenance Foreman	Production Manager	General Manager

SPILL REPORTING DIRECTORY

TITLE	NAME	OFFICE	HOME	PAGER
Maintenance Foreman	Dana Zehrbach	814-1147	707-5524965	840- 0658
Production Manager	John Hipner	814-1167	371-0806	840- 7184
General Manager	Bob Stephany	814-1104	409-0294	539-2031
Director of Enviornment	Barbara Crowell		206 - 924-7839	

EPA Spill Reporting: 1-800-424-8802

Emergency Response/Superfund 1-415-744-2000 (24 hours)



ALAMEDA, CALIFORNIA



PACKAGING PLANT

ST10 1202
CNY 2/2/94
Bm 3/4/94

Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Hazardous Materials Management Plan

(Part II)

WEYERHAEUSER PAPER COMPANY

(Facility Name and ID)

1801 HIBBARD STREET

(Facility Address)

ALAMEDA, CALIF.

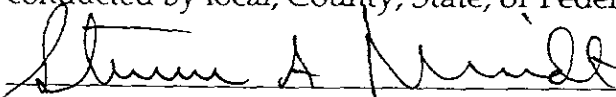
(Facility City)

~~950~~ 94501

ALCO
HAZMAT
94 MAR - 1 PM 2:56

Certification

I hereby certify, under penalty of perjury, that the information contained in this Hazardous Materials Management Plan is, to the best of my knowledge, true and correct. I understand that I may be required to show proof of compliance during any facility inspection conducted by local, County, State, or Federal authorities.



Authorized Signature

STEVE MINDT

Print Name

FEB. 24, 1994

Date

PRODUCTION MANAGER

Title

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN

Facility Information

General Information

1) Facility Name WEYERHAEUSER PAPER COMPANY 2) Facility ID 1202
 3) Street Address 1801 HIBBARD STREET City ALAMEDA Zip 94501
 4) Principle Business Activity MANUFACTURER 5) D&B# 052-01400L 6) SIC Code 2653
 7) EPA ID # CAC 000542872 8) Uniform Building Code Class _____
 9) Mailing Address P.O. DRAWER X City ALAMEDA Zip 94501
 10) Billing Address 1801 HIBBARD STREET City ALAMEDA Zip 94501
 11) # of Shifts 3 12) # Empl 74 # Employees 40 # Empl 33
 Shift 1 Start 7:00A.M Shift 2 Start 3:00P. Shift 3 Start 11:00 P.M.
 Shift 1 End 3:00P.M Shift 2 End 11:00P Shift 3 End 7:00A.M.
 13a) Area of Facility 298,000 SQ. FT. 13b) Hazardous Materials Storage Area 12,200

Facility Contacts

14) Primary Contact STEVE MINDT Work Phone # (510)814-1131
 Title PRODUCTION MANAGER Home Phone # (510)778-2319
 15) Secondary Contact FLOYD SMITH Work Phone # (510)814-1104
 Title GENERAL MANAGER Home Phone # (510)447-5396
 16) Executive Contact FLOYD SMITH Work Phone # (510)814-1104
 Title GENERAL MANAGER Home Phone # (510)447-5396
 17) HMMP Contact MIKE BOURASSA Work Phone # (510)814-1160
 Title ENVIRONMENTAL COORDINATOR Home Phone # (510)779-0512
 18) Property Owner WEYERHAEUSER COMPANY Work Phone # (510)814-1104
 19) Mailing Address P.O. DRAWER X Home Phone # _____
 City ALAMEDA Zip 94501

Land Use Information

19a) Direction	20) Adjacent Business Name	Contact	Phone
<u>N/W</u>	<u>ENCINAL TERMINAL</u>	<u>PETER WANG</u>	<u>(510)523-8800</u>
<u>N/E</u>	<u>PENNZOIL</u>	<u>MICHAEL BENNETT</u>	<u>(510)522-4224</u>
<u>N/E</u>	<u>ALAMEDA ANIMAL SHELDER</u>	<u>SHELLEPTE BASS</u>	<u>(510)748-4585</u>
Direction	21) Special Land Uses	Contact	Phone
<u>S/W</u>	<u>ALAMEDA HOSPITAL</u>	<u>WILLIAM DAL CIELO</u>	<u>(510)522-3700</u>
<u>S</u>	<u>ALAMEDA HIGH SCHOOL</u>	<u>DR. GRETCHEN WHEELWRIGHT</u>	<u>(510)748-4022</u>
<u>S/W</u>	<u>DONALD LUM SCHOOL</u>	<u>PATRICIA KLAUS</u>	<u>(510)748-4009</u>
<u>W</u>	<u>WASHINGTON SCHOOL</u>	<u>CAROL ROBE</u>	<u>(510)748-4007</u>
22) Flood Zone	<u>YES</u>	24) Earthquake	<u>YES</u>
23) Water Table	<u>SEA LEVEL</u>	Faults	<u>HAYWARD FAULT</u>

ADDITIONAL DIRECTION 21:

S NOTRE DAME HIGH SCHOOL ANTHONY AIELLO (510)523-1526

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Emergency Response Equipment

56) Equipment Location Maintenance Shop

57) Responsible Inspector Ernesto Jacinto

58) Inspection Frequency On-going

59) Personal Protective Equipment

- Gloves
- Chemical resistant suit
- Face Shield
- Helmet
- Boots
- Respiratory protection
- Other _____

60) Spill Control Equipment

- Absorbent
- Spill cart
- Pumps/Vacuums
- Neutralizers
- Vapor Scrubber
- Other _____

61) Communication Devices

- Portable Devices
- Telephones
- Pagers
- Other _____

Please make copies of this page as needed.

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN

Emergency Response Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Emergency Response Training

All Personnel

All employees are trained in the following procedures:

- 62) Internal/alarm notification.
- 63) External emergency response organization notification.
- 64) Locations and content of emergency response plan.
- 65) Evacuation procedures.
- 66) Spill procedures.

Chemical Handlers

Chemical handlers are additionally trained in the following:

- 67) Safe method for handling and storage of hazardous materials.
- 68) Proper use of personal protection equipment.
- 69) Locations and proper use of fire and spill control equipment.
- 70) Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e. skin absorption, inhalation, ingestion).

Emergency Response Team

Emergency response team members are additionally trained in the following procedures and will act as liaison to the Fire Department:

- 71) Personnel rescue procedures.
- 72) Shutdown of operations.
- 73) Use, maintenance, and replacement of emergency response equipment.
- 74) Emergency response drills.
- 75) Refresher training is provided at least annually.

Emergency Response Documents

The following training records are maintained for each employee:

- 76) Verification of date that training was completed.
- 77) Description of introductory and continuing training.
- 78) Employee's training records are retained at least three years.
- 79) Description and documentation of facility emergency response drills.

Other

- 79A) No Procedure to be used in event of spill from an underground tank

Your emergency response training plan and training records must be on site and available for review by Alameda County Department of Health

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN

Emergency Response Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Evacuation Information

80) Evacuation Notification

- Verbal (i.e. shouting)
- Horns
- Alarms

81) Evacuation Procedures

The evacuation plan and routes must be submitted with the HMMP and shall include:

- Defined evacuation routes and procedures.
- Preplanned assembly areas.
- Evacuation route maps prominently displayed throughout facility.
- Re-entry procedures.

82) Other Evacuation Planning Information

Emergency Contacts

82a Priority contact phone # (510) 523-6121

Fire/Police/Ambulance 911

83) CA State Office of Emergency Services 1-800-852-7550

84) Other Dept Name _____

85) Nearest Medical Facility Alameda Hospital

Address 2070 Clinton Avenue

City Alameda

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN

Facility Map - Site Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Refer to Map #1

(N)

Scale feet/inch Map # Map Name

Today's Date

Loc
A-
B-
C-
D-
E-

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Facility Map - Storage Detail

Facility Name Weyerhaeuser Paper Company Facility ID 1202

CONFIDENTIAL

Refer to Map #2

(N)

Scale feet/inch

Map # Map Name

Today's Date

Loc
A-
B-
C-
D-
E-
F-

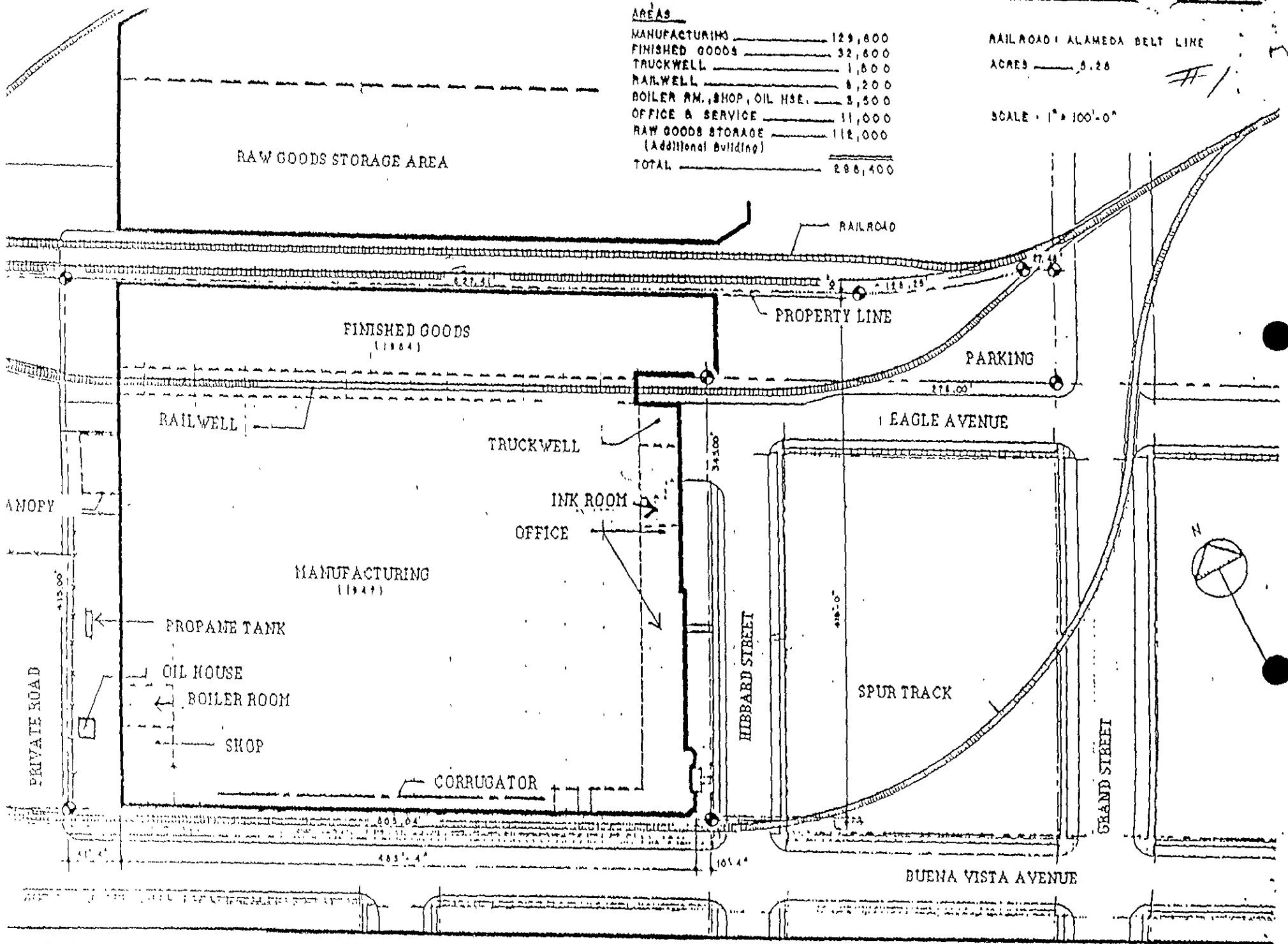
AREAS	
MANUFACTURING	129,800
FINISHED GOODS	32,600
TRUCKWELL	1,800
RAILWELL	8,200
BOILER RM., SHOP, OIL HSE.	3,500
OFFICE & SERVICE	11,000
RAW GOODS STORAGE (Additional Building)	112,000
TOTAL	288,400

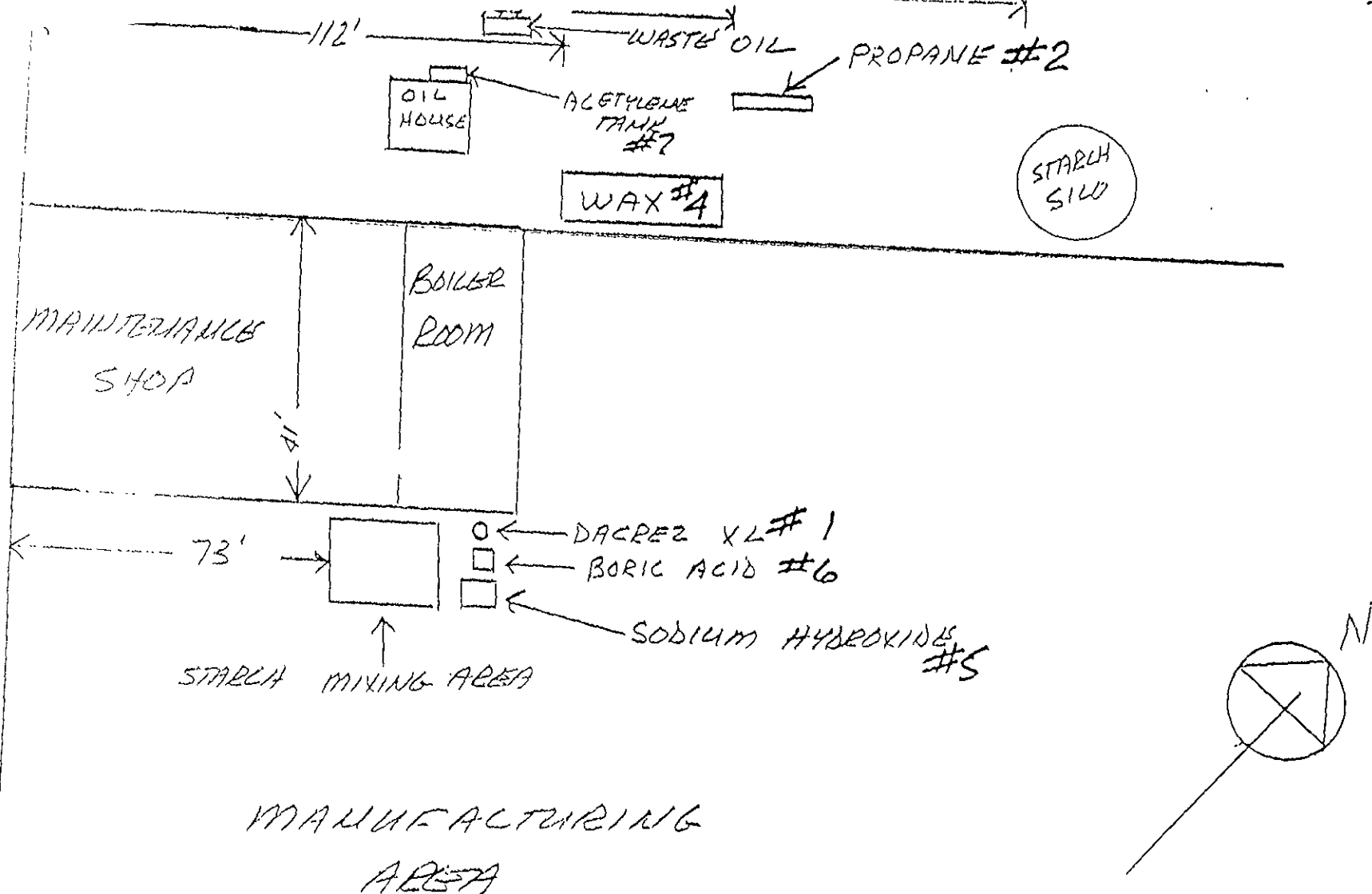
RAILROAD: ALAMEDA BELT LINE

ACRES: 6.28

SCALE: 1" = 100'-0"

#1





WEYERHAEUSER PAPER CO.
1801 HIBBARD
ALAMEDA, CALIF

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a) Waste Code _____
27) Common/Trade Name REFINED WAX 128
28) Manufacturer CHEVRON Phone 510-242-5350

29) Constituent 1	30) CAS # <u>64742454</u>	31) Percent (%) by wt <u>100</u>
Constituent Name <u>PARAFFIN WAX CLAY TREATED</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) WAX
33) MSDS Ref #/ ID Code CPS 260401
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.90
38) DOT Hazard Class NONE 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail					Max	Avg	Max in	Waste	#
Map	Location	Cont. Type	Press	Temp	Daily Amt	Daily Amt	One Vessel	Gener-ated (yr)	Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	4	A	1	2	45000 GL	1005 GL	45000 GL	0	365
Tradename Totals					45000 G	1005 GL	45000 GL	0	365

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information State _____ Federal _____
 25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name :33-9201 RESYN
 28) Manufacturer NATIONAL STARCH Phone 408-685-5000

29)

Constituent 1	30) CAS # _____	31) Percent (%) by wt _____
Constituent Name <u>NONE</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) ADHESIVE
 33) MSDS Ref #/ ID Code 33-9201
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.092
 38) DOT Hazard Class NONE 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Generated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	1	0	1	1	700 GAL	12.4 GL	350 GL	0	365
Tradename Totals					700 GL	12.4 GL	350 GL	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a) Waste Code _____
27) Common/Trade Name LIQUIDIFIED PETROLEUM GAS OR PROPANE
28) Manufacturer SUBURBAN Phone 510-686-5811

29)	Constituent 1	30) CAS #	<u>4-98-6</u>	31) Percent (%) by wt	<u>100</u>
	Constituent Name <u>HYDROCARBON</u>				
	Constituent 2	CAS #	_____	Percent (%) by wt	_____
	Constituent Name _____				
	Constituent 3	CAS #	_____	Percent (%) by wt	_____
	Constituent Name _____				
	Constituent 4	CAS #	_____	Percent (%) by wt	_____
	Constituent Name _____				
	Constituent 5	CAS #	_____	Percent (%) by wt	_____
	Constituent Name _____				

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code _____
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.51
38) DOT Hazard Class FLAMMABLE GAS 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 1 43) Reactivity 0
44) Flammability 4 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Generated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
<u>2</u>	<u>2</u>	<u>A</u>	<u>1</u>	<u>3</u>	<u>1000 GAL</u>	<u>126 GAL</u>	<u>1000 GI</u>	<u>0</u>	<u>365</u>
Tradename Totals					<u>1000 GAL</u>	<u>126 GAL</u>	<u>1000 GI</u>	<u>0</u>	<u>365</u>

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name : LIQUID CAUSTIC SODA 50%
28) Manufacturer PRESSURE VESSEL Phone _____

29)

Constituent 1	30) CAS # _____	31) Percent (%) by wt <u>50</u>
Constituent Name <u>SODIUM HYDROXIDE</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code 0014
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.53
38) DOT Hazard Class CORROSIVE 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	5	A	I	I	400 GAL	52 GAL	400 GAL	0	365
Tradename Totals					400 GAL	52 GAL	400 GAL	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name : ACETYLENE
28) Manufacturer LINDE-UNION CARBIDE Phone _____

29)

Constituent 1	30) CAS # <u>74-86-231</u>	Percent (%) by wt <u>100</u>
Constituent Name _____		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____

33) MSDS Ref #/ ID Code L-4559E

34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No

36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) _____

38) DOT Hazard Class F.G. 39) UNNA# _____ 40) Pressure? _____

41) Health Hazard 0 43) Reactivity 2

44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Generated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	7	L	1	1	682 CF	65 CF	341 CF	0	365
Tradename Totals					682 CF	65 CF	341 CF	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

State _____ Federal _____
 25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name BORIC ACID
 28) Manufacturer KERR MCGEE Phone 209-268-4571

29) Constituent 1	30) CAS # <u>10043353</u>	31) Percent (%) by wt <u>100</u>
Constituent Name <u>BORIC ACID</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
 33) MSDS Ref #/ ID Code _____
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) _____
 38) DOT Hazard Class NONE 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Generated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	6	J	1	1	4000 LB	106 LB	50 LB	0	365
Tradename Totals					4000 LB	106 LB	50 LB	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name WORM GEAR LUBE 140 26a Waste Code _____
28) Manufacturer UNOCAL Phone 800-356-3129

29)	Constituent 1	30) CAS # _____	31) Percent (%) by wt <u>99</u>
	Constituent Name <u>SOLENT DEWAX RESIDUAL OIL</u>		
	Constituent 2	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 3	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 4	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 5	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		

32) Generic Name/Use (optional) GEAR LUBE
33) MSDS Ref #/ ID Code D01172
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.90-0.92
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	D	1	1	55GL	.15 GL	55 GL	0	365
Tradename Totals					55 GL	.15 GL	55GL	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

State _____ Federal _____
 25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name : TRITON GAS ENGINE OIL
 28) Manufacturer UNOCAL Phone 800-356-3129

29) Constituent 1	30) CAS # <u>64742650</u>	31) Percent (%) by wt <u>88.8</u>
Constituent Name <u>DISTILLATE, HEAVY PARAFIN</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) CRANKCASE OIL
 33) MSDS Ref #/ ID Code D01174
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.89
 38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 1 43) Reactivity 0
 44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Generated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	8	A	I	1	110 GL	1.05 GL	110 GL	0	365
Tradename Totals					110 GL	1.05 GL	110 GL	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name : GUARDOL 10 W
28) Manufacturer UNOCAL Phone 800-356-3129

29) Constituent 1	30) CAS # <u>64742543</u>	31) Percent (%) by wt	<u>0-89</u>
Constituent Name <u>HYDROTREATED DISTILLATE, HEAVY PARRAFIN</u>			
Constituent 2	CAS # <u>64742650</u>	Percent (%) by wt	<u>0-89</u>
Constituent Name <u>SOLVENT DEWAX DISTILLIATE, HEAVY PARAFIN</u>			
Constituent 3	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 4	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 5	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			

32) Generic Name/Use (optional) CRANKCASE OIL
33) MSDS Ref #/ ID Code DO-2237
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.88
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 1 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Gener-ated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	8	D	1	1	55 GL	.15 GL	55 GL	0	365
Tradename Totals					<u>55 GL</u>	<u>.15 GL</u>	<u>55 GL</u>	<u>0</u>	<u>365</u>

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal 26a) Waste Code _____
27) Common/Trade Name UNAX AW 32
28) Manufacturer UNOCAL Phone 800-356-3129

29) Constituent 1 30) CAS # 64742650 1) Percent (%) by wt 0-99
Constituent Name SOLENT DEWAXED DISTILLATE, HEAVY PARAFIN
Constituent 2 CAS # 64742547 Percent (%) by wt 0-99
Constituent Name HYDOTREATED DISILLATE, HEAVY PARAFIN
Constituent 3 CAS # _____ Percent (%) by wt _____
Constituent Name _____
Constituent 4 CAS # _____ Percent (%) by wt _____
Constituent Name _____
Constituent 5 CAS # _____ Percent (%) by wt _____
Constituent Name _____

32) Generic Name/Use (optional) INDUSTRIAL OIL
33) MSDS Ref #/ ID Code D02249
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.87
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 1 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	A	1	1	715 GL	1.95 GL	392 GL	0	365
Tradename Totals					715 GL	1.95 GL	392 GL	0	365

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name GUARDOIL MOTOR OIL 20W/20
28) Manufacturer UNOCAL Phone 213-977-7589

29)

Constituent 1	30) CAS # <u>64742650</u>	31) Percent (%) by wt <u>88</u>
Constituent Name <u>SOLVENT DISTILLATE, HEAVY PARAFFIN</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) CRANKCASE OIL
33) MSDS Ref #/ ID Code D0171
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.89
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	D	1	1	55 GL	15 GL	55 GL	0	365
Tradename Totals					55 GL	15 GL	55GL	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name TURBINE OIL HD 92
28) Manufacturer UNOCAL Phone 213-977-7489

29)

Constituent 1	30) CAS # <u>64742650</u>	31) Percent (%) by wt <u>98.4</u>
Constituent Name <u>SOLVENT DEWAXED DISTILLATE, HEAVY PARAFIN</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) INDUSTRIAL OIL
33) MSDS Ref #/ ID Code D00206
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) .90
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map	Location	Cont. Type	Press	Temp	Max Daily Amt	Avg Daily Amt	Max in One Vessel	Waste Generated (yr)	# Days/yr on site
46)	47)	48)	49)	50)	51)	52)	53)	54)	55)
2	8	D	1	1	110 GL	1.05 GL	55 GL	0	365
Tradename Totals					110 GL	1.05 GL	55 GL	0	365

ALAMEDA EMERGENCY RESPONSE TEAM

DATE: February 24, 1993

POSITION	1st SHIFT	2nd SHIFT	3rd SHIFT
FIRE CHIEF	Die Cut Supervisor	Die Cut Supervisor	Die Cut Supervisor
ALTERNATE	Flexo Supervisor	Flexo Supervisor	Flexo Supervisor
PERSON TO CALL FIRE DEPT.	Corrugator Supervisor	Corrugator Supervisor	Corrugator Supervisor
ALTERNATE	SI 1 Operator	SI 1 Operator	SI 1 Operator
PERSON TO PULL TIME CARDS	Bobst Operator	Bobst Operator	Bobst Operator
ALTERNATE	SI 1 Asst. Oper.	SI 1 Asst. Oper.	SI 1 Asst. Oper.
PERSON TO DIRECT FIRE DEPT.	Pul-Pak Driver	Pul-Pak Driver	Pul-Pak Driver
ALTERNATE	246 Operator	246 Operator	246 Operator
SPRINKLER VALVE CONTROLLER	Larry Perez	Ray Jackson	Jose Feria
ALTERNATE	Jim Ealy	Brad Long	Jose Feria
ELECTRICIAN	Ernesto Jacinto	Brad Long	Jose Feria
ALTERNATE	David Avery	Ray Jackson	Jose Feria
VALVE SQUAD	Flexo Supervisor	Flexo Supervisor	Flexo Supervisor
ALTERNATE	Die Cut Supervisor	Die Cut Supervisor	Die Cut Supervisor

DUTIES OF THE EMERGENCY RESPONSE TEAM

A. FIRE CHIEF:

FIRE CHIEF WILL MAKE SURE EVERYONE IS OUT OF THE BUILDING, LET THE FIRE CAPTAIN KNOW IF ANYONE IS MISSING, GIVE THE OK TO RETURN TO WORK AND SUPERVISE THE SALVAGE SQUAD. ALSO NOTIFY THE PRODUCTION MANAGER OF THE SITUATION.

B. PERSON TO NOTIFY THE FIRE DEPARTMENT:

HE/SHE MUST BE FAMILIAR WITH THE PHONE # OF THE LOCAL FIRE DEPARTMENT AND CALL IN THE EVENT OF A FIRE.

C. PERSON TO PULL TIME CARDS AND ACCOUNT FOR EMPLOYEES:

HE/SHE WILL PULL THE TIME CARDS OF ALL EMPLOYEE'S WHO ARE PUNCHED IN. IF THE TIME CARDS ARE IN THE OFFICE, THE ACCOUNTING DEPARTMENT WILL TAKE THE TIME CARDS. HE/SHE WILL TAKE ROLL IN AREA "A" ON THE EVACUATION MAP AND REPORT ANY MISSING EMPLOYEES TO THE FIRE CHIEF.

D. PERSON TO DIRECT THE FIRE DEPARTMENT TO THE FIRE:

HE/SHE WILL STAND AT THE CORNER OF HIBBARD AND BUENA VISTA AND DIRECT THE THE FIRE DEPARTMENT.

E. SPRINKLER VALVE CONTROLLER:

HE/SHE MUST KNOW LOCATIONS OF ALL VALVES AND HOW TO OPERATE THEM. HIS/HER MAIN FUNCTION IS TO MAKE SURE THE VALVE CONTROLLING THE FIRE AREA IS OPEN UNTIL ORDERED SHUT BY THE FIRE CHIEF.

F. ELECTRICIAN:

HE/SHE MUST KNOW THE LOCATIONS OF ALL SWITCHES CONTROLLING THE POWER. HE/SHE MUST KNOW HOW TO SHUT DOWN THE NECESSARY EQUIPMENT. HE/SHE SHALL STAND READY TO MAKE TEMPORARY CONNECTIONS IF NEEDED.

G. SALVAGE SQUAD:

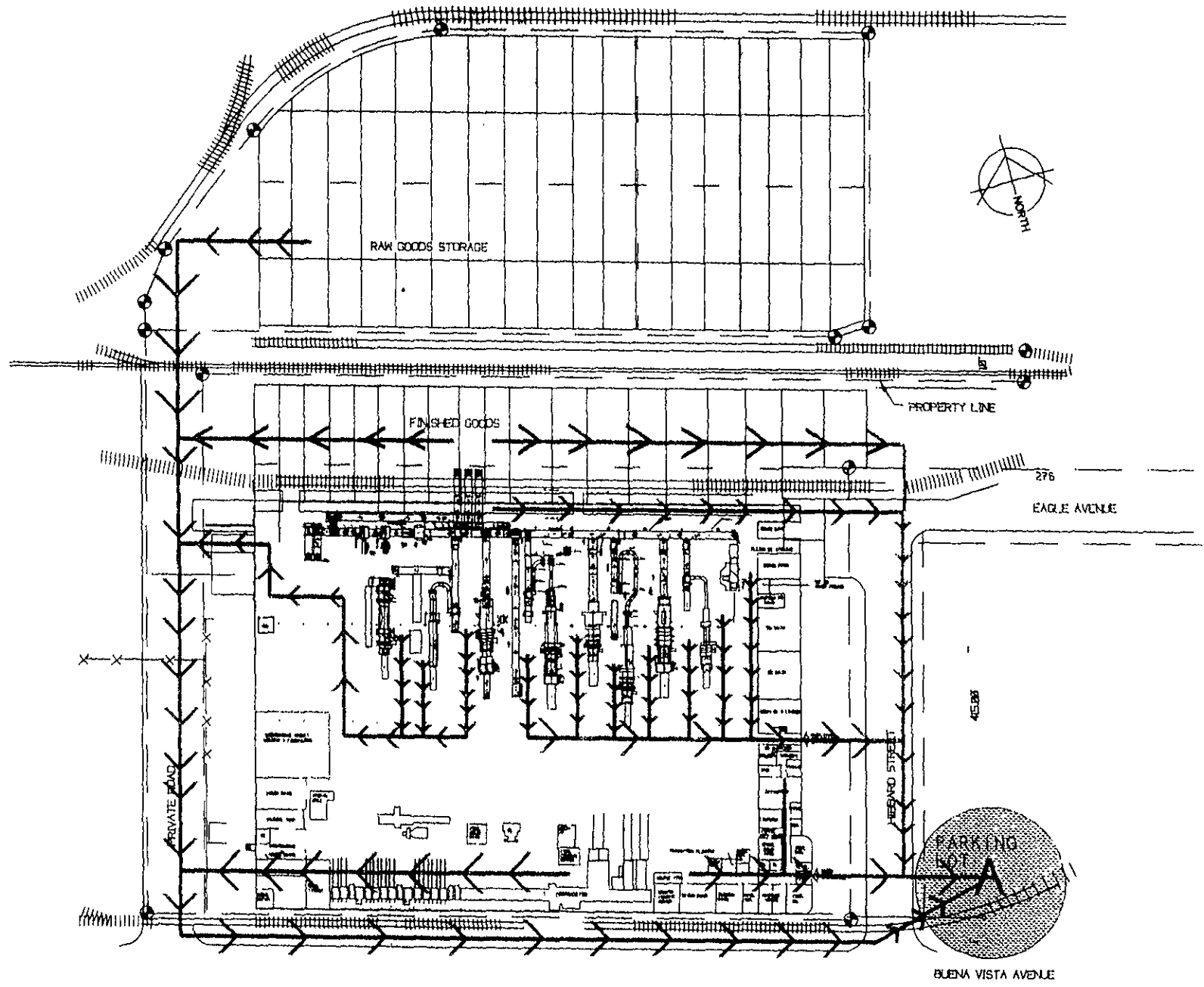
IN CHARGE OF CLEAN UP AND SALVAGING WHAT WAS NOT DAMAGED.

TO ALL EMPLOYEES

MANAGEMENT HAS DRAFTED A SET OF PLANT EVALUATION PROCEDURES WHICH SHOULD MINIMIZE ANY CONFUSION IN THE EVENT OF AN EMERGENCY. PLEASE READ THE FOLLOWING CAREFULLY.

1. WHEN ALARM GOES OFF, STOP EVERYTHING. DON'T PICK UP TOOLS, SWEATERS, OR ANY OTHER PERSONAL ITEMS.
2. DO NOT RUN. WALK AT ALL TIMES IN A HURRIED MANNER.
3. AFTER EVACUATING THE PLANT, REPORT TO AREA "A" ON THE EVACUATION MAP, THE DIRT PARKING LOT ACROSS FROM THE MAIN OFFICE. ROLL CALL WILL BE TAKEN THERE.
4. DO NOT GET IN YOUR CAR. DO NOT LEAVE THE AREA. YOU WILL BE INSTRUCTED WHEN YOU CAN LEAVE AND RETURN TO WORK. ONCE AGAIN, DO NOT GET INTO YOUR CAR AND LEAVE.

#2



ALAMEDA SHIPPING CONTAINER PLANT EMERGENCY PLAN

THIS PLAN COVERS MOST EMERGENCIES

IT SHOULD BE USED WHEN AN EMERGENCY OCCURS EITHER DAY OR NIGHT.

IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO COVER ANY EVENTUALITY, USE COMMON SENSE.

EACH MANAGER MUST BE FAMILIAR WITH THIS PLAN.

ALL BOOKS ARE CODED AND ASSIGNED BY NUMBER.

- #1 Bob Stephany (home copy)
- #2 Bob Stephany (work copy)
- #3 John Hipner (home copy)
- #4 John Hipner (work copy)
- #5 Danny Bergeron
- #6 Dick Dixon
- #7 Steve Hill
- #8 Yolanda Torres (home copy)
- #9 Yolanda Torres (work copy)
- #10 Supervisor's Desk
- #11 Shipping Office
- #12 Maintenance Office
- #13 Corrugator Office
- #14 Dana Zehrbach (home copy)
- #15 Dana Zehrbach (work copy)
- #16 First Aid Room
- #17 Front Office (office copy)

PHONE NUMBERS

EMERGENCY

FIRE	911
POLICE	911
AMBULANCE	911
CALIFORNIA HIGHWAY PATROL	DIAL -0- ASK THE OPERATOR OR ZENITH 1-2000
ALAMEDA HOSPITAL	522-3700
CALIFORNIA INDUSTRIAL MEDICAL CLINIC (Readi-Care)	638-0701

NON-EMERGENCY

FIRE DEPARTMENT - ALAMEDA	522-2423
POLICE - ALAMEDA	748-4508
CALIFORNIA HIGHWAY PATROL	658-9111
F.B.I. - OAKLAND	451-9782
ALAMEDA HOSPITAL	522-3700
BUREAU OF ELECTRICITY	522-7411
PACIFIC GAS AND ELECTRIC	834-1234
ADT	(415) 997-7800

EMERGENCY NUMBERS

LOCATION: 1801 Hibbard St.
Alameda, CA 94501

FIRE	911
AMBULANCE	911
POLICE	911
SECURITY MANAGER	222-4295
BURNS OFFICE	222-4295
BURNS DISPATCH AND SUPERVISOR	801-3742 (pager) 409-3905 (cellular)
SECURITY SUBJECTS	800-322-4870

WEYERHAEUSER COMPANY

1st PERSON TO CALL	JOHN HIPNER	371-0806 (home) 840-7184 (pager)
2nd PERSON TO CALL	BOB STEPHANY	539-2031 (pager) 846-1095 (home) 814-1104 (voicemail)
3rd PERSON TO CALL	YOLANDA TORRES	376-3304 (home) 840-8330 (pager)

If you are unable to contact any of the above three persons, then the person identifying the emergency should contact Dan Pyne.

Region Office: (510)830-1240
Voice Mail: (206) 924-5630 Box #: 9033 then press #

A message will be left at any of the above two numbers.

Updates: Dan Pyne is to receive updates on the emergency EVERY FOUR HOURS.

EMERGENCY RESPONSE TEAM

The following individuals have volunteered and have been trained in CPR, First Aid and Blood Borne Pathogen:

OFFICE

Yolanda Torres
Danny Bergeron
Dick Dixon
Steve Hill
Ben Casillas
Danny Trujillo
John Hipner

SUPERVISORS

Ernesto Leyva
Carlos Santos
Bill Gay
Pete Gregory
George Jones
Terry Jackson
Duane Vigil

CORRUGATOR

Alfredo Ramirez
Reccel Jones
Miguel Gaitan

SHIPPING

Bob Anthon
Bob Bartolero
Robert Romero
Mike Frese
Mike Galindo
Jerry Manis
Larry Pasley

PLANT

Ralph Manzo

FINISHING

Danny Viray
Liz Crua
Salvador Arrellano
Juan Macias
Glen Garcia
Manuel Cardenas
Mimon Asraf
Joe Sheppard
Al Pura
Jose Ponce
Robert Helsel
Hector Marquina
Fernando Delgadillo
Mariano Ponce
Richard Dangerfield
Anita Wright
Hector Del Rio

MAINTENANCE

Dana Zehrbach
Gary Weese
David Anderson
Barry Palo
Jaime Frontera

TO ALL EMPLOYEES

Management has drafted a set of plant evacuation procedures which should minimize any confusion in the event of an emergency. Please read the following carefully.

1. When the alarm goes off, stop everything. Don't pick up tools, sweaters, or any other personal items.
2. Do not run, walk at all times in a hurried manner.
3. After evacuating the plant, report to area marked "A" on the evacuation map, the dirt parking lot across from the main office. Roll call will taken there.
4. Do not get in your car and leave the area. You will be instructed when you can leave and return to work. Once again, do not get into your car and leave.
5. Shipping, Maintenance, Corrugator and Finishing Supervisors are required to have a radio to communicate to each other.

FIRE

DO THE FOLLOWING:

1. Call the Fire Department
2. Evacuate the building, including the office, proceed to vacant dirt lot across the street...(Hibbard and Buena Vista)
3. Call the roll off the manning schedule and roll call sheet
4. Insure Emergency Response Team members are responding
5. Brief Fire Department contact person on location of fire and send to corner of Buena Vista and Hibbard
6. Notify Managers listed under "PERSONAL" Tab in this book
7. Monitor progress of fire and all employee actions
8. At end of fire, if building is safe, re-enter
9. Organize and complete clean up
10. Return to work, as appropriate
11. In case of injuries, the General Manager, the Production Manager or the Human Resources Manager will notify families

DUTIES OF THE EMERGENCY RESPONSE TEAM

A. FIRE CHIEF:

Fire Chief will make sure everyone is out of the building.
Let the First Captain know if anyone is missing.
Give the OK to return to work and supervise the salvage squad.
Notify the Production Manager of the situation.

B. PERSON TO NOTIFY THE FIRE DEPARTMENT:

He/She must be familiar with the phone # of the local Fire Department and call in the event of a fire. Pull the alarm if necessary.

C. PERSON TO GET THE MANNING SCHEDULE AND ACCOUNT FOR EMPLOYEES:

He/She will take roll in the Area "A" on the evacuation map off the manning and roll call sheet and report any missing employees to the Fire Chief.

D. PERSON TO DIRECT THE FIRE DEPARTMENT TO THE FIRE:

He/She will stand at the corner of Hibbard and Buena Vista and direct the Fire Department.

E. SPRINKLER VALVE CONTROLLER:

He/She must know locations of all valves and how to operate them. His/Her main function is to make sure the valve controlling the fire area is open until ordered shut by the Fire Chief.

F. ELECTRICIAN:

He/She must know the locations of all switches controlling the power. He/She must know how to shut down the necessary equipment. He/She shall stand ready to make temporary connections if needed.

G. PERSON TO DIRECT TRUCKERS IN BACK LOT

In charge of ensuring that truckers do not enter the back lot during an emergency.

H. SALVAGE SQUAD:

In charge of clean up and salvaging what was not damaged.

DUTIES OF THE EMERGENCY RESPONSE TEAM

I. WALK THROUGH MAINTENANCE:

As person evacuates the plant, they will walk through the Maintenance area and check:

- Break Room
- Maintenance Office
- Stock Room
- Boiler Room

J. ROOF:

Check the access for the roof. Check to see if anyone has signed in and no one is left behind. There are two locations which need to be checked:

- Corrugator side access
- Finishing side access - (Die Room)

K. ROLL SHED:

Walk through the roll shed area and check if everyone is out.

ALAMEDA EMERGENCY RESPONSE TEAM

DATE: JANUARY, 1996

	POSITION	1 st SHIFT	2 nd SHIFT	3 rd SHIFT
A	FIRE CHIEF ----- ALTERNATE	FINISHING SUPERVISOR ----- NEXT SENIOR PERSON ON PRODUCTION FLR	FINISHING SUPERVISOR ----- NEXT SENIOR PERSON ON PRODUCTION FLR	FINISHING SUPERVISOR ----- NEXT SENIOR PERSON ON PRODUCTION FLR
B	PERSON TO CALL FIRE DEPT. ----- ALTERNATE	CORRUGATOR SUPERVISOR OR PERSON WHO FIRST OBSERVES ----- FINISHING SUPERVISOR	CORRUGATOR SUPERVISOR OR PERSON WHO FIRST OBSERVES ----- FINISHING SUPERVISOR	CORRUGATOR SUPERVISOR OR PERSON WHO FIRST OBSERVES ----- FINISHING SUPERVISOR
C	PERSON TO CALL ROLL ----- ALTERNATE	511 MACHINE OPERATOR ----- 511 ASST. OPERATOR	511 MACHINE OPERATOR ----- 511 ASST. OPERATOR	511 MACHINE OPERATOR ----- 511 ASST. OPERATOR
D	PERSON TO DIRECT FIRE DEPT. ----- ALTERNATE	PUL-PAK DRIVER ----- FINISHING DRIVER (Extra)	PUL-PAK DRIVER ----- FINISHING DRIVER (Extra)	PUL-PAK DRIVER ----- FINISHING DRIVER (Extra)
E	SPRINKLER VALVE CONTROLLER ----- ALTERNATE	SHIFT MECHANIC ----- SHIFT MECHANIC	SHIFT MECHANIC ----- SHIFT MECHANIC	SHIFT MECHANIC ----- SHIFT MECHANIC
F	ELECTRICIAN ----- ALTERNATE	SHIFT MECHANIC ----- SHIFT MECHANIC	SHIFT MECHANIC ----- SHIFT MECHANIC	SHIFT MECHANIC ----- SHIFT MECHANIC

G	TRUCKS - BACK LOT	SHIPPING AND RECEIVING CLERK	SHIPPING AND RECEIVING CLERK	SHIPPING AND RECEIVING CLERK
	----- ALTERNATE	----- ROLL TRUCK DRIVER	----- ROLL TRUCK DRIVER	----- ROLL TRUCK DRIVER
H	SALVAGE SQUAD	FINISHING SUPERVISOR	FINISHING SUPERVISOR	FINISHING - SUPERVISOR
	----- ALTERNATE	----- CORRUGATOR SUPERVISOR	----- CORRUGATOR SUPERVISOR	----- CORRUGATOR SUPERVISOR
I	MAINTENANCE	WET END CORRUGATOR	WET END CORRUGATOR	WET END CORRUGATOR
	----- ALTERNATE	----- CORRUGATOR SUPERVISOR	----- CORRUGATOR SUPERVISOR	----- CORRUGATOR SUPERVISOR
J	ROOF	CORRUGATOR SUPERVISOR	CORRUGATOR SUPERVISOR	CORRUGATOR SUPERVISOR
	----- ALTERNATE	----- CORRUGATOR SUPERVISOR	----- CORRUGATOR SUPERVISOR	----- CORRUGATOR SUPERVISOR
K	ROLL SHED	SHIPPING SUPERVISOR	SHIPPING SUPERVISOR	SHIPPING SUPERVISOR
	----- ALTERNATE	-----	-----	-----

ROLL CALL

Name of person taking Roll Call:

Date of Emergency:

Nature of Emergency:

Which shift:

Time:

Your responsibility as roll caller is to call out each of the departments, as listed on the back and the operator for each department will respond whether an individual is missing or if their department is accounted for. Once you have determined everyone's status, you are to give this information to the Supervisor in charge (Fire Chief) and they will make review it with the Fire Captain (Fire Department).

Example:

You are to simply yell out (using the bull horn)... Flexo...510..... and wait for an answer. Then check off that everyone is all accounted for or write down any missing employee's name.

<u>Flexos</u>	<u>MISSING</u>
510	_____
511	_____
517	_____
Post	_____
Preset	_____

	<u>MISSING</u>
Die Cuts	_____
Press	_____
Bobst	_____
Rotary 241	_____
Rotary 246	_____

	<u>MISSING</u>
Janitor	_____
Die Mount	_____
Unitier	_____
Waxer	_____

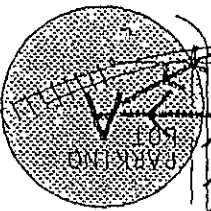
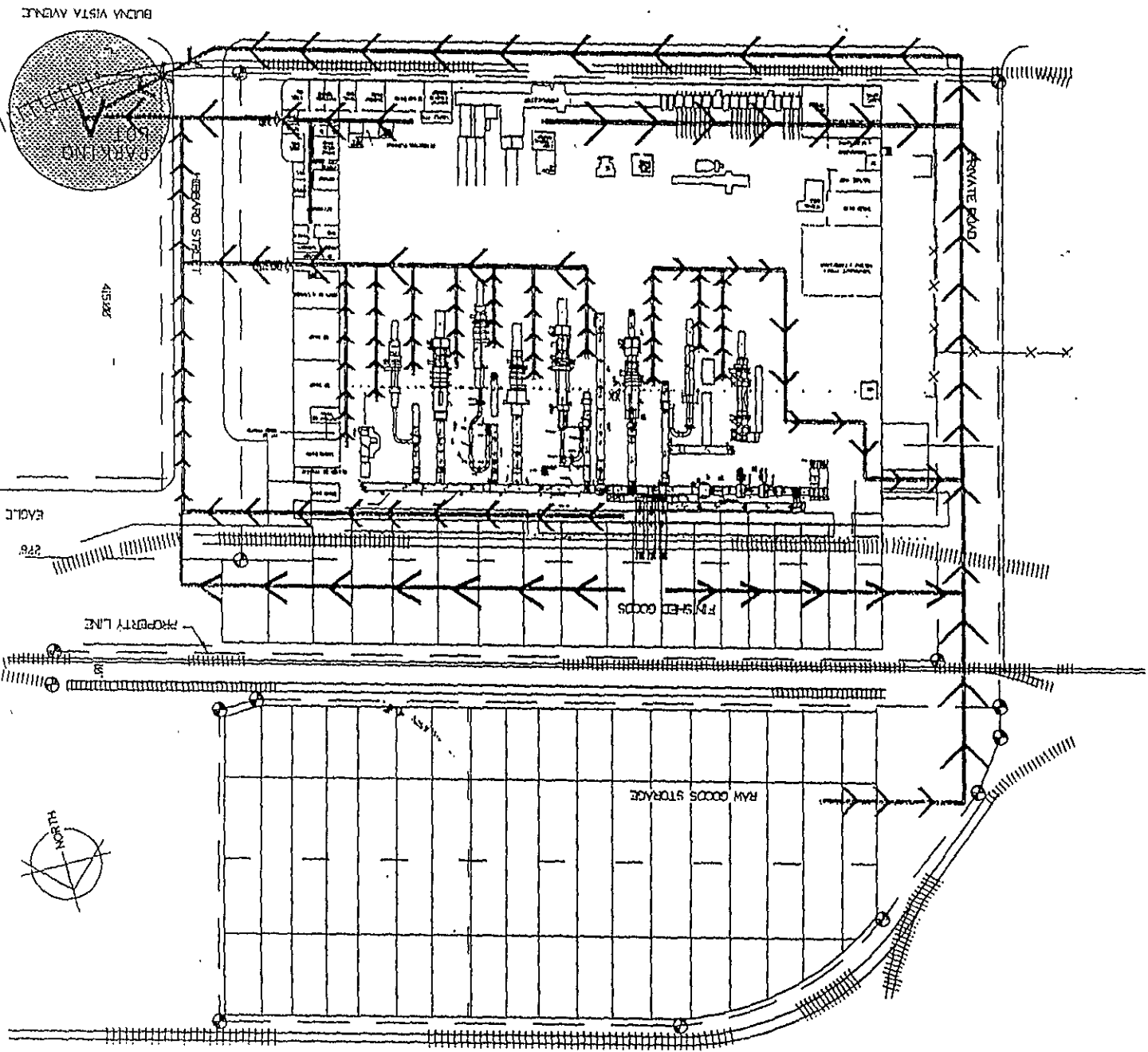
<u>Shipping</u>	<u>MISSING</u>
(Shipping Supervisor should respond)	
Pull Pak	_____
Rollstock	_____
Clerks	_____
TAF Drivers	_____

<u>Corrugator</u>	<u>MISSING</u>
(Dry End Operator should respond)	
_____	_____
_____	_____
_____	_____
Starch	_____
Bailer	_____

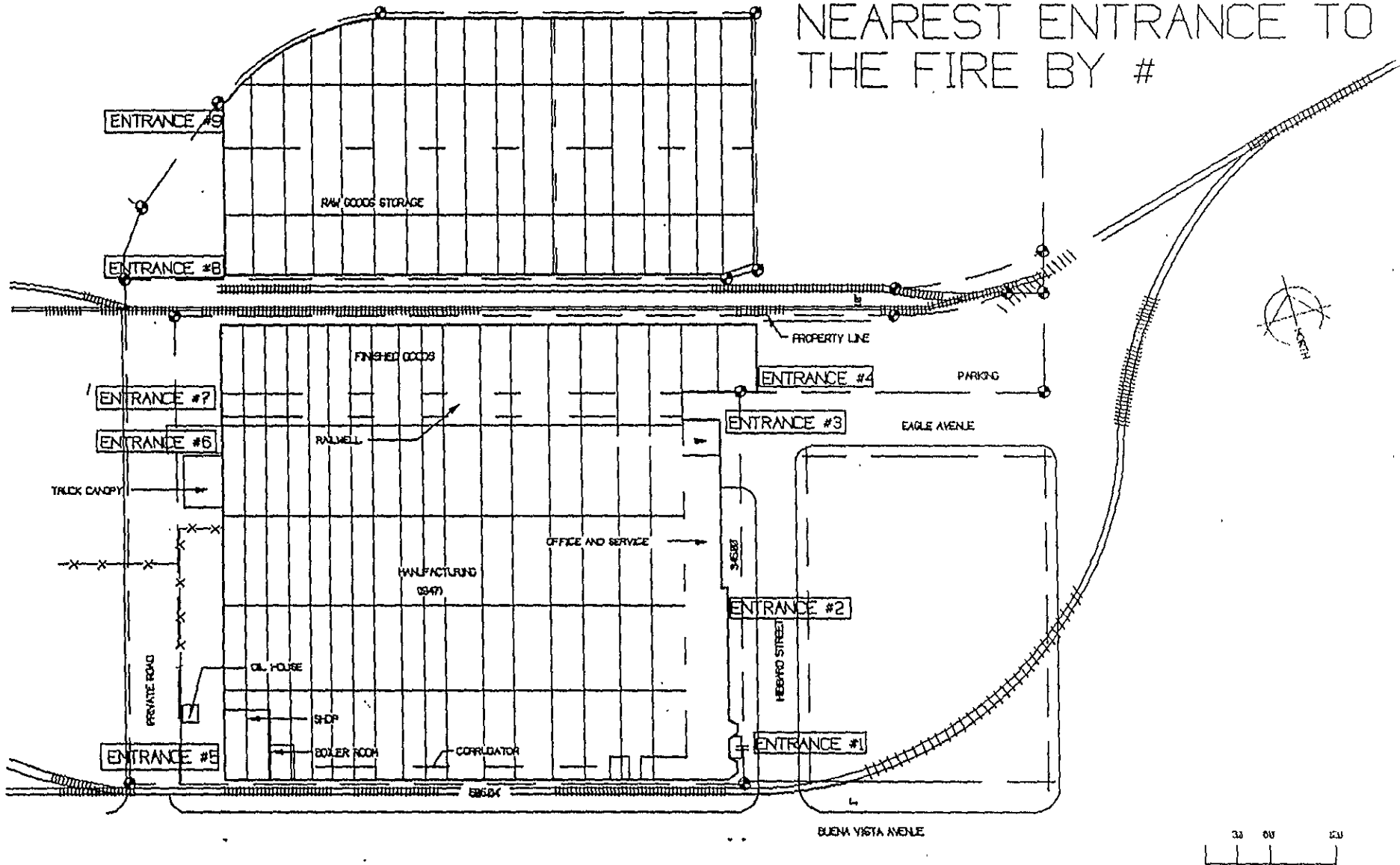
<u>Maintenance</u>	<u>MISSING</u>
_____	_____
_____	_____
Contractors	_____
_____	_____
_____	_____

<u>OFFICE</u>	<u>MISSING</u>
General Mgr.	_____
Production Mgr.	_____
Production Plng	_____
Sales	_____
Design	_____
Customer Svc.	_____
Accounting	_____
Quality	_____
Human Res.	_____

<u>SUPERVISORS</u>	<u>MISSING</u>
Shipping	_____
Finishing	_____
Corrug.	_____
WORKING FOREMAN	
_____	_____
_____	_____



IN CASE OF FIRE DIA
911 GIVE LOCATION OF
NEAREST ENTRANCE TO
THE FIRE BY #



ALAMEDA, CALIFORNIA



PACKAGING PLANT

FATALITY REPORTING PROCEDURE

FATALITY PROCEDURE

The management of Weyerhaeuser Company believes that no phase of its operation

or administration is of greater importance than prevention of industrial injury. As an integral part of our total occupational safety and health program, accident investigation is especially important as a means to determine cause, uncover indirect accident causes, prevent similar accidents from occurring, document facts, provide information on costs and promote safety.

A fatality shocks each of us and imposes special moral, legal and economic obligations that have ramifications beyond the local unit. Managing fatalities requires teamwork among representatives of all levels of the Company so that the best interests of the deceased, his or her family, the corporation and the stockholders are served.

The following is a brief on how the local unit and Corporate should respond to an industrial fatality.

HOW SHOULD THE COMPANY RESPOND TO FATALITIES?

PRIORITY ORDER

- * Immediate supervisor and most senior local manager notify family (in person) immediately.
- * Notify Regional V.P. immediately.
- * Notify Corporate Safety within 24 hours
Send copy of written documentation upon completion of investigation.
- * Inform Senior management and other key corporate personnel within 24 hours.
- * Notify federal/state OSHA within 24 hours or other applicable state or federal agencies (DOT, FRA).
- * Commence thorough investigation that meets federal, state and Corporate standards
WITHIN 24 HOURS of incident.
- * Determine most probable cause(s) and take prompt remedial action to prevent recurrence.
- * Thoroughly describe and document all situations, conditions, actions involved in incident.

PRIMARY

RESPONSIBILITY

- Local Unit Management
- Local Unit Management
- Local Unit Management
- Corporate Safety & Health
- Local Management
Corporate Safety & Health
- Local Management
Corporate Safety & Health
- Local Management
Corporate Safety & Health
- Local Management

HOW SHOULD THE COMPANY RESPOND TO FATALITIES?

(continued)

PRIORITY ORDER

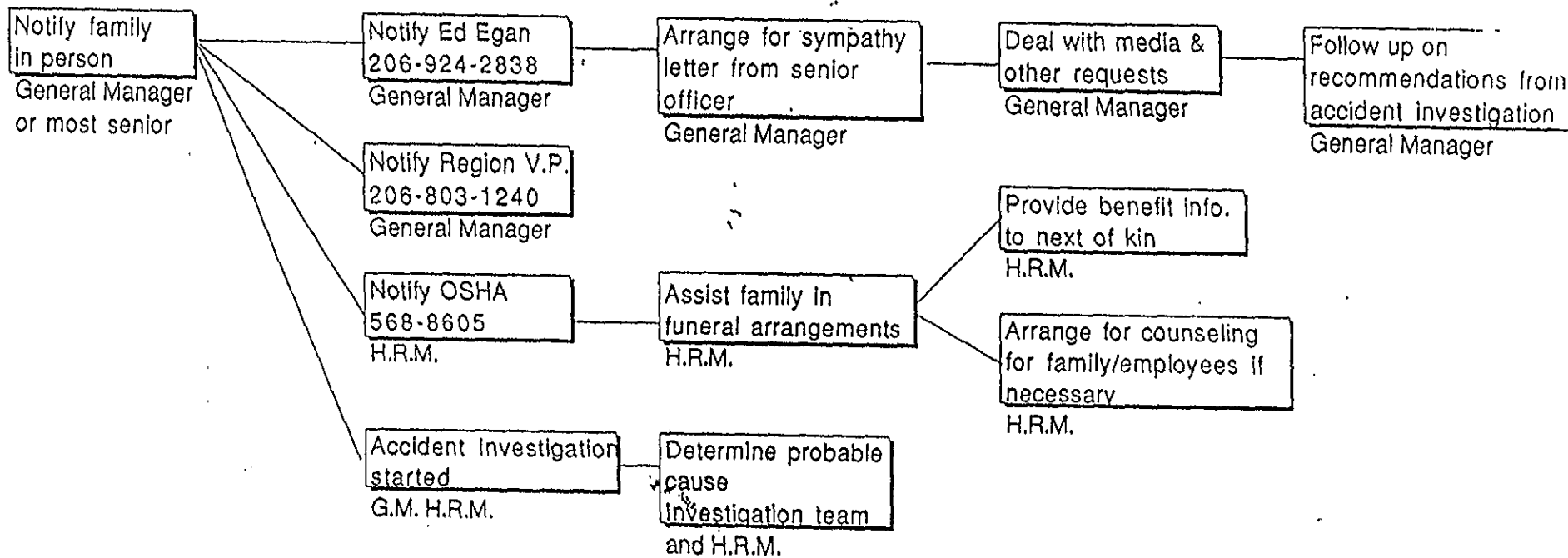
PRIMARY

RESPONSIBILITY

- | | |
|---|---|
| * Assist family in funeral arrangements.
Provide necessary amenities, attend funeral. | Local Management |
| * Send sympathy letter to family or next of kin
signed by President or Senior Company Officer. | Regional Vice President/
Branch/Zone Manager |
| * Provide contact for next of kin to explain benefits. | Local Management |
| * Arrange for counseling as necessary to family and
affected employees. | Local Management |
| * Deal with media and individuals wishing to visit site. | Local Management |
| * Communicate "lessons learned" to other similar
Company operations. | Corporate Safety & Health |
| * Follow up on recommendations of accident
Investigation. | Local Management |
| * Note to responsible Group Vice President
(60 days after incident) on appropriate questions
to ask local management. | Corporate Safety & Health |
| * Group Vice President review accident report
and remedial action taken. Follow up as desirable. | Group Vice President |

ALAMEDA FATALITY RESPONSE FLOW CHART

IMMEDIATELY
24 HOURS
48 HOURS
AS APPROPRIATE



Fatality Report Weyerhaeuser Company

(To Be Completed For All Fatal Injuries)

Location _____

To: Safety Manager – Corporate

Date: _____

Name of Deceased: _____

Social Security Number: _____

Dependents (names & addresses, including children's names and ages):

Date of Birth: _____

Years Employed: _____

Occupation: _____

Previous Experience in the Industry:

Date of Injury: _____

Time of Injury: _____

Date of Death: _____

Place of Death: _____

Weather Conditions: _____

Apparent Physical Condition:

(Such as eyesight, glasses, hearing or physical defects; if physical exam available, what did it show?)

OSHA Directory

Division Headquarters

	Address	Phone
San Francisco	445 Golden Gate, Room 5202 San Francisco 94102	
Chief		(415) 703-4341
Deputy Chief, Health & Technical Services		(415) 703-4341
Deputy Chief, Field Operations (Safety)		(415) 703-4341
Assistant to Chief		(415) 737-2959
Office Services Manager		(415) 737-2946
Administration		(415) 737-2600
Information		
- Public		(415) 737-2818
- Management		(415) 737-2856
- Library		(415) 737-2843
Personnel		(415) 737-2914
Research & Standards		(415) 737-2932
Evaporator Headquarters		(415) 557-2604
Pressure Vessels Headquarters		(415) 557-1009

Regional Offices

Albany	2100 E. Katella, Suite 125, 92806	(714) 939-8611
Albany	3550 W. Sixth Street, Room 413, 90020	(213) 736-4911
Albany	2424 Arden Way, Suite 125, 95825	(916) 920-6127
San Francisco	1390 Market Street, Suite 822, 94102	(415) 577-8640

District Offices

Albany	2100 E. Katella, Suite 140, 92806	(714) 939-0145
Albany	4800 Stockdale Hwy, Suite 212, 93309	(805) 395-2718
Albany	1465 Enea Circle, Bldg. E, Suite 900, 94520	(510) 676-5333
Albany	1123 S. Parkview, Suite 100, 91724	(818) 966-1166
Albany	2550 Mariposa Street, Room 4000, 93721	(209) 445-5302
Albany	3550 W. Sixth Street, Room 431, 90020	(213) 736-3041
Albany	1209 Woodrow, Suite C-4, 95350	(209) 576-6260
Albany	7700 Edgewater Drive, Suite 125, 94621	(510) 568-8602
Rivera	9455 E. Slauson Avenue, 90660	(213) 949-7827
Albany	381 Hemsted Drive, 96002	(916) 224-4743
Albany	2424 Arden Way, Suite 165, 95825	(916) 920-6123
Albany	2424 Arden Way, Suite 485, 95825	(916) 920-6004
Albany		(916) 920-6361
Albany	242 E. Airport Drive, Suite 103, 92408	(714) 383-4321
Albany	7807 Convoy Court, Suite 140, 92111	(619) 237-7325

Cal/OSHA Directory

San Francisco	1390 Market Street, Suite 718, 94102	(415) 557-1677
- Elevators		(415) 557-1130
San Jose	2010 N. First Street, Suite 401, 95131	(408) 452-7288
San Mateo	1900 S. Norfolk Street, Suite 215, 94403	(415) 573-3812
Santa Rosa	1221 Farmers Lane, Suite 300, 95405	(707) 576-2388
Torrance	680 Knox Street, Suite 100, 90502	(310) 516-3734
Van Nuys	6150 Van Nuys Blvd, Suite 405, 91401-3379	(818) 901-5403
- Elevators		(818) 901-5411
Ventura	1655 Mesa Verde, Room 150, 93003	(805) 654-4581

Field Offices

Chico	555 Rio Lindo, Suite A, 95926	(916) 895-4761
Eureka	619 Second Street, Room 109, 95501	(707) 445-6611
Salinas	1164 Monroe Street, Suite 1, 93906-3564	(408) 443-3050
Santa Fe Springs	10350 Heritage Park Drive, Suite 201, 90670	(213) 944-7676
Stockton	31 E. Channel Street, Room 418, 95202	(209) 948-7762
Ukiah	620 Kings Court, Suite 5, 95482	(707) 463-4783

Standards Board

Sacramento	1006 4th Street, 3rd Floor, 95814-3372	(916) 322-3640
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Appeals Board

Sacramento - Information	1006 4th Street, 4th Floor, 95814	(916) 322-5080
Members & Executive Officers		

Consultation Services Headquarters

San Francisco	455 Golden Gate Avenue, Room 5246, 94102	(415) 703-4050
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Consultation Services Field Offices

Fresno	1901 N. Gateway Blvd, Suite 102, 93727	(209) 454-1295
Sacramento	2424 Arden Way, Suite 90, 95825	(916) 920-6131
San Diego	7827 Convoy Court, Suite 406, 92111	(619) 279-3771
San Mateo	3 Waters Park Drive, Suite 230, San Mateo 94403	(415) 573-3862
Santa Fe Springs	10350 Heritage Park Drive, Suite 201, 90670	(310) 944-9366

EXPLOSION

1. Pull alarm to evacuate the building.
2. Call 911 - and request Fire and Medical help.
3. Account for all employees (take roll call): make a list of any persons injured or killed.
4. Keep all personnel a safe distance away and await further instructions.
5. Assign maintenance personnel to assist where possible and safe.
6. Notify personnel on emergency list.
7. General Manager, Production Manager or Human Resource Manager will notify relatives, staff, or others, as appropriate.

BOMB THREAT

1. Keep the person talking as long as possible (Use the attached form as a guide).
2. Pull alarm to evacuate the building and account for employees.
3. Call the Police (Dial 911).
4. Fill out the attached form.
5. Notify personnel on the emergency list.
6. Keep all personnel at a safe distance until the building has been cleared for re-entry.

Bomb Threat Report

**Keep Caller Talking As Long As Possible
(Ask Him To Repeat)**

Location	Post Office	State	Date of Bomb Threat
Person Receiving Report	(Last — First — Initial)	Phone Number Receiving Call	Phone Location (Bldg./Floor)
Time Call Received	Was Tape Recorder Used to Record Call? <input type="checkbox"/> No <input type="checkbox"/> Yes, Recording Given To:		
Exact Words of Caller			

Ask Caller These Questions: What Time is Bomb Set to Explode?	What Kind of Triggering Device?
--	---------------------------------

Why Did You Plant The Bomb?

What Kind of Bomb is it? Dynamite Black Powder Other (explain):

What Does It Look Like?

Description of Caller

(Place an X in Proper Boxes)

Male Female Young Middle-Aged Old Couldn't Tell

Voice: Deep High-Pitched Serious Rasping Sounded Intoxicated

Emotion: Joking Normal Laughing Excited Angry

Did Caller Have Accent? No Yes, It Sounded Like (Mispronounced Words):

What Other Voice Characteristics Did You Notice?

Background Sounds: Music Traffic Talking Machinery Other:

Action Taken

(Place X in Proper Box)

Law Enforcement Agencies Notified None Local Police Sheriff State Police FBI AT & T

Last First

Name of Person Responsible For Security Notified:

Were Employees Evacuated? <input type="checkbox"/> Yes <input type="checkbox"/> No	Were Employees Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No	Describe Action Taken (if none, so indicate)
---	--	--

Was Trap Used?
 No Yes — With Following Results:

List Persons Suspected: Last — First — Initial	Address:

ALIEN OBJECT

1. Do not touch the object.
2. Pull fire alarm and evacuate the building and take roll call.
3. Notify the Police (Dial 911).
4. Notify personnel on the emergency list.
5. Stay clear until object has been removed by competent authorities and the **ALL-CLEAR** is given.
6. Resume operations.

POWER OR WATER OUTAGE

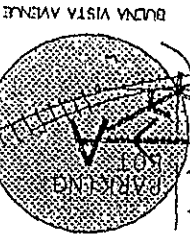
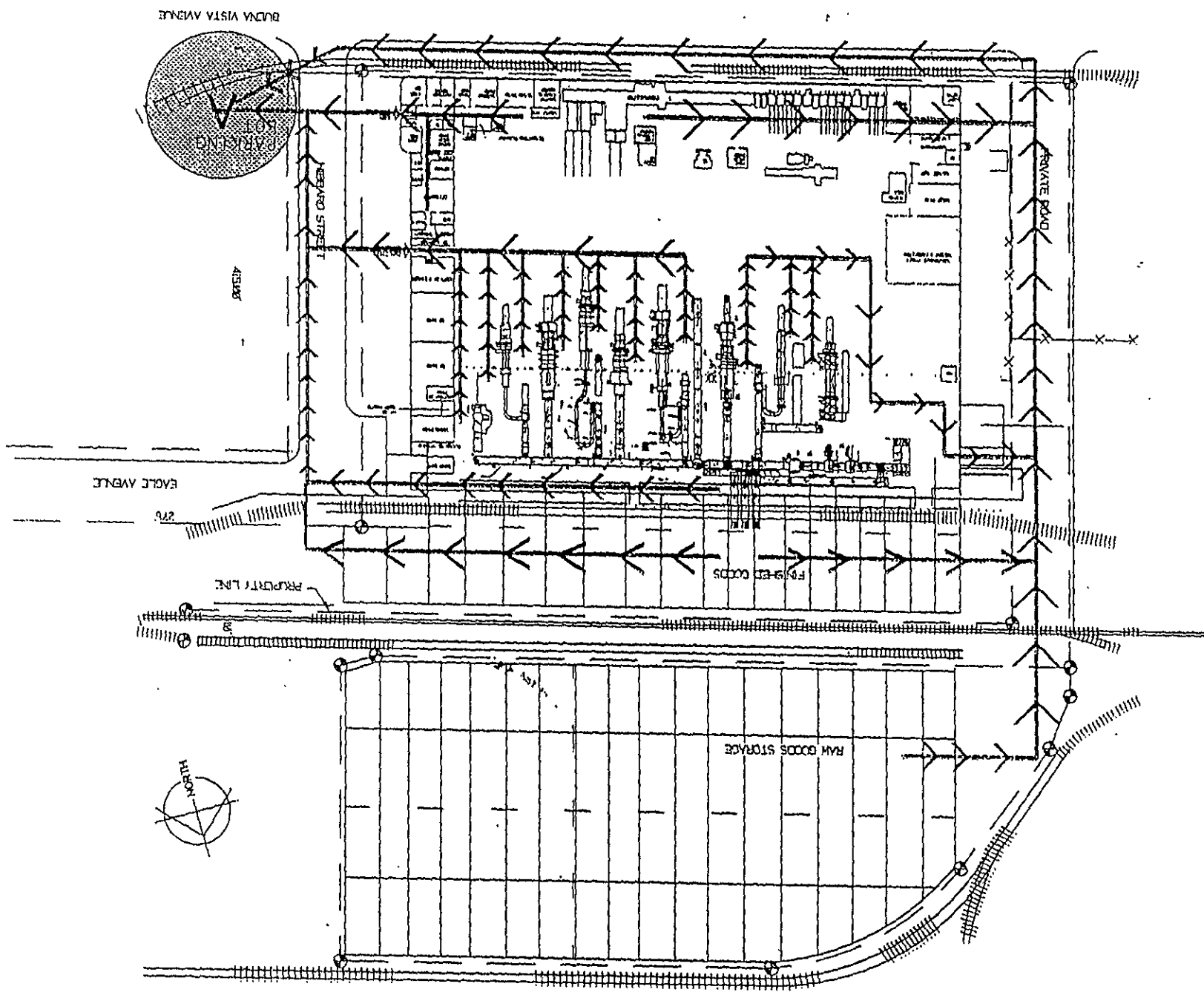
1. Assemble all hourly employees in the **main aisle way of the plant** and take roll call.
2. Call Bureau of Electricity, 522-7411 (Monday - Friday, 8 a.m. - 5 p.m.). After 5 p.m., Saturday, Sunday and Holidays, call 835-3000.
3. Notify personnel on emergency list.
4. Consult with Production Manager before deciding to send crew home.
5. If outage occurs during daylight hours, some clean-up work may be accomplished during outage.

STORM

- 1, Insure safety of employees and inventory.
2. Consult with Production Manager.
3. Release employees and secure building if necessary.

FLOOD

1. Insure safety of employees and inventory.
2. Call Electric Company and have power shut off.
3. Consult with Production Manager.
4. Release employees and secure building if necessary.



EAGLE AVENUE

276

PROPERTY LINE

RAW GOODS STORAGE

FINISHED GOODS

PRIVATE ROAD

BUENA VISTA AVENUE

WAINWRIGHT

STRIKE ACTION
(BY WEYERHAEUSER EMPLOYEES)

1. Close down the plant and secure the building.
2. Notify personnel on the emergency list.
3. Set up fire watch and security patrol with any salaried personnel available.
4. Only the General Manager, Production Manager, or Corporate Labor Relations personnel are authorized to negotiate with the strikers.
5. Stay and watch and patrol until properly relieved.

RIOT (IN PLANT PERSONNEL)

1. Notify the Police and Fire Department (Dial 911).
2. Make reasonable, but safe attempts to quell the riot and preserve company property.
3. Notify persons on the emergency list.
4. Secure all doors possible to confine area of damage.
5. Be safe.

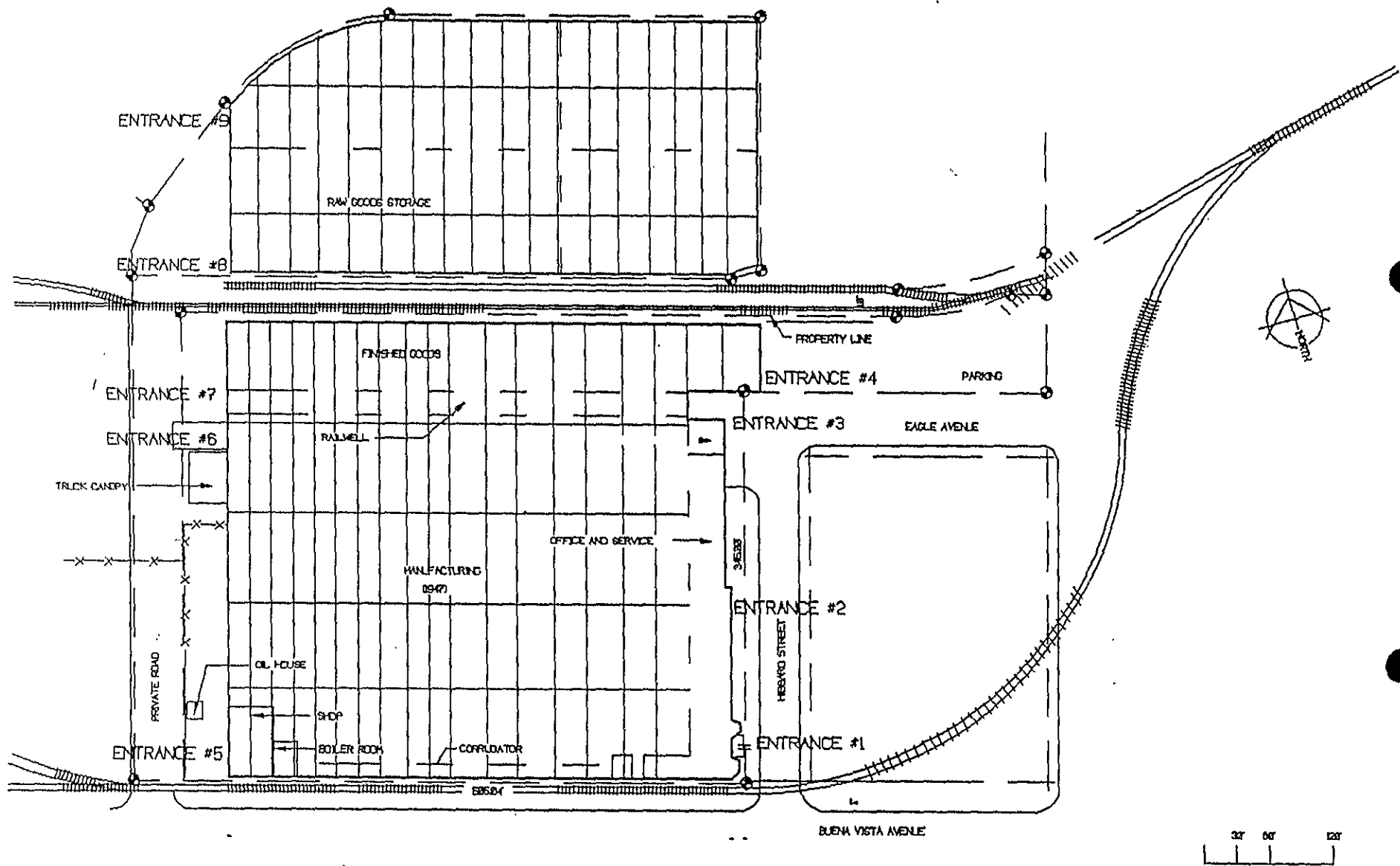
CIVIL DISORDER

COMMUNITY

1. Call the Police and Fire Department (Dial 911).
2. Cease all operations.
3. Recruit volunteers and post Fire and Security Patrols. Do not do this if unsafe or if injury is certain to occur.
4. Notify persons on emergency list.
5. Secure the building and contents as much as possible.
6. Be always mindful of safety of our employees.
7. Resume operations after calm is restored.

EARTHQUAKE

1. Find immediate shelter under stable structure.
2. Stay low to the ground.
3. Evacuate the building using emergency map.
4. Make sure all employees are safe and account for any injuries.
5. Call for medical help if needed.
6. Consult with Production Manager.
7. Release employees and secure building if necessary.



ALAMEDA, CALIFORNIA



PACKAGING PLANT

**SPILL PREVENTION
CONTROL
AND
COUNTER MEASURE PLAN**

DECEMBER 1, 1994

**WEYERHAEUSER COMPANY
ALAMEDA, CALIFORNIA**

SPILL PREVENTION CONTROL AND COUNTER MEASURE

The Weyerhaeuser Company, Alameda, California Containerboard Packaging Facility is located at 1801 Hibbard Street, Alameda, California. The Production Manager of the facility is responsible for Spill Prevention Control measures and employee training related to this subject.

Drainage from the site goes to the City storm drain. See the attached drawing for plant layout and oil storage locations.

Oil stored at the plant site consists of lubricating and hydraulic oils stored in the storage containment area.

All oil storage is located inside the building in a self contained area. The area is illuminated at night for security purposes.

SPILL PREVENTION CONTROL
AND COUNTER MEASURE PLAN

Oil spill reporting procedures consist of the following

- . Observer calls maintenance Foreman and Production Manager
- . Maintenance Foreman begins clean up and coordinates outside help if necessary.
- . Production Manager calls the Operation Manager and Regional Environmental Manager
- . Regional Environmental Manager notifies regulatory agencies as appropriate
- . Operations Manager notifies , City of Alameda and Corporate Offices .

In the event the next level cannot be reached, the caller is responsible for making the next level call.

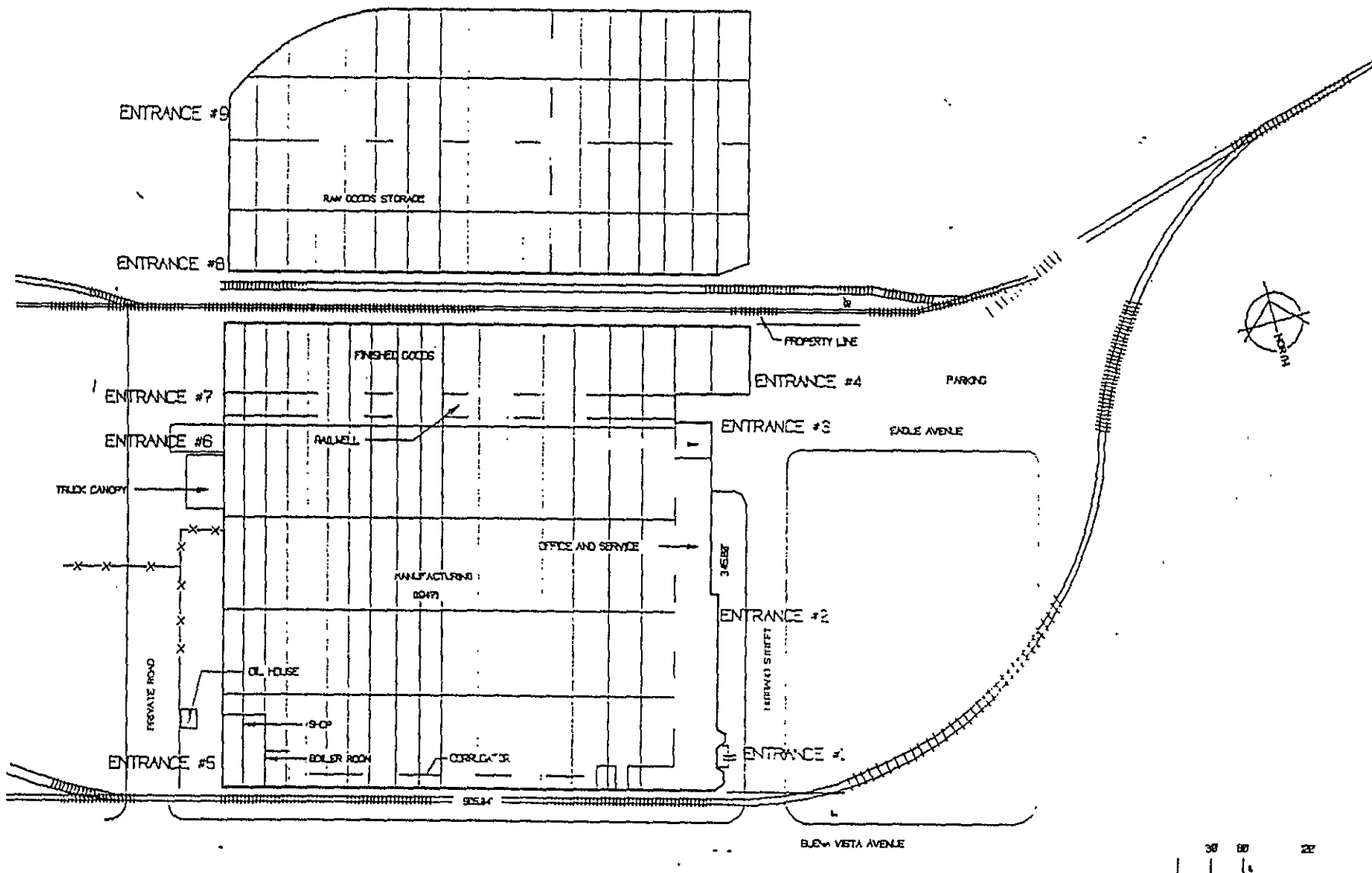
Dana Zehrbach	John Hipner	Bob Stephany
Maintenance Foreman	Production Manager	General Manager

SPILL REPORTING DIRECTORY

TITLE	NAME	OFFICE	HOME	PAGER
Maintenance Foreman	Dana Zehrbach	814-1147	707-5524965	840- 0658
Production Manager	John Hipner	814-1167	371-0806	840- 7184
General Manager	Bob Stephany	814-1104	409-0294	539-2031
Director of Enviornment	Barbara Crowell		206 - 924-7839	

EPA Spill Reporting: 1-800-424-8802

Emergency Response/Superfund 1-415-744-2000 (24 hours)



ALAMEDA, CALIFORNIA



PACKAGING PLANT

CHEMICAL COMMITTEE

Jaime Frontera - Chairperson
Dana Zehrbach
John Hipner
Pete Gregory
Tom Munsell

Responsibilities:

Jaime: Documentation Coordinator of group activities
Dana: DMP Chemicals and Waste Disposal and Disposal of chemicals
John: Coordination of production group as to approved chemicals for production use
Pete: Coordination of Environmental interfacing of chemicals and environment
Tom: Updating MSDS for chemicals

CHEMICAL PROCEDURES

Receiving of Chemicals

Only chemicals on the approved chemical list will be received. If a chemical not on the list shows up at receiving, a member of the chemical committee will be notified and if the chemical was authorized, then it will be added to the approved chemical list. Otherwise the load or chemical will not be received.

The approved chemical list will be posted at shipping and maintenance and personnel in the respective departments will be trained in this procedure.

Disposal of chemicals

All disposal of chemicals will be in accordance with all state, federal and local laws and ordinances and agency needing to be notified. The proper agency will be notified in writing and proper documentation providing information on our disposal of chemicals. This will be done on an as needed basis.

Container Labeling and Storage

Upon receipt, the BMS coordinator will ensure that all containers are properly labeled with their contents and hazardous material warning.

If special storage is required (i.e. paints, solvents etc.) they will be stored in the designated storage area and not in the BMS cage. When secondary containers are used, employees have been trained and understand responsibility for properly labeling secondary containers. Labels and bottles are stored in the maintenance shop.

Material Safety Data Sheets (MSDS)

The MSDS will be maintained for all chemicals entering the Alameda box plant. This includes materials/chemicals used by contractors.

The MSDS master file will be maintained by the BMS coordinator. Copies of the MSDS manual will be maintained in the supervisor's desk, maintenance/BMS office, and the Corrugator. The appropriate supervisor will be responsible for the MSDS notebook in their area.

The MSDS will be available for all employees to review and reference. Copies will be made available upon request to any employee. Each copy will be signed out by the requesting employee.

Chemical Materials Inventory

On a quarterly basis, the BMS coordinator communicates with departments and requests that all chemicals used in their department be evaluated as to usage and need. Chemicals not being used are deleted from the approved chemical list and MSDS files. Request for new chemicals need to go through the Chemical Committee to be reviewed and approved.

Employee Training and Information

All employees will receive training the chemical management on an annual basis.

Chemical I and II

How to read an MSDS, what it contains and where the master file location is and where the department location is.

Proper handling techniques, including precautions, and the appropriate protective equipment and apparel to use to minimize or prevent unnecessary exposure.

Procedures to follow if exposed to any chemicals and special procedures for those which exceed OSHA limits.

The precautions and measures that the company has taken to eliminate hazardous substances from our workplace and its efforts to minimize or eliminate exposure to present substances.

Contractors bringing chemicals into the plant and communication to departments as affected.

Prior to performing any nonroutine task which may involve hazardous substances, the supervisor will conduct a special briefing on the related safety and emergency measures, protective equipment, and potential hazards. The JSA is reviewed.

MEMORANDUM

DATE: MARCH 21, 1996

TO: ALL PLANT PERSONNEL

FROM: JAIME FRONTERA

RE: CHEMICAL PURCHASE APPROVAL PROCESS

CC: JOHN HIPNER
DANA ZEHRBACH

THIS MEMO IS TO INFORM YOU OF THE NEW PROCEDURES RELATED TO THE PURCHASE OF CHEMICALS FOR WEYERHAEUSER ALAMEDA.

STEP #1 CHECK FOR YOUR CHEMICAL ON THE APPROVED CHEMICAL LIST. IF THE CHEMICAL IS LISTED ORDER IT THROUGH PURCHASING

STEP #2 IF THE CHEMICAL IS NOT ON THE APPROVED LIST, GET AN MSDS FROM SUPPLIER.

STEP #3 FILL OUT NEW CHEMICAL REQUEST, SAFETY AND HEALTH, AND DISPOSAL/RECYCLE FORMS. INFORMATION TO FILL OUT THE FORMS IS ON THE MSDS. YOU CAN ALSO ASK MEMBERS OF THE CHEMICAL MANAGEMENT TEAM FOR HELP.

STEP #4 SUBMIT ORIGINAL MSDS, NEW CHEMICAL REQUEST, SAFETY AND HEALTH, AND DISPOSAL/RECYCLE FORMS TO THE CHEMICAL APPROVAL COMMITTEE.

STEP #5 IF YOUR PRODUCT IS APPROVED FOR USE AT THE ALAMEDA FACILITIES ORDER THROUGH PURCHASING. IF NOT FIND A SUBSTITUTE .

APPROVED CHEMICAL LIST

CHEMICAL	HAZARDOUS WARNINGS
ACETONE	
ADHESIVE 3M 13	SKIN AND EYE IRRITANT
ADHESIVE SCOTCH GRIP 1300L 3M	SKIN AND EYE IRRITANT
ADHESIVE 3M SUPER STRAY	SKIN AND EYE IRRITANT
ALKI-FOAM	SKIN AND EYE IRRITANT
ALUMA KLEEN	
BEXANE INDUSTRIAL METALLIC PATCHING COMPOUND	
BORIC ACID	
BOSTICK NEVER SEEZ	
CELATOM DIATOMITE	
CHAIN LUBE PJ1	
CHEMICAL	
CLEAN SURFACE SPRAY BELT DRESSING	
CLEAR SILICONE KAR RTV	
CLING SURF DRY GRAPHYTE	
CLOROX	SKIN AND EYE IRRITANT
CLOVER LAPPING COMPOUND	
COOL SPRAY CERTIFIED	SKIN AND EYE IRRITANT
COOLANT SSR	
CUTTING OIL RIGID	
DRY SLIDE	
DRY LUBE LUBE MASTER	
DUPONT KRYLOX GPL FLORINATED GREASE	SKIN AND EYE IRRITANT
FERRIC CHLORIDE	CORROSIVE
FLOCCULANT	
GEAR OIL 630	
GEAR OIL 6EP	
GREASE MOVIL TEMP 78	
GREASE TRC	
GREASE PREMA LUBE	
GUARDOL 10 WT	
GUARDOL OIL 20 WT/20	AVOID PROLONG EXPOSURE TO SKIN
HYD OIL UNAX AW 46	
HYD TRACTOR FLUID 76	
LACQUER THINNER	SKIN AND EYE IRRITANT
MOLYBDENUM DISULFITE PASTE	
MOTOR OIL UNOCAL	
MULTI PURPOSE ATF OIL	
MURIATIC ACID	CORROSIVE
NALCO 2813	CORROSIVE
NALCO 2895	SKIN AND EYE IRRITANT

NALCO 7203
NOSLIP 111 NONSKID
PETROLEUM JELLY
PH BUFFER SOLUTION (PH 4, PH 7, PH 10)
PLUMBERS PUTTY ACE
PROTEX POLISHING WAX
PVC+CPVC GLUE
PVC+CPVC PRIMER
SEALER 566
SEALER IVI RED
SEALER 1602 3M RED
SICOMET 8400
SODIUM HYDROXIDE
SPAT STOP XERGON
STANCE FLOOR FINISH 3M
STUFFING TUBE SEALANT
SYNTHETIC OIL QUIN-SYN
SYNTHETIC OIL SHY 632
TAP MAGIC CUTTING FLUID
TRANS-A-THERM HEAT CONDUCTIVE PUTTY
YELLOW 77 WIRE PULLING LUBRICANT
ZEBCO ZEPRESERVE
ZEP AREDSOLVE SOLVENT / DEGREASER
ZEPCO PLS

SKIN AND EYE IRRITANT

SKIN AND EYE IRRITANT
SKIN AND EYE IRRITANT

SKIN AND EYE IRRITANT
CORROSIVE

CHEMICAL REQUEST FORM

REQUESTER _____ DEPARTMENT _____

DATE ____/____/____

PRODUCT NAME _____ COMMON NAME _____

MANUFACTURER _____ REFERENCE # _____

SUPPLIER _____ VENDOR # _____

INTENDED USE (how much and where)

IS THIS CHEMICAL REPLACING AN EXISTING CHEMICAL? _____

IF YES, NAME OF CHEMICAL REPLACED _____

REQUESTER / CONTACT PERSON CHEKLIST

- _____ CHECK MASTER APPROVED LIST _____ LISTED _____ NOT LISTED
- _____ OBTAIN AND REVIEW MSDS (ATTACH ORIGINAL)
- _____ CHECK " NOT RECOMMENDED " LIST _____ LISTED _____ NOT LISTED
- _____ SAFETY AND HEALTH FORM (ATTACH ORIGINAL)
- _____ DISPOSAL PLAN (ATTACH ORIGINAL)

RECOMMENDED? _____ YES _____ NO

APPROVAL SIGNATURES:

=====

COMMENTS

HEALTH AND SAFETY FORM

REQUESTER _____ CHEMICAL _____

DATE ____ / ____ / ____

1. SUMMARIZE ANY HEALTH AND PHYSICAL HAZARDS:

2. OUTLINE SAFE USE PROCEDURES:

3. DESCRIBE STORAGE REQUIREMENTS:

4. DESCRIBE PERSONAL PROTECTIVE EQUIPMENT REQUIRED:

5. DESCRIBE ANY NECESSARY ENGINEERING CONTROLS:

6. DESCRIBE ANY PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL:

7. DESCRIBE SECONDARY LABELING REQUIREMENTS:

8. DESCRIBE ANY ADDITIONAL TRAINING NEEDS BEYOND HAZARD COMMUNICATION, AND LIST PERSONS RESPONSIBLE FOR THE TRAINING

DISPOSAL / RECYCLE PLAN

=====

REQUESTER _____ CHEMICAL _____

DATE ____ / ____ / ____

1. WILL MATERIALS BE COMPLETELY USED UP DURING USAGE?

____YES ____NO

IF YES, HOW WILL CONTAINERS BE DISPOSED OF?

IF YOU ANSWERED YES, YOU ARE DONE WITH THIS FORM

IF YOU ANSWERED NO,

2. WILL SUPPLIER TAKE BACK UNUSED MATERIAL? ____YES ____NO

3. CAN MATERIAL AND CONTAINER BE DISCARDED AS NORMAL TRASH?

____YES ____NO

4. DESCRIBE ANY PRECAUTIONS AROUND CONTAINER DISPOSAL:

5. CAN MATERIAL BE RECYCLED? ____YES ____NO

IF YES HOW?

6. IS MATERIAL A HAZARDOUS WASTE? ____YES ____NO

IF YES, DESCRIBE DISPOSAL STEPS:

#1202

Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

10017-00 1215
Rec'd 3/93

Hazardous Materials Management Plan

(Part II)

WEYERHAEUSER PAPER COMPANY

(Facility Name and ID)

1801 Hibbard Street

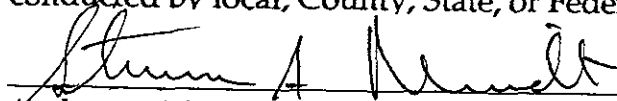
(Facility Address)

Alameda

(Facility City)

Certification

I hereby certify, under penalty of perjury, that the information contained in this Hazardous Materials Management Plan is, to the best of my knowledge, true and correct. I understand that I may be required to show proof of compliance during any facility inspection conducted by local, County, State, or Federal authorities.


Authorized Signature

STEVE MINDT
Print Name

FEB. 26, 1993
Date

PRODUCTION MANAGER
Title

Alameda County Department of Environmental Health

Hazardous Materials Management Plan

Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name REFINED WAX 128
 28) Manufacturer CHEVRON Phone 510-242-5350

29)	Constituent 1	30) CAS # <u>64742454</u>	31) Percent (%) by wt <u>100</u>
	Constituent Name <u>PARAFFIN WAX CLAY TREATED</u>		
	Constituent 2	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 3	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 4	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 5	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		

32) Generic Name/Use (optional) WAX
 33) MSDS Ref #/ ID Code CPS 260401
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.90
 38) DOT Hazard Class NONE 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	4	A	1	2	45000 GL	1005 GL	45000 GL	0	365
Tradename Totals					<u>45000 G</u>	<u>1005 GL</u>	<u>45000 GL</u>	<u>0</u>	<u>365</u>

Alameda County Department of Environmental Health

Hazardous Materials Management Plan

Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name 33-9201 RESYN
 28) Manufacturer NATIONAL STARCH Phone 408-685-5000

29) Constituent 1	30) CAS # _____	31) Percent (%) by wt _____
Constituent Name <u>NONE</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) ADHESIVE
 33) MSDS Ref #/ ID Code 33-9201
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.092
 38) DOT Hazard Class NONE 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	1	0	1	1	700 GAL	12.4 GL	350 GL	0	365
Tradename Totals					700 GL	12.4 GL	350 GL	0	365

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal 26a Waste Code _____
27) Common/Trade Name : DIESEL 2
28) Manufacturer UNOCAL Phone 800-356-3129

29)

Constituent 1	30) CAS # <u>68476346</u>	31) Percent (%) by wt	<u>98</u>
Constituent Name <u>DIESEL 2</u>			
Constituent 2	CAS # <u>92-52-4</u>	Percent (%) by wt	<u>.01</u>
Constituent Name <u>BIPHEMYL</u>			
Constituent 3	CAS # <u>91-20-3</u>	Percent (%) by wt	<u>.01</u>
Constituent Name <u>MAPHTHALENE</u>			
Constituent 4	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 5	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code D0-1700
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.085
38) DOT Hazard Class FLAMMABLE 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 2 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
<u>2</u>	<u>3</u>	<u>B</u>	<u>1</u>	<u>1</u>	<u>3600 GL</u>	<u>9.8 GL</u>	<u>10,000 GL</u>	<u>0</u>	<u>365</u>
Tradename Totals					<u>3600 GL</u>	<u>9.8 GL</u>	<u>10,000 GL</u>	<u>0</u>	<u>365</u>

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a) Waste Code _____
 27) Common/Trade Name LIQUIDIFIED PETROLEUM GAS OR PROPANE
 28) Manufacturer SIBURBAN Phone 510-686-5811

29)

Constituent 1	30) CAS # <u>74-98-6</u>	31) Percent (%) by wt <u>100</u>
Constituent Name <u>HYDROCARBON</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
 33) MSDS Ref #/ ID Code _____
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.51
 38) DOT Hazard Class FLAMMABLE GAS 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 1 43) Reactivity 0
 44) Flammability 4 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
<u>2</u>	<u>2</u>	<u>A</u>	<u>1</u>	<u>3</u>	<u>1000 GAL</u>	<u>126 GAL</u>	<u>1000 GL</u>	<u>0</u>	<u>365</u>
Tradename Totals					<u>1000 GAL</u>	<u>126 GL</u>	<u>1000 GL</u>	<u>0</u>	<u>365</u>

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a) Waste Code _____
 27) Common/Trade Name : LIQUID CAUSTIC SODA 50%
 28) Manufacturer PRESSURE VESSEL Phone _____

29)

Constituent 1	30) CAS # _____	31) Percent (%) by wt <u>50</u>
Constituent Name <u>SODIUM HYDROXIDE</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
 33) MSDS Ref #/ ID Code 0014
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.53
 38) DOT Hazard Class CORROSIVE 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	5	A	1	1	400 GAL	52 GAL	400 GAL	0	365
Tradename Totals					400 GAL	52 GAL	400 GAL	0	365

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name BORIC ACID 26a Waste Code _____
28) Manufacturer KERR MCGEE Phone 209-268-4571

29)

Constituent 1	30) CAS # <u>10043353</u>	31) Percent (%) by wt <u>100</u>
Constituent Name <u>BORIC ACID</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
 33) MSDS Ref #/ ID Code _____
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) _____
 38) DOT Hazard Class NONE 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	6	J	1	1	4000 LB	106 LB	50 LB	0	365
Tradename Totals					4000 LB	106 LB	50 LB	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ State _____ Federal
26a Waste Code _____
27) Common/Trade Name : ACETYLENE
28) Manufacturer LINDE-UNION CARBIDE Phone _____

29)

Constituent 1	30) CAS # <u>74-86-231</u>	31) Percent (%) by wt <u>100</u>
Constituent Name _____		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code L-4559E
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) _____
38) DOT Hazard Class F.G. 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 2
44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	7	L	1	1	682 CF	65 CF	341 CF	0	365
Tradename Totals					682 CF	65 CF	341 CF	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name WORM GEAR LUBE 140
28) Manufacturer UNOCAL Phone 800-356-3129

29) Constituent 1 30) CAS # _____ 31) Percent (%) by wt 99
Constituent Name SOLENT DEWAX RESIDUAL OIL
Constituent 2 CAS # _____ Percent (%) by wt _____
Constituent Name _____
Constituent 3 CAS # _____ Percent (%) by wt _____
Constituent Name _____
Constituent 4 CAS # _____ Percent (%) by wt _____
Constituent Name _____
Constituent 5 CAS # _____ Percent (%) by wt _____
Constituent Name _____

32) Generic Name/Use (optional) GEAR LUB
33) MSDS Ref #/ ID Code D01172
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.90-0.92
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	D	1	1	55GL	.15 GL	55 GL	0	365
Tradename Totals					55 GL	.15 GL	55GL	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ State _____ Federal _____
27) Common/Trade Name : TRITON GAS ENGINE OIL 26a Waste Code _____
28) Manufacturer UNOCAL Phone 800-356-3129

29)

Constituent 1	30) CAS # <u>64742650</u>	31) Percent (%) by wt <u>88.8</u>
Constituent Name <u>DISTILLATE, HEAVY PARAFIN</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) CRANKCASE OIL
33) MSDS Ref #/ ID Code DO1174
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.89
38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 1 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	A	1	1	110 GL	1.05 GL	110 GL	0	365
Tradename Totals					110 GL	1.05 GL	110 GL	0	365

Alameda County Department of Environmental Health

**Hazardous Materials Management Plan
Hazardous Materials Inventory**

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information State _____ Federal _____

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____

27) Common/Trade Name : GUARDOL 10 W

28) Manufacturer UNOCAL Phone 800-356-3129

29) Constituent 1 30) CAS # 64742543 31) Percent (%) by wt 0-89
 Constituent Name HYDROTREATED DISTILLATE, HEAVY PARAFFIN

Constituent 2 CAS # 64742650 Percent (%) by wt 0-89
 Constituent Name SOLVENT DEWAX DISTILLIATE, HEAVY PARAFFIN

Constituent 3 CAS # _____ Percent (%) by wt _____
 Constituent Name _____

Constituent 4 CAS # _____ Percent (%) by wt _____
 Constituent Name _____

Constituent 5 CAS # _____ Percent (%) by wt _____
 Constituent Name _____

32) Generic Name/Use (optional) CRANKCASE OIL

33) MSDS Ref #/ ID Code DO-2237

34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No

36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.88

38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____

41) Health Hazard 1 43) Reactivity 0

44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	D	1	1	55 GL	.15 GL	55 GL	0	365
Tradename Totals					55 GL	.15 GL	55 GL	0	365

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name : UNAX AW 32 26a Waste Code _____
28) Manufacturer UNOCAL Phone 800-356-3129

29)

Constituent 1	30) CAS # <u>64742650</u>	31) Percent (%) by wt <u>0-99</u>
Constituent Name <u>SOLENT DEWAXED DISTILLATE, HEAVY PARAFIN</u>		
Constituent 2	CAS # <u>64742547</u>	Percent (%) by wt <u>0-99</u>
Constituent Name <u>HYDOTREATED DISTILLATE, HEAVY PARAFIN</u>		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) INDUSTRIAL OIL
 33) MSDS Ref #/ ID Code D02249
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.87
 38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 1 43) Reactivity 0
 44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	A	1	1	715 GL	1.95 GL	392 GL	0	365
Tradename Totals					715 GL	1.95 GL	392 GL	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name GUARDOIL MOTOR OIL 20W/20 26a Waste Code _____
28) Manufacturer UNOCAL Phone 213-977-7589

29)	Constituent 1	30) CAS # <u>64742650</u>	31) Percent (%) by wt <u>88</u>
	Constituent Name <u>SOLVENT DISTILLATE, HEAVY PARAFFIN</u>		
	Constituent 2	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 3	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 4	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 5	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		

32) Generic Name/Use (optional) CRANKCASE OIL
 33) MSDS Ref #/ ID Code D0171
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.89
 38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	D	1	1	55 GL	.15 GL	55 GL	0	365
Tradename Totals					55 GL	.15 GL	55GL	0	365

Alameda County Department of Environmental Health

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name TURBINE OIL HD 92 26a Waste Code _____
28) Manufacturer UNOCAL Phone 213-977-7489

29)

Constituent 1	30) CAS # <u>647426501</u>	Percent (%) by wt	<u>98.4</u>
Constituent Name <u>SOLVENT DEWAXED DISTILLATE, HEAVY PARAFIN</u>			
Constituent 2	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 3	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 4	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 5	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			

32) Generic Name/Use (optional) INDUSTRIAL OIL
 33) MSDS Ref #/ ID Code D00206
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.90
 38) DOT Hazard Class _____ 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
2	8	D	1	1	110 GL	1.05 GL	55 GL	0	365
Tradename Totals					110 GL	1.05 GL	55 GL	0	365

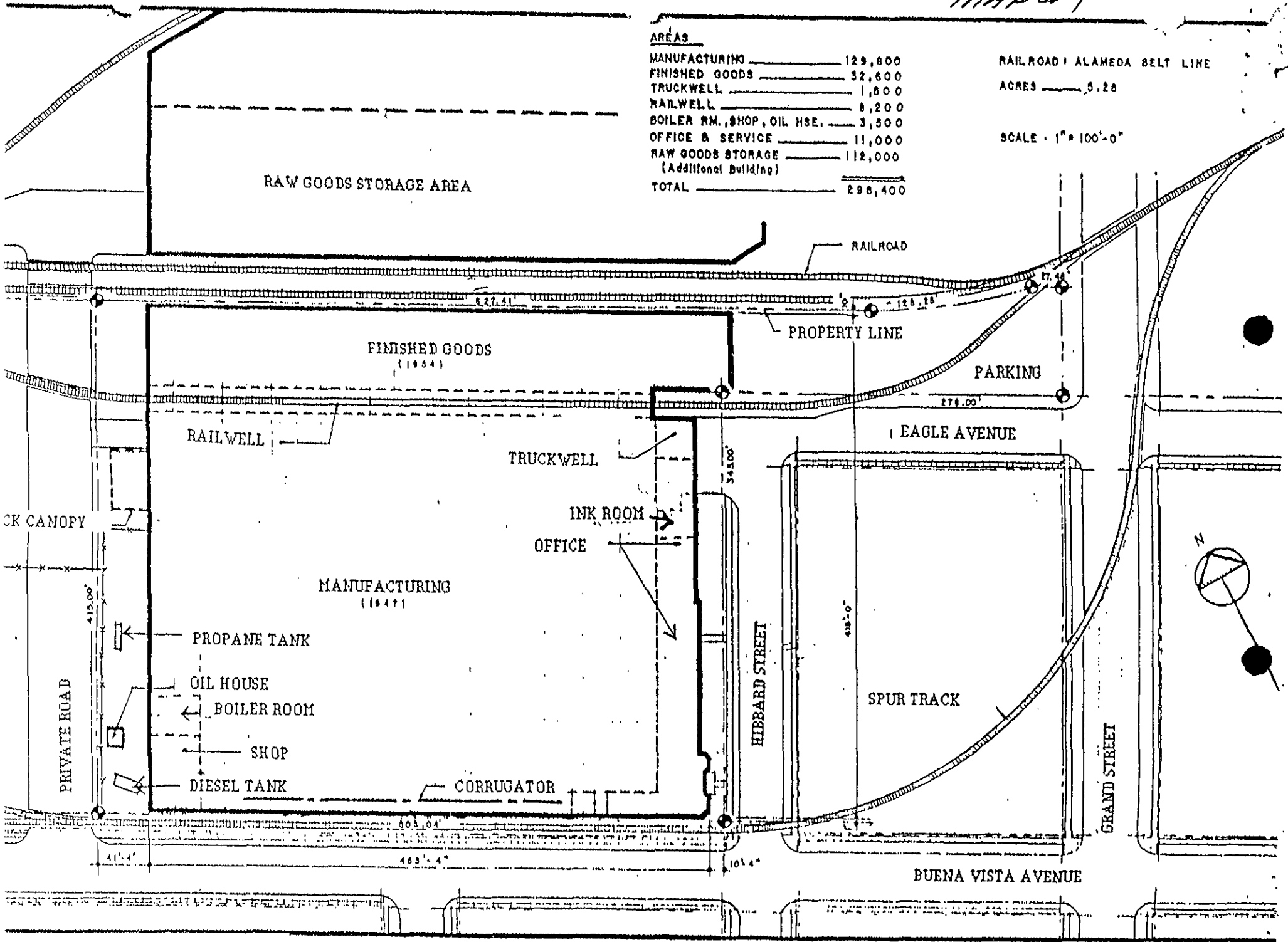
11187-1

AREAS

MANUFACTURING	129,800
FINISHED GOODS	32,600
TRUCKWELL	1,600
RAILWELL	8,200
BOILER RM., SHOP, OIL HSE.	3,500
OFFICE & SERVICE	11,000
RAW GOODS STORAGE (Additional Building)	112,000
TOTAL	298,400

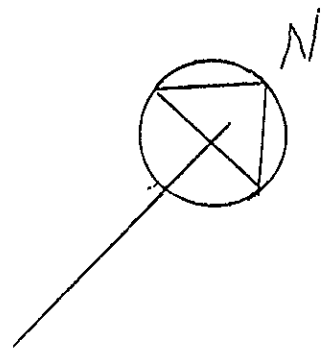
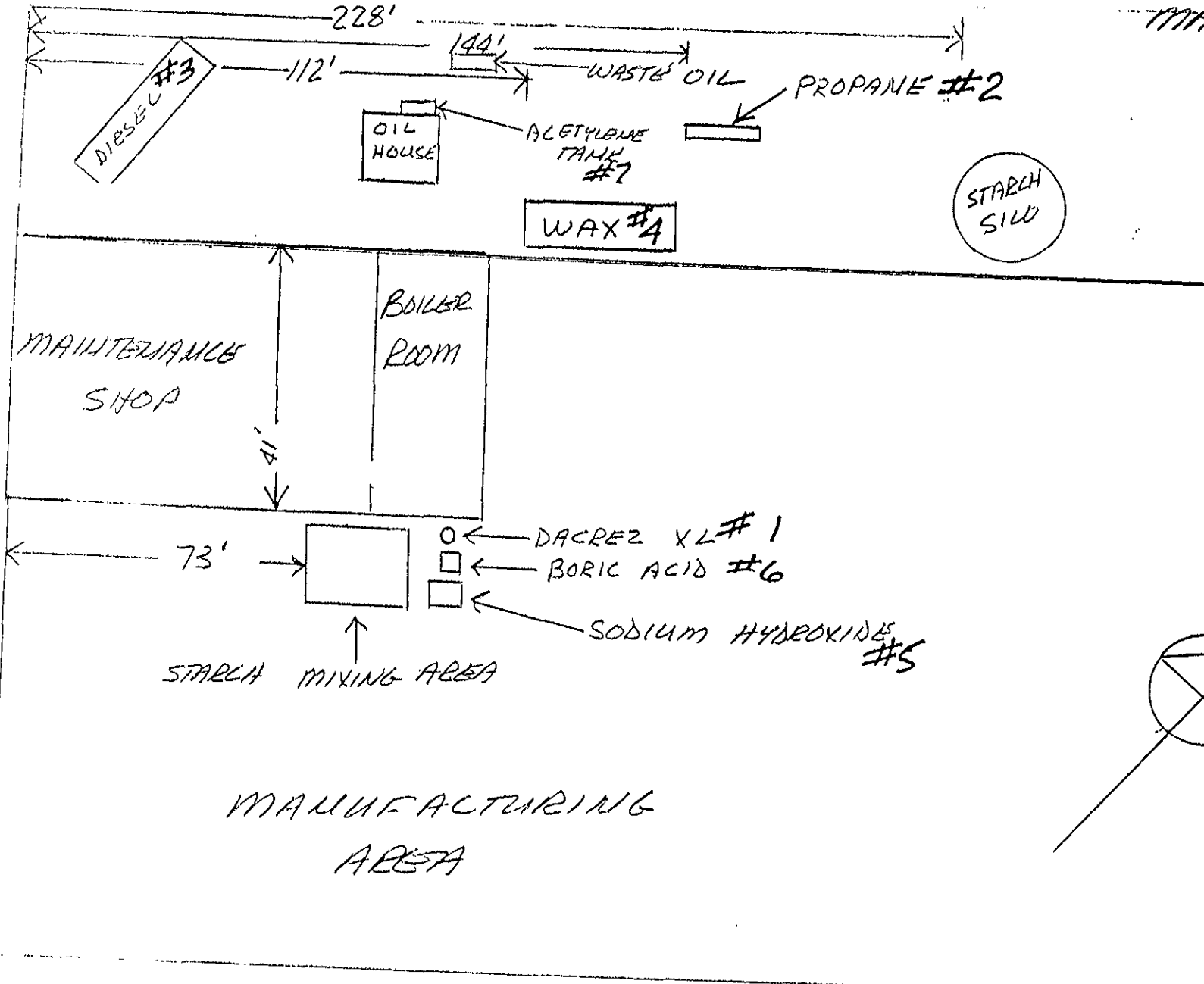
RAILROAD: ALAMEDA BELT LINE
ACRES 5.28

SCALE: 1" = 100'-0"



MAP #2

WYERHAEUSER PAPER CO. 1801 HIBBARD ALAMEDA, CALIF



WYERHAEUSER PAPER CO.
 1801 HIBBARD
 ALAMEDA, CALIF

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Emergency Response Equipment

56) Equipment Location Maintenance Shop

57) Responsible Inspector Ernesto Jacinto

58) Inspection Frequency On-going

59) Personal Protective Equipment

- Gloves
- Chemical resistant suit
- Face Shield
- Helmet
- Boots
- Respiratory protection
- Other _____

60) Spill Control Equipment

- Absorbent
- Spill cart
- Pumps/Vacuums
- Neutralizers
- Vapor Scrubber
- Other _____

61) Communication Devices

- Portable Devices
- Telephones
- Pagers
- Other _____

Please make copies of this page as needed.

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN

Emergency Response Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Emergency Response Training

All Personnel

All employees are trained in the following procedures:

- 62) Internal/alarm notification.
- 63) External emergency response organization notification.
- 64) Locations and content of emergency response plan.
- 65) Evacuation procedures.
- 66) Spill procedures.

Chemical Handlers

Chemical handlers are additionally trained in the following:

- 67) Safe method for handling and storage of hazardous materials.
- 68) Proper use of personal protection equipment.
- 69) Locations and proper use of fire and spill control equipment.
- 70) Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e. skin absorption, inhalation, ingestion).

Emergency Response Team

Emergency response team members are additionally trained in the following procedures and will act as liaison to the Fire Department:

- 71) Personnel rescue procedures.
- 72) Shutdown of operations.
- 73) Use, maintenance, and replacement of emergency response equipment.
- 74) Emergency response drills.
- 75) Refresher training is provided at least annually.

Emergency Response Documents

The following training records are maintained for each employee:

- 76) Verification of date that training was completed.
- 77) Description of introductory and continuing training.
- 78) Employee's training records are retained at least three years.
- 79) Description and documentation of facility emergency response drills.

Other

- 79A) No Procedure to be used in event of spill from an underground tank

Your emergency response training plan and training records must be on site and available for review by Alameda County Department of Health

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Evacuation Information

80) Evacuation Notification

- Verbal (i.e. shouting)
- Horns
- Alarms

81) Evacuation Procedures

The evacuation plan and routes must be submitted with the HMMP and shall include:

- Defined evacuation routes and procedures.
- Preplanned assembly areas.
- Evacuation route maps prominently displayed throughout facility.
- Re-entry procedures.

82) Other Evacuation Planning Information

Emergency Contacts

- 82a Priority contact phone # (510) 523-6121
- Fire/Police/Ambulance 911
- 83) CA State Office of Emergency Services 1-800-852-7550
- 84) Other Dept Name _____
- 85) Nearest Medical Facility Alameda Hospital
- Address 2070 Clinton Avenue
- City Alameda

ALAMEDA EMERGENCY RESPONSE TEAM

DATE: February 26, 1993

	POSITION	1st SHIFT	2nd SHIFT	3rd SHIFT
A	FIRE CHIEF	Die Cut Supervisor	Die Cut Supervisor	Die Cut Supervisor
	ALTERNATE	Flexo Supervisor	Flexo Supervisor	Flexo Supervisor
B	PERSON TO CALL FIRE DEPT.	Corrugator Supervisor	Corrugator Supervisor	Corrugator Supervisor
	ALTERNATE	507 Operator	507 Operator	507 Operator
C	PERSON TO PULL TIME CARDS	Bobst Operator	Bobst Operator	Bobst Operator
	ALTERNATE	507 Asst. Oper.	507 Asst. Oper.	507 Asst. Oper.
D	PERSON TO DIRECT FIRE DEPT.	Pul-Pak Driver	Pul-Pak Driver	Pul-Pak Driver
	ALTERNATE	246 Operator	246 Operator	246 Operator
E	SPRINKLER VALVE CONTROLLER	Larry Perez	Ray Jackson	David Avery
	ALTERNATE	Jim Ealy	Domingo Alonzo	Dana Zehrbach
F	ELECTRICIAN	Ernesto Jacinto	Domingo Alonzo	Dana Zehrbach
	ALTERNATE	Jose Feria	Ray Jackson	David Avery
G	SALVAGE SQUAD	Flexo Supervisor	Flexo Supervisor	Flexo Supervisor
	ALTERNATE	Die Cut Supervisor	Die Cut Supervisor	Die Cut Supervisor

DUTIES OF THE EMERGENCY RESPONSE TEAM

A. FIRE CHIEF:

FIRE CHIEF WILL MAKE SURE EVERYONE IS OUT OF THE BUILDING, LET THE FIRE CAPTAIN KNOW IF ANYONE IS MISSING, GIVE THE OK TO RETURN TO WORK AND SUPERVISE THE SALVAGE SQUAD. ALSO NOTIFY THE PRODUCTION MANAGER OF THE SITUATION.

B. PERSON TO NOTIFY THE FIRE DEPARTMENT:

HE/SHE MUST BE FAMILIAR WITH THE PHONE # OF THE LOCAL FIRE DEPARTMENT AND CALL IN THE EVENT OF A FIRE.

C. PERSON TO PULL TIME CARDS AND ACCOUNT FOR EMPLOYEES:

HE/SHE WILL PULL THE TIME CARDS OF ALL EMPLOYEE'S WHO ARE PUNCHED IN. IF THE TIME CARDS ARE IN THE OFFICE, THE ACCOUNTING DEPARTMENT WILL TAKE THE TIME CARDS. HE/SHE WILL TAKE ROLL IN AREA "A" ON THE EVACUATION MAP AND REPORT ANY MISSING EMPLOYEES TO THE FIRE CHIEF.

D. PERSON TO DIRECT THE FIRE DEPARTMENT TO THE FIRE:

HE/SHE WILL STAND AT THE CORNER OF HIBBARD AND BUENA VISTA AND DIRECT THE THE FIRE DEPARTMENT.

E. SPRINKLER VALVE CONTROLLER:

HE/SHE MUST KNOW LOCATIONS OF ALL VALVES AND HOW TO OPERATE THEM. HIS/HER MAIN FUNCTION IS TO MAKE SURE THE VALVE CONTROLLING THE FIRE AREA IS OPEN UNTIL ORDERED SHUT BY THE FIRE CHIEF.

F. ELECTRICIAN:

HE/SHE MUST KNOW THE LOCATIONS OF ALL SWITCHES CONTROLLING THE POWER. HE/SHE MUST KNOW HOW TO SHUT DOWN THE NECESSARY EQUIPMENT. HE/SHE SHALL STAND READY TO MAKE TEMPORARY CONNECTIONS IF NEEDED.

G. SALVAGE SQUAD:

IN CHARGE OF CLEAN UP AND SALVAGING WHAT WAS NOT DAMAGED.

TO ALL EMPLOYEES

MANAGEMENT HAS DRAFTED A SET OF PLANT EVALUATION PROCEDURES WHICH SHOULD MINIMIZE ANY CONFUSION IN THE EVENT OF AN EMERGENCY. PLEASE READ THE FOLLOWING CAREFULLY.

1. WHEN ALARM GOES OFF, STOP EVERYTHING. DON'T PICK UP TOOLS, SWEATERS, OR ANY OTHER PERSONAL ITEMS.
2. DO NOT RUN. WALK AT ALL TIMES IN A HURRIED MANNER.
3. AFTER EVACUATING THE PLANT, REPORT TO AREA "A" ON THE EVACUATION MAP, THE DIRT PARKING LOT ACROSS FROM THE MAIN OFFICE. ROLL CALL WILL BE TAKEN THERE.
4. DO NOT GET IN YOUR CAR. DO NOT LEAVE THE AREA. YOU WILL BE INSTRUCTED WHEN YOU CAN LEAVE AND RETURN TO WORK. ONCE AGAIN, DO NOT GET INTO YOUR CAR AND LEAVE.

Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

STID 1202

92 MAR -2 PM 2:28

Hazardous Materials Management Plan

(Part II)

WEYERHAEUSER PAPER COMPANY

(Facility Name and ID)

1801 Hibbard Street

(Facility Address)

Alameda

(Facility City)

Certification

I hereby certify, under penalty of perjury, that the information contained in this Hazardous Materials Management Plan is, to the best of my knowledge, true and correct. I understand that I may be required to show proof of compliance during any facility inspection conducted by local, County, State, or Federal authorities.



Authorized Signature

Steve Mindt

Print Name

2/28/92

Date

Production Manager

Title

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ State _____ Federal _____
27) Common/Trade Name Liquified petroleum gas or propane 26a Waste Code _____
28) Manufacturer Suburban Propane Phone (510) 686-5811

29)

Constituent 1	30) CAS # <u>74-98-6</u>	31) Percent (%) by wt <u>100</u>
Constituent Name <u>Hydrocarbon</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code None
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.51
38) DOT Hazard Class Flammable gas 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 1 43) Reactivity 0
44) Flammability 4 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
#2	#2	A	1	3	1,000 gal	131 gal	1,000 gal	0	365
Tradename Totals					1,000 gal	131 gal	1,000 gal	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name Unocal Diesel #2 26a Waste Code _____
28) Manufacturer Unocal Phone _____
68476-34-6

29)	Constituent 1	30) CAS # <u>7</u>	31) Percent (%) by wt <u>98</u>
	Constituent Name <u>Diesel #2</u>		
	Constituent 2	CAS # <u>92-52-4</u>	Percent (%) by wt <u>.01</u>
	Constituent Name <u>Biphenyl</u>		
	Constituent 3	CAS # <u>91-20-3</u>	Percent (%) by wt <u>.01</u>
	Constituent Name <u>Maphthalene</u>		
	Constituent 4	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		
	Constituent 5	CAS # _____	Percent (%) by wt _____
	Constituent Name _____		

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code NA1993
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.85
38) DOT Hazard Class CL 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 2 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
#2	#3	B	1	1	3,600 gal	3,600gal	10,000gal	0	365
Tradename Totals					3,600 gal	3,600gal	10,000gal	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
27) Common/Trade Name Aristo Wax 125
28) Manufacturer Unocal Phone (510) 945-7676

64742-43-4

29) Constituent 1	30) CAS # <u>7</u>	31) Percent (%) by wt	<u>100</u>
Constituent Name <u>Aristowax 125</u>			
Constituent 2	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 3	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 4	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			
Constituent 5	CAS # _____	Percent (%) by wt	_____
Constituent Name _____			

32) Generic Name/Use (optional) Wax
33) MSDS Ref #/ ID Code None
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 0.92
38) DOT Hazard Class None 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 0
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
#2	#4	A	1	2	45,000gal	6,274gal	45,000gal	0	365
Tradename Totals					45,000	6,274	45,000	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name Liquid Cuastic Soda 50%
 28) Manufacturer PPG Phone _____

29) Constituent 1	30) CAS # _____	31) Percent (%) by wt <u>50</u>
Constituent Name <u>Sodium Hydroxide</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) _____
 33) MSDS Ref #/ ID Code 0014
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) 1.530
 38) DOT Hazard Class Corrosive 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
#2	#5	A	1	1	8400#	363#	8400#	0	365
Tradename Totals					8400#	363#	8400#	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ 26a Waste Code _____
 27) Common/Trade Name Boric Acid
 28) Manufacturer Kerr McGee Phone (209) 268-4571
10043-35-3

29) Constituent 1	30) CAS # <u>7</u>	31) Percent (%) by wt <u>100</u>
Constituent Name <u>Boric Acid</u>		
Constituent 2	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 3	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 4	CAS # _____	Percent (%) by wt _____
Constituent Name _____		
Constituent 5	CAS # _____	Percent (%) by wt _____
Constituent Name _____		

32) Generic Name/Use (optional) Boric Acid
 33) MSDS Ref #/ ID Code _____
 34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
 36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) _____
 38) DOT Hazard Class Not applicable 39) UNNA# _____ 40) Pressure? _____
 41) Health Hazard 0 43) Reactivity 0
 44) Flammability 0 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
#2	#6	J	1	1	4000#	9.1	50#	0	365
Tradename Totals					4000#	9.1	50#	0	

Hazardous Materials Management Plan
Hazardous Materials Inventory

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Trade Name Information

25) Composition Pure Mixture Waste 26) Waste Code _____ Federal
27) Common/Trade Name Acetylene 26a Waste Code _____
28) Manufacturer Linde-Union Carbide Phone _____

29) Constituent 1	30) CAS #	<u>74-86-2</u>	31) Percent (%) by wt	<u>100</u>
Constituent Name <u>Acetylene</u>				
Constituent 2	CAS #	_____	Percent (%) by wt	_____
Constituent Name _____				
Constituent 3	CAS #	_____	Percent (%) by wt	_____
Constituent Name _____				
Constituent 4	CAS #	_____	Percent (%) by wt	_____
Constituent Name _____				
Constituent 5	CAS #	_____	Percent (%) by wt	_____
Constituent Name _____				

32) Generic Name/Use (optional) _____
33) MSDS Ref #/ ID Code L-4559-E
34) Trade Secret? Yes No 35) Extremely (Acutely) Hazardous? Yes No
36) Physical State Solid Gas Liquid 37) Specific Gravity (if liquid) _____
38) DOT Hazard Class F.G. 39) UNNA# _____ 40) Pressure? _____
41) Health Hazard 0 43) Reactivity 2
44) Flammability 1 45) Special Hazards 0 microcuries (if appl) _____

Storage Detail

Map 46)	Location 47)	Cont. Type 48)	Press 49)	Temp 50)	Max Daily Amt 51)	Avg Daily Amt 52)	Max in One Vessel 53)	Waste Gener- ated (yr) 54)	# Days/yr on site 55)
#2	#7	L	1	1	682 CF	3.0 CF	341 CF	0	365
Tradename Totals					682 CF	3.0 CF	341 CF	0	

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Facility Map - Site Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Refer to Map #1

(N)

Scale feet/inch

Map # Map Name

Today's Date

- Loc
- A-
- B-
- C-
- D-
- E-
- F-

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Facility Name _____ Facility ID _____

Evacuation Information

80) Evacuation Notification

- _____ Verbal (i.e. shouting)
- _____ Horns
- _____ Alarms

81) Evacuation Procedures

The evacuation plan and routes must be submitted with the HMMP and shall include:

- _____ Defined evacuation routes and procedures.
- _____ Preplanned assembly areas.
- _____ Evacuation route maps prominently displayed throughout facility.
- _____ Re-entry procedures.

82) Other Evacuation Planning Information

Emergency Contacts

82a Priority contact phone # _____

Fire/Police/Ambulance 911

83) CA State Office of Emergency Services 1-800-852-7550

84) Other Dept Name _____

85) Nearest Medical Facility _____

Address _____

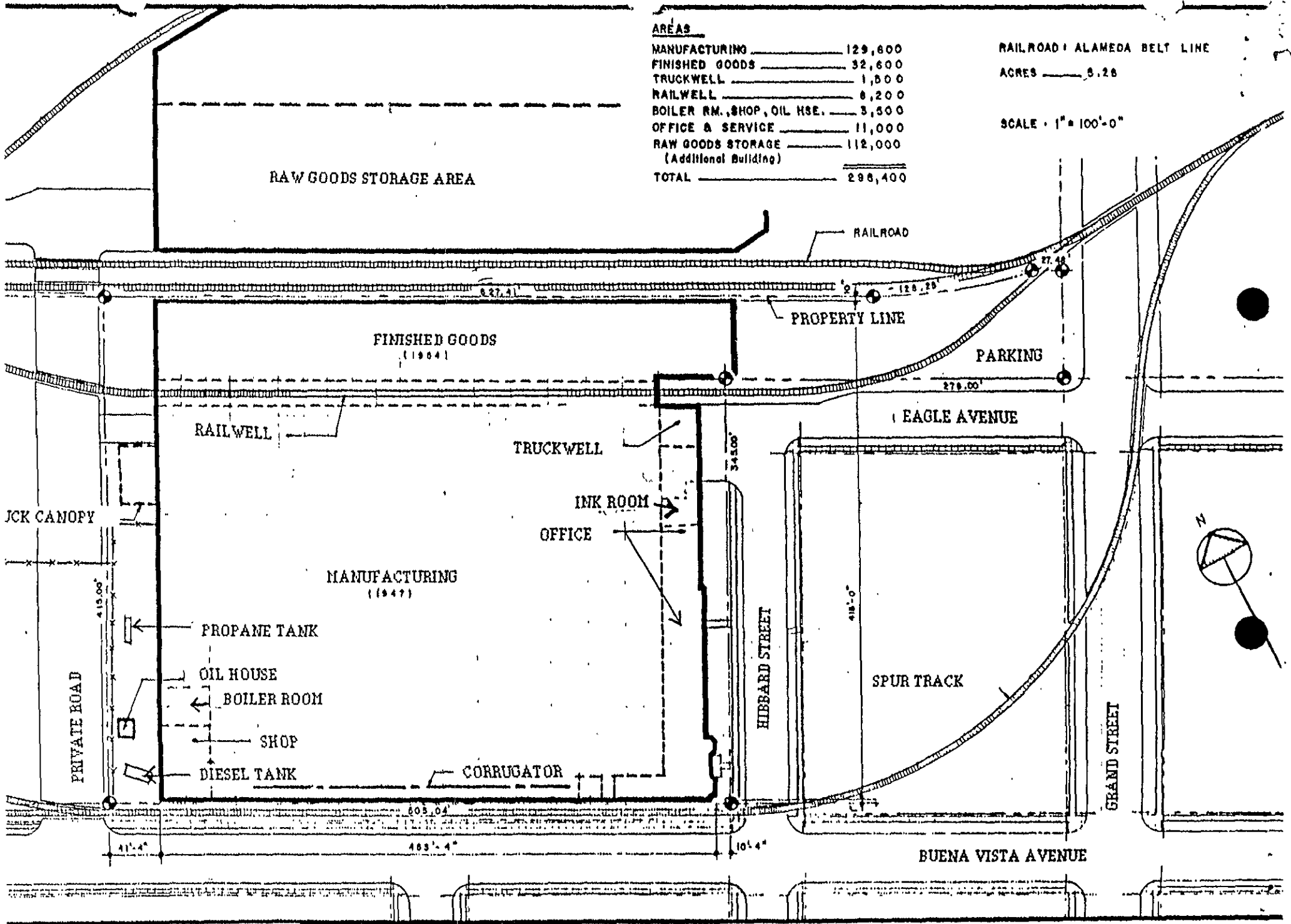
City _____

MAP #1

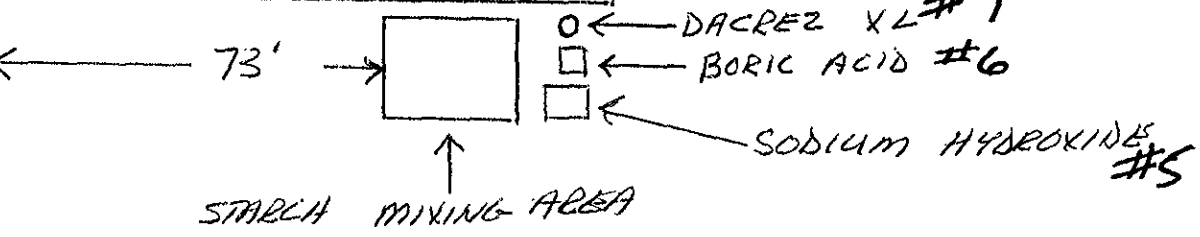
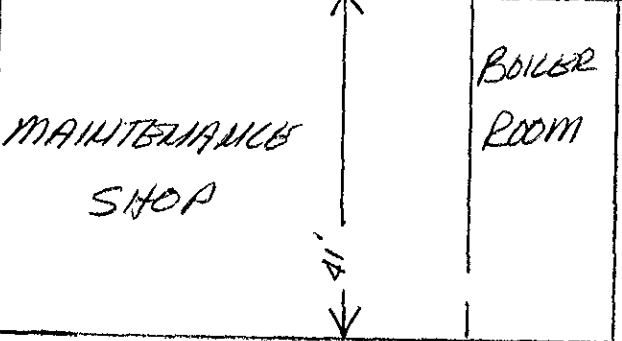
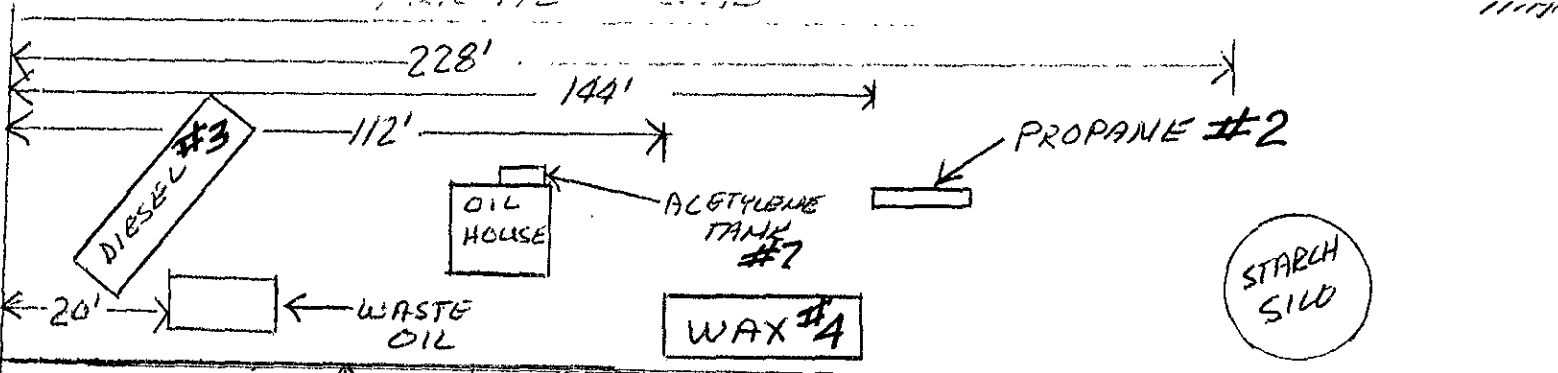
AREAS

MANUFACTURING	129,600
FINISHED GOODS	32,600
TRUCKWELL	1,500
RAILWELL	8,200
BOILER RM., SHOP, OIL HSE.	3,500
OFFICE & SERVICE	11,000
RAW GOODS STORAGE (Additional Building)	112,000
TOTAL	298,400

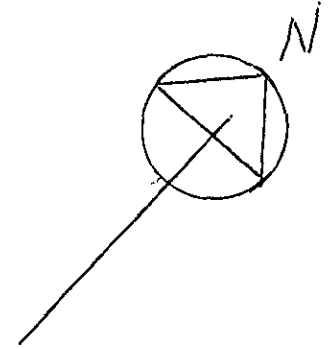
RAILROAD: ALAMEDA BELT LINE
 ACRES — 8.28
 SCALE: 1" = 100'-0"



BUENA VISTA PLANT



MANUFACTURING AREA



WEYERHAEUSER PAPER CO.
 1801 HIBBARD
 ALAMEDA, CALIF

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Emergency Response Equipment

56) Equipment Location Maintenance Shop

57) Responsible Inspector Ernesto Jacinto

58) Inspection Frequency On-going

59) Personal Protective Equipment

- Gloves
- Chemical resistant suit
- Face Shield
- Helmet
- Boots
- Respiratory protection
- Other _____

60) Spill Control Equipment

- Absorbent
- Spill cart
- Pumps/Vacuums
- Neutralizers
- Vapor Scrubber
- Other _____

61) Communication Devices

- Portable Devices
- Telephones
- Pagers
- Other _____

Please make copies of this page as needed.

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Emergency Response Training

All Personnel

All employees are trained in the following procedures:

- 62) Internal/alarm notification.
- 63) External emergency response organization notification.
- 64) Locations and content of emergency response plan.
- 65) Evacuation procedures.
- 66) Spill procedures.

Chemical Handlers

Chemical handlers are additionally trained in the following:

- 67) Safe method for handling and storage of hazardous materials.
- 68) Proper use of personal protection equipment.
- 69) Locations and proper use of fire and spill control equipment.
- 70) Specific hazards of each chemical to which they may be exposed, including the pathways of exposure (i.e. skin absorption, inhalation, ingestion).

Emergency Response Team

Emergency response team members are additionally trained in the following procedures and will act as liaison to the Fire Department:

- 71) Personnel rescue procedures.
- 72) Shutdown of operations.
- 73) Use, maintenance, and replacement of emergency response equipment.
- 74) Emergency response drills.
- 75) Refresher training is provided at least annually.

Emergency Response Documents

The following training records are maintained for each employee:

- 76) Verification of date that training was completed.
- 77) Description of introductory and continuing training.
- 78) Employee's training records are retained at least three years.
- 79) Description and documentation of facility emergency response drills.

Other

- 79A) No Procedure to be used in event of spill from an underground tank

Your emergency response training plan and training records must be on site and available for review by Alameda County Department of Health

Alameda County Department of Environmental Health

HAZARDOUS MATERIALS MANAGEMENT PLAN
Emergency Response Plan

Facility Name Weyerhaeuser Paper Company Facility ID 1202

Evacuation Information

80) Evacuation Notification

Verbal (i.e. shouting)

Horns

Alarms

81) Evacuation Procedures

The evacuation plan and routes must be submitted with the HMMP and shall include:

Defined evacuation routes and procedures.

Preplanned assembly areas.

Evacuation route maps prominently displayed throughout facility.

Re-entry procedures.

82) Other Evacuation Planning Information

Emergency Contacts

82a Priority contact phone # (510) 523-6121

Fire/Police/Ambulance 911

83) CA State Office of Emergency Services 1-800-852-7550

84) Other Dept Name _____

85) Nearest Medical Facility Alameda Hospital

Address 2070 Clinton Avenue

City Alameda

ALAMEDA EMERGENCY RESPONSE TEAM

DATE JAN 7TH 1992

POSITION	1ST SHIFT	2ND SHIFT	3RD SHIFT
FIRE CHIEF	TED GATANIS	CARLOS SANTOS	JUAN CUEVAS
ALTERNATE	MIKE BOURASSA	ERNESTO LEYVA	TERRY JACKSON
PERSON TO CALL FIRE DEPT.	LESLIE BAKER	BEN CASILLAS	ANITA WRIGHT
ALTERNATE	BOB BENNETT	BEN DIWA	GREG TAMARU
PERSON TO PULL TIME CARDS	FRED SARINANA	BRUCE GREEN	JESUS TOPETE
ALTERNATE	BOB BENNETT	BEN CASILLAS	HENRY BOTELHO
PERSON TO DIRECT FIRE DEPT.	RAY FABELLA	GUS FABELLA	BOB SAMORANO
ALTERNATE	PETE LEON	HOIT OLDHAM	J.A. ARCHIBALD
SPRINKLER VALVE CONTROLLER	GEORGE BOGGS	RAY JACKSON	S. MORRISON
ALTERNATE	JIM EALY	DOMINGO ALONZO	PETER BOUTE
SALVAGE SQUAD	TED GATANIS	CARLOS SANTOS	JUAN CUEVAS
ALTERNATE	MIKE BOURASSA	BEN CASILLAS	TERRY JACKSON

DUTIES OF THE EMERGENCY RESPONSE TEAM

A. FIRE CHIEF:

FIRE CHIEF WILL MAKE SURE EVERYONE IS OUT OF THE BUILDING, LET THE FIRE CAPTAIN KNOW IF ANYONE IS MISSING, GIVE THE OK TO RETURN TO WORK AND SUPERVISE THE SALVAGE SQUAD. ALSO NOTIFY THE PRODUCTION MANAGER OF THE SITUATION.

B. PERSON TO NOTIFY THE FIRE DEPARTMENT:

HE/SHE MUST BE FAMILIAR WITH THE PHONE # OF THE LOCAL FIRE DEPARTMENT AND CALL IN THE EVENT OF A FIRE.

C. PERSON TO PULL TIME CARDS AND ACCOUNT FOR EMPLOYEES:

HE/SHE WILL PULL THE TIME CARDS OF ALL EMPLOYEE'S WHO ARE PUNCHED IN. IF THE TIME CARDS ARE IN THE OFFICE, THE ACCOUNTING DEPARTMENT WILL TAKE THE TIME CARDS. HE/SHE WILL TAKE ROLL IN AREA "A" ON THE EVACUATION MAP AND REPORT ANY MISSING EMPLOYEES TO THE FIRE CHIEF.

D. PERSON TO DIRECT THE FIRE DEPARTMENT TO THE FIRE:

HE/SHE WILL STAND AT THE CORNER OF HIBBARD AND BUENA VISTA AND DIRECT THE THE FIRE DEPARTMENT.

E. SPRINKLER VALVE CONTROLLER:

HE/SHE MUST KNOW LOCATIONS OF ALL VALVES AND HOW TO OPERATE THEM. HIS/HER MAIN FUNCTION IS TO MAKE SURE THE VALVE CONTROLLING THE FIRE AREA IS OPEN UNTIL ORDERED SHUT BY THE FIRE CHIEF.

F. ELECTRICIAN:

HE/SHE MUST KNOW THE LOCATIONS OF ALL SWITCHES CONTROLLING THE POWER. HE/SHE MUST KNOW HOW TO SHUT DOWN THE NECESSARY EQUIPMENT. HE/SHE SHALL STAND READY TO MAKE TEMPORARY CONNECTIONS IF NEEDED.

G. SALVAGE SQUAD:

IN CHARGE OF CLEAN UP AND SALVAGING WHAT WAS NOT DAMAGED.

TO ALL EMPLOYEES

MANAGEMENT HAS DRAFTED A SET OF PLANT EVALUATION PROCEDURES WHICH SHOULD MINIMIZE ANY CONFUSION IN THE EVENT OF AN EMERGENCY. PLEASE READ THE FOLLOWING CAREFULLY.

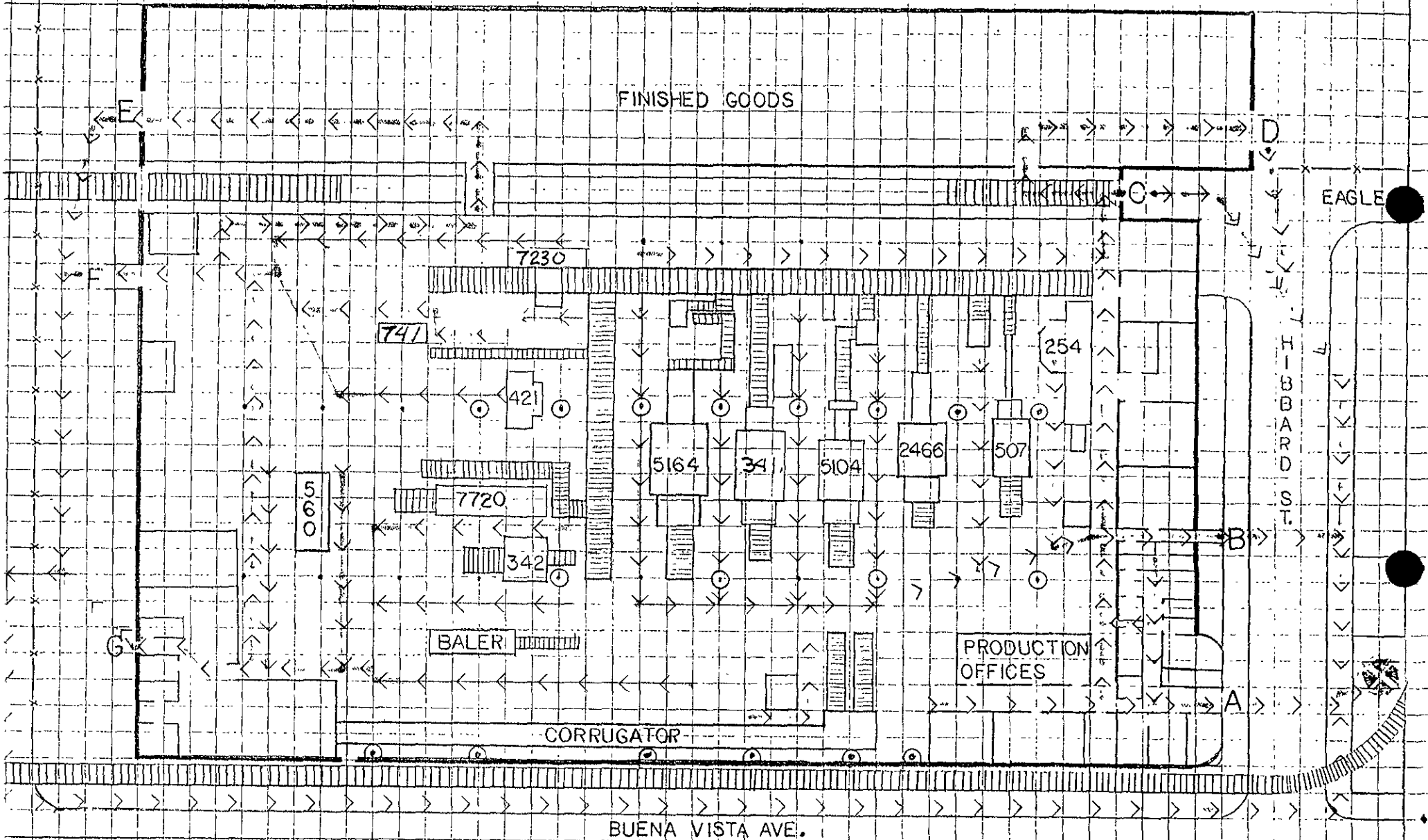
1. WHEN ALARM GOES OFF, STOP EVERYTHING. DON'T PICK UP TOOLS, SWEATERS, OR ANY OTHER PERSONAL ITEMS.
2. DO NOT RUN. WALK AT ALL TIMES IN A HURRIED MANNER.
3. AFTER EVACUATING THE PLANT, REPORT TO AREA "A" ON THE EVACUATION MAP, THE DIRT PARKING LOT ACROSS FROM THE MAIN OFFICE. ROLL CALL WILL BE TAKEN THERE.
4. DO NOT GET IN YOUR CAR. DO NOT LEAVE THE AREA. YOU WILL BE INSTRUCTED WHEN YOU CAN LEAVE AND RETURN TO WORK. ONCE AGAIN, DO NOT GET INTO YOUR CAR AND LEAVE.

IN CASE OF A FIRE OR OTHER EMERGENCY.

GO TO THE NEAREST EXIT (A - G) INDICATED ON THE CHART BELOW.

FIRST CHOICE → → → → → → → → → →
2ND CHOICE → → → → → → → → → →

EVERYONE SHOULD GO DIRECTLY TO THE OFFICE PARKING LOT



Name
Address
City Weymouth zip

Trade Name
MAMMOTH

DOT Class

Storage Location Code
Physical State

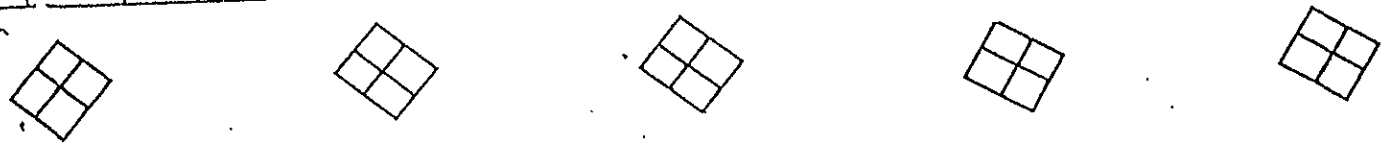
Composition

Amount
gal lbs cu ft

Container Type

Trade Name	DOT Class	Storage Location Code	Physical State	Composition	Amount	Container Type	Chemical Name, CAS #	%
THREE EGGHTONS Kerosene Pca D H2803		(A)	5	P	2000	L	10043-36-3	100
AMUSTONIC SPARK		(A)	GLUE MIX STATION	L	205	AGT	DO1310-73-2	50
AMUSTONIC 125			OUTSIDE	L	8000	AGT	64742-43-4	100
DISSEL FUEL		(O)	OUTSIDE	L	2000	AGT	68476-34-6	98
		(O)	OUTSIDE	M	1200		92-52-4	100
RYKON O2		(O)	OIL SPILL HOUSE	G	P	L	7782-44-1	100

Inventory Checklist: 82791



ENCINAL TERM. J

CORN
SUGAR
STORAGE
TANKS

488'-0" SITE LAYOUT

PENNZOIL
CO

RAW GOODS STORAGE

FINISHED GOODS

DEL
MONTE
PACKING
CO

MANUFACTURING
(1947)

QUE MILKING

PRIVATE ROAD

OIL HOUSE
SHOP

BOILER ROOM

CORRUGATOR

OFFICE and SERVICE

TRUCKWELL

RAILWELL

HIBBARD STREET

PARKING

EAGLE AVENUE

BUENA VISTA AVENUE

GRAND STREET



AREAS

MANUFACTURING	129,600
FINISHED GOODS	52,600
TRUCKWELL	1,500
RAILWELL	6,200
BOILER RM., SHOP, OIL HSE.	3,600
OFFICE and SERVICE	11,000
RAW GOODS STORAGE (Additional Building)	112,000
TOTAL	298,400

RAILROAD: ALAMEDA BELT LINE

ACRES:

SCALE: 1" = 120'

41'-6" 488'-4" 10'-4" 606.04' 348.00' 270' 627.41' 488'-0"

WEYERHAEUSER PAPER CO

ALAMEDA, CALIFORNIA

SHIPPING CONTAINER PLANT

WEYERHAEUSER PAPER CO.
PACKAGING DIVISION
ALAMEDA, CA

HAZARDOUS MATERIAL BUSINESS PLAN

Attach Mailing Label Here

A. BUSINESS NAME & MAILING ADDRESS

Weyerhaeuser Paper Co.
PO Drawer X
Alameda, CA 94501

B. BUSINESS PHONE

(415) 523-6121

C. OWNER

Weyerhaeuser Company

D. SIC CODE

2653

E. ADDRESS OF FACILITY

Weyerhaeuser Paper Co.
1801 Hibbard Street
Alameda, CA 94501

F. NATURE OF BUSINESS

Manufactures/Prints
Shipping Containers

G. EMERGENCY CONTACT PERSON

	Name	Title
Primary	STEVE MINDT	
Alternate	TED GATANIS	

H. 24-Hour Phone Numbers
Business Non-Business

(415) 523-6121	(415) 521-8664 510 778 2319
(415) 523-6121	(415) 489-8256

MIKE BORASA

I. SITE LAYOUT AND FACILITY DIAGRAMS

Attach an annotated map of the facility sufficient to allow fire, safety, health, and other appropriate personnel to adequately respond to an emergency at your facility and indicate if it is available on site to first responders. See instructions.

J. NUMBER OF EMPLOYEES 158

K. SIZE OF FACILITY IN SQ. FT. 186,000 (Office & Mfg. Facility) + 112,000 (Paper Storage Facility)

L. EMERGENCY RESPONSE PLANS AND PROCEDURES

Emergency Response and Evacuation Plan for your business:

SEE ATTACHED NOTIFICATION, EMERGENCY RESPONSE AND EVACUATION PLAN

(See Instructions. Use additional sheets as required)

M. EMPLOYEE TRAINING PROGRAM

Initial and annual refresher training plan for your business:

SEE ATTACHED TRAINING PLAN

(See Instructions. Use additional sheets as required)

I certify that the information contained in this business plan is accurate, that the plan meets the requirements of Chapter 6.95 (Section 25500 et seq.) of the Health and Safety Code, that amendments and revisions to it will be submitted in accordance with that Chapter, and that I am authorized to make this certification on behalf of the above-named business.

Signature Stewart N. Smith Title Production Mgr. Date 3/1/91

If this is not an initial submission, date of last change: _____

HAZARDOUS MATERIAL
BUSINESS PLAN

WEYERHAEUSER PAPER COMPANY
PACKAGING DIVISION
ALAMEDA, CALIFORNIA

NOTIFICATION

Fire Department	911	
Alameda County, Dept. of Environmental Health	874-5116	
Gas Company (PG&E)	834-1234	
Site Emergency Coordinators:		<u>Home Phone</u>
STEVE MINDT		(415)521-8664
TED GATANIS		(415)489-8256
Hospital/Medical Emergency		
Oakland Readicare	638-0701	
Alameda Hospital	523-4357	

Hazardous Material Incident

Fire:

- Sound alarm, call 911. Advise fire department of materials involved and emergency steps taken to contain incident.
- Call site emergency coordinator.
- Call hospital/emergency aid for personnel if needed.

Spills to Sewers:

[465-3700 ex + 130]

- Call city sewer department. Tell what got into sewer, emergency containment to prevent further losses to sewer until cleaned up.
- Call site emergency coordinator.
- Call hospital/emergency aid for personnel if required.

Spills to Plant Floor, Ground (No Losses to Storm Sewer or Process Sewers):

- Call site emergency coordinator
- Call Department of Environmental Health
- Call hospital/emergency aid for personnel if required

Natural Gas Leak:

- Call 911
- Call gas company
- Call site emergency coordinator

HAZARDOUS MATERIAL
BUSINESS PLAN

WEYERHAEUSER PAPER COMPANY
PACKAGING DIVISION
ALAMEDA, CALIFORNIA

EMERGENCY RESPONSE

Who activates? Anyone

- Determine the existence or potential existence of a hazardous material emergency. If the material is not identifiable, assume it hazardous.
- Immediately:
 - .. Localize the emergency and/or the hazardous material.
 - .. For fire call 911.
 - .. Contact the site emergency coordinator.
 - .. Dispatch/use available equipment to stop leaks, plug drains, prevent off-site flows of leaked-spilled materials.
- The site emergency coordinator can also call 911 (if not already called) and county environmental health department.
- The site emergency coordinator and employees secure perimeter control of the emergency area until public agency arrival.
- The site emergency coordinator shares joint responsibility for scene control after public agency arrival.
- Plant evacuation, if required, can be determined at any time by the emergency coordinator.
- Cleanup responsibilities are assumed by Weyerhaeuser Paper Company or through a contractor.
- Decontamination: All materials are normal process material. Existing (normal) cleanup procedures are followed.

HAZARDOUS MATERIAL
BUSINESS PLAN

WEYERHAEUSER PAPER COMPANY
PACKAGING DIVISION
ALAMEDA, CALIFORNIA

CHECKLIST FOR EMERGENCY RESPONSE COORDINATOR

<u>Action</u>	<u>Responsibility</u>
1. Recognize spill, release or potential hazard	Person observing
2. Immediate notification of personnel in area, also emergency coordinator	Person observing
3. Immediate action to prevent or neutralize hazard or spill	Area employees and emergency coordinator
4. Notify county emergency response unit, <u>only</u> county <u>if</u> fire-water system in use	Emergency coordinator
5. Evacuation and/or perimeter control of area if necessary	Emergency coordinator, Area employees
6. Assign/contact county emergency response unit commander to complete emergency coordination	Emergency coordinator
7. Complete cleanup	Emergency coordinator, Weyerhaeuser Paper Co.
8. Complete final report	Emergency coordinator

HAZARDOUS MATERIAL
BUSINESS PLAN

WEYERHAEUSER PAPER COMPANY
PACKAGING DIVISION
ALAMEDA, CALIFORNIA

EVACUATION PLAN

Purpose

Evacuate all personnel from the facility to a safe location in the event of a major emergency.

Notification

Automatic to 911 when the fire hoses are used. For all other emergencies, 911 and the Alameda Department of Environmental Health must be called.

Alarm

An automatic continuous and an automatic pulsating water flow actuated alarm signals begin when the water/fire suppression system is used. All other alarms, including voice, will be determined by the site emergency coordinator.

Supervisory Personnel

- . Immediately shut down equipment.
- . Activate plant fire brigade, if required.
- . Move all remaining employees to nearest building exit.
- . Check area, including all adjacent process storage areas, for employees.
- . Plant roll stock and finished goods storage areas must be checked to alert employees about emergency.

Evacuation Signal

The signals are the dual alarms or other audible sound as designated by the site emergency coordinator.

Exit Routes

Routes from building are visible from inside the facility.

Assembly Area/Roll Call

One outside final assembly area is designated on the east side of the manufacturing/office building. Temporary outside assembly areas east and west of the paper storage building are designated. Emergency vehicle/personnel access is maintained.

Roll call at final assembly area is completed before facility reentry occurs.

All-Clear Signal

The signal is word of mouth from the plant manager or site emergency coordinator. The all-clear signal occurs after area roll calls are combined-confirmed.

HAZARDOUS MATERIAL
BUSINESS PLAN

WEYERHAEUSER PAPER COMPANY
PACKAGING DIVISION
ALAMEDA, CALIFORNIA

TRAINING

New Employees

- . Chemical use, safe chemical handling requirements and immediate emergency control if body contact occurs
 - .. Shower/eyewash locations
 - .. Hose bibs, where available
- . Use of marked walkway areas avoids chemical and nonchemical contacts
- . Proper use and maintenance of fire extinguishers
 - .. Refilling
- . Areas requiring eye and ear protection
- . Large container/proper, safe movement
- . Site emergency coordinator for additional assistance
- . Location, understanding of chemical MSDS
- . Location of major first aid and smaller first aid cabinets

All Employees

- . New training by suppliers, area emergency personnel or public response agency personnel
 - .. Local medical staff, etc.
 - .. Bulk package handling by supplier
- . Frequent team safety meetings to exchange existing and new emergency response information
- . Retrain for new chemical additions/uses
 - .. Waxes, both liquid and solid

Specific Training

- . Lift truck operator training and refresher training

- . Use local fire department for upgrade and refresher training, response quality
- . Outside vendors brought in to demonstrate latest safety equipment
- . Chemical adsorbents storage locations/uses/cleanup and disposal requirements, limitations

Key Preventive Measures/Chemicals

- . Use minimum number of containers; i.e., bulk safety containers vs. bucket-type containers.
- . Dry material storage/use; i.e, dry "pellet" sodium hydroxide rather than liquid caustic (easier/faster spill cleanup, safer handling).
- . Newer safety drums and bulk containers reduce container disposal issues. These bulk containers use lift truck handling rather than "hand truck" movement.
- . Signed (marked) chemical use areas. Aisles are marked on floor to prevent unintended employee chemical contacts.
- . Inside, not outside, chemical storage prevents direct spill-soil contacts.

Facility Emergency Equipment

- . Separate building sprinkler system
 - .. Subsystem test schedule
- . Area fire extinguishers - refill after use/monthly tests for availability and weight
- . Adsorbents, including paper, our normal raw process material

AREAS	
MANUFACTURING	129,600
FINISHED GOODS	32,600
TRUCKWELL	1,500
RAILWELL	8,200
BOILER RM., SHOP, OIL HSE.	3,500
OFFICE & SERVICE	11,000
RAW GOODS STORAGE	112,000
(Additional Building)	
TOTAL	298,400

RAILROAD: ALAMEDA BELT LINE
ACRES — 5.26

SCALE: 1" = 100'-0"

RAW GOODS STORAGE AREA

FINISHED GOODS
(1964)

MANUFACTURING
(1947)

RAILWELL

TRUCKWELL

INK ROOM

OFFICE

PROPANE TANK

OIL HOUSE

BOILER ROOM

SHOP

DIESEL TANK

CORRUGATOR

PROPERTY LINE

PARKING

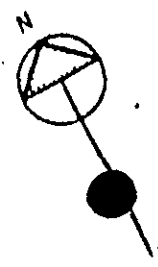
EAGLE AVENUE

SPUR TRACK

HIBBARD STREET

GRAND STREET

BUENA VISTA AVENUE



TRUCK CANOPY

PRIVATE ROAD

Section I

MATERIAL SAFETY DATA SHEET

Supplier's Name: Suburban Propane Division of National Distillers & Chemical Corp.

Emergency Phone Number: (415) 686-5811

Address: _____

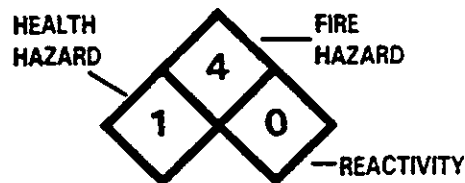
PROPANE TANK

Chemical Name: LIQUEFIED PETROLEUM GAS or PROPANE

Formula: C_3H_8

CAS Registry No.: 74-98-6 ✓ Chemical Family: Hydrocarbon

WARNING: Danger! Extremely flammable. Compressed Gas. Asphyxiant in high concentrations. Contact with liquid causes burns similar to frost bite. OSHA permissible exposure limit (PEL) 1000 ppm for an 8-hour workday.



4 - Severe
3 - Serious
2 - Moderate
1 - Slight
0 - Minimal

Appearance and Odor: Vapor and liquid are colorless. Product contains an odorant (unpleasant odor).

Section II

HAZARDOUS INGREDIENTS

Hazardous Mixtures: Air with 2.15 to 9.60 percent propane

Section III

PHYSICAL DATA

Boiling Point: -44°F
Specific Gravity ($H_2O=1$): 0.51
Vapor Density (air=1): 1.52
Solubility in Water: Slightly

Vapor Pressure (PSIG) at 100°F: 205
Percent, Volatile by Volume (%): 100
Evaporation rate: Gas at normal ambient temperatures

Section IV

FIRE AND EXPLOSION HAZARD DATA

Flash Point: -156°F (CC) Classification: Flammable Gas UN 1075
Flammable Limits - LFL: 2.15 UFL: 9.60 Extinguishing Media: Water spray-Class A-B-C or BC fire extinguisher. Special Fire Fighting Procedures: Stop flow of gas. Use water to keep fire exposed containers cool. Use water spray to disperse unignited gas or vapor. If ignition has occurred and no water available, tank metal may weaken from overheating. Evacuate area. If gas has not ignited, LP-Gas liquid or vapor may be dispersed by water spray or flooding.

Decomposition Products under Fire Conditions: Fumes, smoke, carbon monoxide, aldehydes and other decomposition products, in the case of incomplete combustion.

"EMPTY" Container Warning: "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Section V

HEALTH HAZARD

OSHA P.E.L.: 1000 PPM ACGIH TLV: 1000 PPM Effects of Overexposure: Inhalation - concentrations can lead to symptoms ranging from dizziness to anesthesia and respiratory arrest. Eyes - moderate irritation. Emergency & First Aid procedures: Inhalation - remove to fresh air. Guard against self injury. Apply artificial respiration if breathing has stopped

**Tier Two
EMERGENCY
AND
HAZARDOUS
CHEMICAL
INVENTORY**

Specific
Information
by Chemical

Facility Identification

Name WEYERHAEUSER PAPER CO.
 Street Address 1801 HIRBARD STREET
 City ALAMEDA State CA Zip 94501

INC Code 02653 Dun & Brad Number 00-130-6992

FOR OFFICIAL USE ONLY

ID # _____
 Date Received _____

Owner/Operator Name

Name WEYERHAEUSER CO. Phone 206,924-2345
 Mail Address TACOMA, WASH. 98477

Emergency Contact

Name STEVE MINDT Title PRODUCTION MANAGER
 Phone 415,523-6121 24 Hr. Phone 415,523-6121

Name _____ Title _____
 Phone () _____ 24 Hr. Phone () _____

Important: Read all instructions before completing form Reporting Period From January 1 to December 31, 10 _____

Chemical Description	Physical and Health Hazards (check all that apply)	Inventory			Storage Codes and Locations (Non-Confidential)	
		Max. Daily Amount (code)	Avg. Daily Amount (code)	No. of Days On-site (days)	Storage Code	Storage Locations
CAS <u>000092524</u> Trade Secret <input type="checkbox"/> Chem. Name <u>BIPHENYL</u> Check all that apply: <input type="checkbox"/> Pure <input checked="" type="checkbox"/> Mix <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic)	<u>03</u>	<u>02</u>	<u>365</u>	<u>B14</u>	<u>DIESEL TANK UNDERGROUND TANK NORTH WEST OUTSIDE OF BUILDING.</u>
CAS <u>000091203</u> Trade Secret <input type="checkbox"/> Chem. Name <u>NAPHTHALENE</u> Check all that apply: <input type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic)	<u>03</u>	<u>02</u>	<u>365</u>	<u>B14</u>	<u>DIESEL TANK UNDERGROUND TANK NORTH WEST OUTSIDE OF BUILDING.</u>
CAS _____ Trade Secret <input type="checkbox"/> Chem. Name _____ Check all that apply: <input type="checkbox"/> Pure <input type="checkbox"/> Mix <input type="checkbox"/> Solid <input type="checkbox"/> Liquid <input type="checkbox"/> Gas	<input type="checkbox"/> Fire <input type="checkbox"/> Sudden Release of Pressure <input type="checkbox"/> Reactivity <input type="checkbox"/> Immediate (acute) <input type="checkbox"/> Delayed (chronic)	_____	_____	_____	_____	_____

Certification (Read and sign after completing all sections)

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 responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

MIKE BOURASSA SAFETY CO ORDINATOR
 Name and official title of owner/operator OR owner/operator's authorized representative

[Signature] Signature
3-01-91 Date signed

Optional Attachments (Check one)

I have attached a site plan
 I have attached a list of site coordinate abbreviations

MATERIAL SAFETY DATA SHEET

MS

Unocal Corporation
1201 West 5th Street
Los Angeles, California 90017

Product Name: ARISTOWAX 125
Product Code No: 05757

Page 1
Issue Date: 06/21/90
Status: FINAL

LOCATED BETWEEN WEST WALL & PERMANENT

Responsible Party:

UNOCAL REFINING & MARKETING DIVISION
UNION OIL COMPANY OF CALIFORNIA
1201 WEST 5TH STREET
LOS ANGELES, CALIFORNIA 90017

CONTACT FOR FURTHER INFORMATION:
MSDS COORDINATOR 213-977-7589

Transportation Emergencies:

CHEMTREC
(800) 424-9300 Cont. U.S.
(202) 483-7616 (Collect)
from Alaska & Hawaii
Health Emergencies:
LOS ANGELES POISON
CONTROL CENTER (24 hrs)
(800) 356-3129

PRODUCT IDENTIFICATION

PRODUCT NAME: ARISTOWAX 125
GENERIC NAME: WAX
CHEMICAL FAMILY: PETROLEUM HYDROCARBON
DOT PROPER SHIPPING NAME: NOT APPLICABLE
ID NUMBER: NONE
DOT HAZARD CLASSIFICATION: NOT REGULATED

PRECAUTIONARY WARNING

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, GRIND OR DRILL ON OR NEAR CONTAINER OR EXPOSE TO ANY SOURCE OF IGNITION. "EMPTY" CONTAINER RETAINS RESIDUE (LIQUID AND/OR VAPOR) AND MAY EXPLODE IN HEAT OF A FIRE.

SECTION I - COMPONENTS	PERCENT	EXPOSURE LIMIT	UNITS	AGENCY	TYPE
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HAZARDOUS COMPONENTS

WAX, PARAFFIN, CLAY TREATED	100	2.000	mg/m3	ACGIH	TWA
CAS #: 64742-43-4		2.000	mg/m3	OSHA	TWA

OTHER COMPONENTS

--NONE--

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372:

CAS NUMBER	WEIGHT %
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--NONE--

NOTE: EXPOSURE LIMIT IS FOR FUMES.

Product Name: ARISTOWAX 125
Product Code No: 05757

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SECTION II - EMERGENCY AND FIRST AID PROCEDURES ***EMERGENCY***
Have physician call LOS ANGELES POISON
CONTROL CENTER (24 hrs) (800) 356-3129

EYE CONTACT:

IF IRRITATION OR REDNESS DEVELOPS FROM EXPOSURE TO FUMES GENERATED DURING HOT MELT PROCESSING OPERATIONS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES WITH CLEAN WATER. IF IRRITATION OR REDNESS PERSISTS, SEEK MEDICAL ATTENTION. FOR CONTACT WITH THE MOLTEN MATERIAL, GENTLY OPEN EYELIDS AND FLUSH AFFECTED EYE(S) WITH COLD WATER. SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN CONTACT:

FOR CONTACT WITH MOLTEN PRODUCT, LEAVE MATERIAL ON SKIN AND FLUSH OR IMMERSE THE AFFECTED AREA(S) USING COLD WATER. SEEK MEDICAL ATTENTION.

INHALATION (BREATHING):

IF RESPIRATORY SYMPTOMS DEVELOP FROM EXPOSURE TO FUMES EMITTED BY THE MOLTEN MATERIAL, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING):

NO FIRST AID IS NORMALLY REQUIRED; HOWEVER, IF SWALLOWED, AND SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

EYE CONTACT:

PROLONGED OR REPEATED EXPOSURE TO FUMES OR VAPORS EMITTED BY THE MOLTEN MATERIAL MAY CAUSE TEARING. CONTACT WITH THE MOLTEN MATERIAL MAY CAUSE THERMAL BURNS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE REDNESS AND BURNING. CONTACT WITH THE MOLTEN MATERIAL MAY CAUSE THERMAL BURNS. NO HARMFUL EFFECTS ARE EXPECTED FROM SKIN ABSORPTION OF THIS MATERIAL.

INHALATION (BREATHING):

INHALATION OF THE SOLID MATERIAL IS UNLIKELY. HOWEVER, FUMES FROM THE MOLTEN MATERIAL MAY CAUSE IRRITATION OF THE NOSE AND THROAT.

INGESTION (SWALLOWING):

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE DIARRHEA.

COMMENTS:

THIS MATERIAL HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY NTP, IARC OR OSHA.

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MINIMIZE EXPOSURE, ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURES MAY BE PRESENT, ELECTRICAL SYSTEMS SAFE FOR SUCH LOCATIONS MUST BE USED.

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Product Code No: 05757

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SECTION IV - SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION:**

NO RESPIRATORY PROTECTION IS REQUIRED WHEN WORKING WITH THE SOLID MATERIAL. PROTECTION FROM FUMES EMITTED FROM MOLTEN MATERIAL MAY BE NECESSARY. IF AIRBORNE CONCENTRATIONS EXCEED RECOMMENDED EXPOSURE LIMITS (SEE SECTION I), A SUITABLE FILTER-TYPE RESPIRATOR SHOULD BE WORN.

PROTECTIVE GLOVES:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION. THE USE OF HEAT RESISTANT GLOVES IS RECOMMENDED.

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY DURING HOT MELT PROCESSING OPERATIONS IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

SECTION V - REACTIVITY DATA**REACTIVITY:**

STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS AFFECTING REACTIVITY:

AVOID ALL POSSIBLE SOURCES OF IGNITION (SEE SECTIONS VII AND VIII).

INCOMPATIBLE MATERIALS:

AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTION MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON AND MINOR AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

POLYMERIZATION CONDITIONS TO AVOID:

NONE KNOWN

SECTION VI - SPILL AND LEAK PROCEDURES

HIGHWAY OR RAILWAY SPILLS
Call CHEMTREC (800) 424-9300 Cont. U.S.
(Collect) (202) 483-7616 from Alaska & Hawaii.

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

MAY IGNITE. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. STAY UPWIND AND AWAY FROM SPILL/RELEASE. ISOLATE HAZARD AREA AND LIMIT ENTRY TO AUTHORIZED PERSONNEL. STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED TREATMENT/DRAINAGE SYSTEMS AND NATURAL WATERWAYS. NOTIFY APPROPRIATE FEDERAL, STATE AND LOCAL AGENCIES. CLEANUP UNDER EXPERT SUPERVISION IS ADVISED. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING

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SECTION VI - SPILL AND LEAK PROCEDURES

SHORELINES, NOTIFY THE NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

WASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS**HANDLING AND STORAGE PRECAUTIONS:**

USE AND STORE THIS MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS PRODUCT, REFER TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ANSI Z49.1, AND OTHER GOVERNMENTAL AND INDUSTRIAL REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

NFPA HAZARD CLASS	HEALTH HAZARD: FLAMMABILITY: REACTIVITY: OTHER:	HAZARD RANKING		FLASH POINT
		0 - LEAST	4 - EXTREME	
	0 1 0 0	0 - LEAST	4 - EXTREME	430 F (COC) 221 C

EXTINGUISHING MEDIA:

DRY CHEMICAL, FOAM, WATER OR SAND IS RECOMMENDED.

UNUSUAL FIRE & EXPLOSION HAZARDS:

THIS MATERIAL MAY BURN, BUT WILL NOT IGNITE READILY.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME.

SECTION IX - PHYSICAL DATA

***UNLESS OTHERWISE NOTED, VALUES ARE AT
20 C/68 F AND 760 mm Hg/1 atm.

APPROX BOILING POINT

>600 F / >343 C

§ VOLATILE

NEGLECTIBLE

§ SOLUBILITY IN WATER

NEGLECTIBLE

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SECTION IX - PHYSICAL DATA

SPECIFIC GRAVITY

0.92

APPEARANCE

WHITE SOLID

ODOR

NONE TO SLIGHT CHARACTERISTIC PETROLEUM

SECTION X - DOCUMENTARY INFORMATION

ISSUE DATE: 06/21/90 PRODUCT CODE NO. 05757
PREV. DATE: 07/26/89 PREV. PROD. CODE NO. NONE
MSDS NO: NONE PREV. MSDS NO: NONE

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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MATERIAL SAFETY DATA SHEET



Product Name: UNOCAL DIESEL #2
 Product Code No: 01602

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 Issue Date: 05/09/90
 Status: FINAL

NEBEL TANK

Responsible Party:
 UNOCAL REFINING & MARKETING DIVISION
 UNION OIL COMPANY OF CALIFORNIA
 1201 WEST 5TH STREET
 LOS ANGELES, CALIFORNIA 90017
 CONTACT FOR FURTHER INFORMATION:
 MSDS COORDINATOR 213-977-7589

Transportation Emergencies:
 CHEMTREC
 (800) 424-9300 Cont. U.S.
 (202) 483-7616 (Collect)
 from Alaska & Hawaii
Health Emergencies:
 Call LOS ANGELES POISON
 INFORMATION CENTER (24 hrs)
 (800) 356-3129

PRODUCT IDENTIFICATION

PRODUCT NAME: UNOCAL DIESEL #2
SYNONYMS: UNION DIESEL #2
GENERIC NAME: MID-DISTILLATE
CHEMICAL FAMILY: PETROLEUM HYDROCARBON
DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, N.O.S. (MID DISTILLATE)
ID NUMBER: NA1993
DOT HAZARD CLASSIFICATION: COMBUSTIBLE LIQUID

PRECAUTIONARY WARNING

WARNING
 MAY CAUSE SEVERE SKIN IRRITATION AFTER PROLONGED OR REPEATED CONTACT. BREATHING DIESEL EXHAUST MAY CAUSE LUNG CANCER. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. COMBUSTIBLE. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. AVOID BREATHING EXHAUST FUMES. DO NOT TASTE OR SWALLOW. WASH THOROUGHLY AFTER HANDLING. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. KEEP AWAY FROM HEAT, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION (e.g. STATIC ELECTRICITY, PILOT LIGHTS OR MECHANICAL/ELECTRICAL EQUIPMENT). DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, GRIND OR DRILL ON OR NEAR CONTAINER. "EMPTY" CONTAINER RETAINS RESIDUE (LIQUID AND/OR VAPOR) AND MAY EXPLODE IN HEAT OF A FIRE.

SECTION I - COMPONENTS	PERCENT	EXPOSURE LIMIT	UNITS	AGENCY	TYPE
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HAZARDOUS COMPONENTS

DIESEL OIL NO. 2 CAS #: 68476-34-6	>98	400.000	ppm	OSHA	TWA
BIPHENYL CAS #: 92-52-4	0.0 - 1.0	0.200	ppm	ACGIH	TWA
		0.200	ppm	MSHA	TWA
		0.200	ppm	OSHA	TWA
		0.200	ppm	CAL OSHA	TWA

UNION OIL CO.

Product Name: UNOCAL DIESEL #2
Product Code No: 01602

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SECTION I - COMPONENTS	PERCENT	EXPOSURE LIMIT	UNITS	AGENCY	TYPE
NAPHTHALENE CAS #: 91-20-3	0.0 - 1.0	10.000	ppm	ACGIH	TWA
		15.000	ppm	ACGIH	STEL
		10.000	ppm	MSHA	TWA
		10.000	ppm	OSHA	TWA
		15.000	ppm	OSHA	STEL
		10.000	ppm	CAL OSHA	TWA

OTHER COMPONENTS

--NONE--

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372:

	CAS NUMBER	WEIGHT %
BIPHENYL	92-52-4	0-1
NAPHTHALENE	91-20-3	0-1

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

EMERGENCY

Have physician call LOS ANGELES POISON INFORMATION CENTER (24 hrs) (800) 356-3129

EYE CONTACT:

IF IRRITATION OR REDNESS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES WITH CLEAN WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

WIPE MATERIAL FROM SKIN, REMOVE CONTAMINATED SHOES AND CLOTHING, AND FLUSH AFFECTED AREA(S) WITH LARGE AMOUNTS OF WATER. IF SKIN SURFACE IS DAMAGED, APPLY A CLEAN DRESSING AND SEEK MEDICAL ATTENTION. IF SKIN SURFACE IS NOT DAMAGED, CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS, SEEK MEDICAL ATTENTION.

INHALATION (BREATHING):

IF RESPIRATORY SYMPTOMS OR OTHER SYMPTOMS OF EXPOSURE DEVELOP, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK IMMEDIATE MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING):

ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. IF VICTIM IS DROWSY OR UNCONSCIOUS, PLACE ON THE LEFT SIDE WITH THE HEAD DOWN. IF POSSIBLE, DO NOT LEAVE VICTIM UNATTENDED. SEEK MEDICAL ATTENTION.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

EYE CONTACT:

THIS MATERIAL MAY CAUSE MILD EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID OR EXPOSURE TO VAPORS OR MISTS MAY CAUSE STINGING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL IS A SKIN IRRITANT. PROLONGED OR REPEATED CONTACT MAY CAUSE SEVERE IRRITATION INCLUDING REDNESS AND BURNING, DRYING AND CRACKING OF THE SKIN, AND SEVERE SKIN DAMAGE. NO HARMFUL EFFECTS ARE EXPECTED FROM SKIN ABSORPTION OF THIS MATERIAL.

UNION OIL CO.

Product Name: UNOCAL DIESEL #2
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SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

INHALATION (BREATHING):

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, BREATHING HIGH CONCENTRATIONS OF VAPORS OR MISTS MAY CAUSE IRRITATION OF THE NOSE AND THROAT AND SIGNS OF NERVOUS SYSTEM DEPRESSION (e.g. HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, AND FATIGUE).

INGESTION (SWALLOWING):

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT AND SIGNS OF NERVOUS SYSTEM DEPRESSION (e.g. HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, AND FATIGUE). ASPIRATION HAZARD - THIS MATERIAL CAN ENTER LUNGS DURING SWALLOWING OR VOMITING AND CAUSE LUNG INFLAMMATION AND DAMAGE.

COMMENTS:

DIESEL EXHAUST IS A PROBABLE HUMAN CANCER HAZARD, BUT IT HAS NOT BEEN IDENTIFIED AS A CARCINOGEN BY IARC, NTP OR OSHA.

SECTION IV - SPECIAL PROTECTION INFORMATION**VENTILATION:**

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURES MAY BE PRESENT, ELECTRICAL SYSTEMS SAFE FOR SUCH LOCATIONS MUST BE USED.

RESPIRATORY PROTECTION:

THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I). DEPENDING ON THE AIRBORNE CONCENTRATION, USE A RESPIRATOR OR GAS MASK WITH APPROPRIATE CARTRIDGES AND CANNISTERS (NIOSH APPROVED, IF AVAILABLE) OR SUPPLIED AIR EQUIPMENT.

PROTECTIVE GLOVES:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION.

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

IT IS SUGGESTED THAT A SOURCE OF CLEAN WATER BE AVAILABLE IN THE WORK AREA FOR FLUSHING EYES AND SKIN. IMPERVIOUS CLOTHING SHOULD BE WORN AS NEEDED.

SECTION V - REACTIVITY DATA**REACTIVITY:**

STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

UNION OIL CO.

Product Name: UNOCAL DIESEL #2
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SECTION V - REACTIVITY DATA**CONDITIONS AFFECTING REACTIVITY:**

AVOID CONTACT WITH ANY SOURCE OF HEAT OR FLAME.

INCOMPATIBLE MATERIALS:

AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTION MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON AND MINOR AMOUNTS OF OXIDES OF SULFUR AND NITROGEN.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

POLYMERIZATION CONDITIONS TO AVOID:

NONE KNOWN

SECTION VI - SPILL AND LEAK PROCEDURES ***HIGHWAY OR RAILWAY SPILLS***
Call CHEMTREC (800) 424-9300 Cont. U.S.
(Collect) (202) 483-7616 from Alaska & Hawaii

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

COMBUSTIBLE. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. STAY UPWIND AND AWAY FROM SPILL/RELEASE. ISOLATE HAZARD AREA AND LIMIT ENTRY TO AUTHORIZED PERSONNEL. STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED TREATMENT DRAINAGE SYSTEMS AND NATURAL WATERWAYS. DIKE FAR AHEAD OF SPILL FOR LATER RECOVERY OR DISPOSAL. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBENT MATERIAL. NOTIFY FIRE AUTHORITIES AND APPROPRIATE FEDERAL, STATE AND LOCAL AGENCIES. IMMEDIATE CLEANUP OF ANY SPILL IS RECOMMENDED. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY THE NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

WASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS**HANDLING AND STORAGE PRECAUTIONS:**

KEEP CONTAINER(S) TIGHTLY CLOSED. USE AND STORE THIS MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. POST AREA "NO SMOKING OR OPEN FLAME." BOND AND GROUND ALL EQUIPMENT WHEN TRANSFERRING FROM ONE VESSEL TO ANOTHER. STORE ONLY IN APPROVED CONTAINERS. KEEP AWAY FROM ANY INCOMPATIBLE MATERIALS (SEE SECTION V). PROTECT CONTAINER(S) AGAINST PHYSICAL DAMAGE. THE USE OF EXPLOSION-PROOF EQUIPMENT IS RECOMMENDED AND MAY BE REQUIRED (SEE APPROPRIATE FIRE CODES). DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES SUCH AS ASTM D-4276. OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND APPROPRIATE FIRE CODES. THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED ANY ESTABLISHED EXPOSURE LIMITS (SEE SECTIONS I AND IV). WASH THOROUGHLY AFTER HANDLING. DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. USE GOOD PERSONAL HYGIENE PRACTICE. "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY

UNION OIL CO.

Product Name: UNOCAL DIESEL #2
 Product Code No: 01602

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SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS PRODUCT, REFER TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ANSI Z49.1, AND OTHER GOVERNMENTAL AND INDUSTRIAL REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

NFPA HAZARD CLASS	HEALTH HAZARD:	0	HAZARD RANKING	FLASH POINT 140-190 F (PMCC) 60-87 C
	FLAMMABILITY:	2	0 = LEAST	
	REACTIVITY:	0	1 = SLIGHT	
	OTHER:		2 = MODERATE	
			3 = HIGH	
			4 = EXTREME	

EXTINGUISHING MEDIA:

DRY CHEMICAL, CARBON DIOXIDE, HALON, FOAM OR WATER SPRAY IS RECOMMENDED.

UNUSUAL FIRE & EXPLOSION HAZARDS:

THIS MATERIAL IS COMBUSTIBLE AND MAY BE IGNITED BY HEAT, SPARKS, FLAME OR OTHER SOURCES OF IGNITION (e.g. STATIC ELECTRICITY, PILOT LIGHTS, MECHANICAL/ELECTRICAL EQUIPMENT). VAPORS MAY TRAVEL CONSIDERABLE DISTANCES TO A SOURCE OF IGNITION WHERE THEY MAY IGNITE, FLASHBACK OR EXPLODE. VAPOR/AIR EXPLOSION HAZARD INDOORS/OUTDOORS OR IN SEWERS. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

SECTION IX - PHYSICAL DATA

***UNLESS OTHERWISE NOTED, VALUES ARE AT 20 C/68 F AND 760 mm Hg/1 atm.

<u>APPROX BOILING POINT</u>	(AIR = 1) <u>VAPOR DENSITY</u>	(N-BUTYL ACETATE = 1) <u>EVAPORATION RATE</u>	<u>% VOLATILE</u>
490-700 F / 232-271 C	>1	<1	98

% SOLUBILITY IN WATER

<0.1

SPECIFIC GRAVITY

0.85

APPROX. BULK DENSITY (LB/GAL)

7.0

APPEARANCE

CLEAR TO YELLOW LIQUID

ODOR

CHARACTERISTIC PETROLEUM

UNION OIL CO.

Product Name: UNOCAL DIESEL #2
Product Code No: 01602

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Issue Date: 05/09/90
Status: FINAL

SECTION X - DOCUMENTARY INFORMATION

ISSUE DATE: 05/09/90 PRODUCT CODE NO. 01602
PREV. DATE: 12/18/89 PREV. PROD. CODE NO. N/A
MSDS NO: N/A PREV. MSDS NO: N/A

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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*** MATERIAL SAFETY DATA SHEET ***

National Starch and Chemical Company
 Finderne Avenue
 P.O. Box 6500
 Bridgewater, NJ 08807
 Corporate and emergency telephone: 908-685-5000

1. PRODUCT IDENTIFICATION

FILL NUMBER..... 29-9760
 PRODUCT NAME..... CASCO-RESIN COLF-6
 CHEMICAL FAMILY..... Ketone Aldehyde

2. HAZARDOUS INGREDIENTS

INGREDIENT NAME/CAS NUMBER/PERCENTAGE -----	EXPOSURE LIMITS -----
Formaldehyde CAS NUMBER..... 50-00-0 OSHA PERCENTAGE.. 0.6 COMMENTS..... 1000 pounds CERCLA section 103 reportable quantity.	OSHA... 1 ppm TWA ACGIH.. 1 ppm TWA STEL... 2 ppm CEIL... 5 ppm
Sodium hydroxide CAS NUMBER..... 1310-73-2 OSHA PERCENTAGE.. 1.46 COMMENTS..... 1000 pounds CERCLA section 103 reportable quantity.	OSHA... 2 mg/m3 TWA ACGIH.. 2 mg/m3 TWA STEL... Not noted CEIL... 2 mg/m3

3. PHYSICAL DATA

PURE MATERIAL OR MIXTURE..... Mixture
 PHYSICAL FORM..... Liquid
 APPEARANCE/PHYSICAL DESCRIPTION.. Clear/hazy liquid
 PH AS IS..... Approx. 9
 BOILING-POINT..... Approx. 102 C
 SOLUBILITY IN WATER..... Soluble
 SPECIFIC GRAVITY (WATER = 1)..... 1.200

*** MATERIAL SAFETY DATA SHEET ***

3. PHYSICAL DATA (Continued)

BULK DENSITY..... Not noted
VOLATILES..... 40% at 105C
EVAPORATION RATE..... 0.3 (Butyl Acetate)
VAPOR PRESSURE (mmHg)..... 50 at 21C
VAPOR DENSITY (AIR = 1)..... Not noted
VOLATILE ORGANIC COMPOUNDS..... Not noted

4. FIRE AND EXPLOSION DATA

AUTOIGNITION..... Not noted
FLASH POINT..... >212 Fahrenheit; Method: Tagliabue
closed tester/Tag closed tester
UPPER EXPLOSIVE LIMIT (%)..... Not applicable
LOWER EXPLOSIVE LIMIT (%)..... Not applicable
EXTINGUISHING MEDIA..... Water fog; Foam; Dry chemical; CO2
SPECIAL FIREFIGHTING PROCEDURES.. Cool exposed equipment with water spray
FIRE & EXPLOSION HAZARDS..... Negligible fire hazard when exposed to
heat or flame.
NFPA FLAMMABILITY HAZARD CLASS... Not noted

5. HEALTH EFFECTS DATA

SHORT TERM EFFECTS OF EXPOSURE

ROUTE OF ENTRY..... Eye contact; Skin contact; Inhalation;
Ingestion
ACUTE EFFECTS--EYE..... Severely irritating. If not removed
promptly, will injure eye tissue,
which may result in permanent damage.
ACUTE EFFECTS--SKIN CONTACT..... Frequent or prolonged contact may
irritate the skin.
ACUTE EFFECTS--INHALATION..... Vapors may be irritating to respiratory
system and nasal passages.
ACUTE EFFECTS--INGESTION..... Irritating to mouth, throat and stomach.
May cause gastric tract disorder
and/or damage.

*** MATERIAL SAFETY DATA SHEET ***

5. HEALTH EFFECTS DATA (Continued)

FIRST AID PROCEDURES

EYE..... Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Get prompt medical attention.

SKIN CONTACT..... Immediately flush with large amounts of water; use soap if available. Remove contaminated clothing, including shoes, after flushing has begun.

INHALATION..... Remove to fresh air. Get medical attention if irritation persists.

INGESTION..... If individual is conscious, give water to dilute stomach contents. Get prompt medical attention.

LONG-TERM EFFECTS OF EXPOSURE

EFFECTS OF CHRONIC EXPOSURE..... Some reports suggest that formaldehyde may cause asthma and that pre-existing respiratory and skin disorders may be aggravated by exposure.

TARGET ORGANS..... Respiratory system; Skin; Eyes

SPECIAL HEALTH EFFECTS

CARCINOGEN (OSHA guidelines)..... Potential

TOXICOLOGY INFORMATION

Formaldehyde
ORAL LD50, SPECIES TESTED..... 800 mg/kg oral-rat; 42mg/kg oral-mouse.
DERMAL LD50, SPECIES TESTED..... Not available
NOTES ON DERMAL TOXICITY..... 150 ug/3 days/intermittent skin-human
mild irritation; 540 mg open

*** MATERIAL SAFETY DATA SHEET ***

5. HEALTH EFFECTS DATA (Continued)

skin-rabbit mild irritation; 50 mg/24 hours skin-rabbit moderate irritation; 500 mg/24 hours skin-rabbit severe irritation.

INHALATION LC50, SPECIES TESTED.. 590mg/m³ inhalation-rat.
 NOTES ON INHALATION TOXICITY..... 17 mg/m³/30 minutes inhalation-human TLo.

NOTES ON EYE IRRITATION..... 750 ug eye-rabbit sever irritation; 4ppm/5 minutes eye-human irritation; 50ug/24 hours eye-rabbit severe irritation; 10 mg eye-rabbit severe irritation.

OTHER NOTES ON TOXICITY..... Formaldehyde is highly toxic, a severe skin, eye and mucous membrane irritant, and a skin and pulmonary sensitizer.
 Positive animal carcinogen (IARC);
 suspect human carcinogen (NTP);
 indefinite human carcinogen (IARC).

Sodium Hydroxide
 NOTES ON ORAL TOXICITY..... 500 mg/kg oral-rabbit LDLo
 NOTES ON DERMAL TOXICITY..... 50 mg/24 hours skin-rabbit severe irritation
 NOTES ON EYE IRRITATION..... 1%/24 hours eye-monkey severe irritation; 1% eye-rabbit severe irritation; 50 ug/24 hours eye-rabbit severe irritation; 400 ug eye-rabbit mild irritation
 OTHER NOTES ON TOXICITY..... Sodium Hydroxide is a severe eye, skin and mucous membrane irritant.

6. RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT

CONDITIONS UNDER WHICH PPE REQ'D. Normal work conditions
 EYE PROTECTION REQUIREMENTS..... Wear chemical goggles.
 GLOVE REQUIREMENTS..... Impervious neoprene or rubber gloves are recommended.
 CLOTHING REQUIREMENTS..... Employee must wear appropriate protective clothing and equipment to prevent any possibility of skin

*** MATERIAL SAFETY DATA SHEET ***

6. RECOMMENDATIONS FOR PERSONAL PROTECTIVE EQUIPMENT (Continued)

CHANGE/REMOVAL OF CLOTHING..... contact with this substance. Not noted
WASH REQUIREMENTS..... Wash with soap and water
RESPIRATOR REQUIREMENTS..... Avoid prolonged or repeated breathing of vapor or mists. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure.
VENTILATION REQUIREMENTS..... Local

7. REACTIVITY

STABILITY..... Stable
INCOMPATIBILITIES..... Not noted
NFPA REACTIVITY HAZARD CLASS..... 0 = Insignificant
HAZARDOUS DECOMPOSITION PRODUCTS. Decomposition products may include carbon monoxide, carbon dioxide, aldehydes (including formaldehyde), hydrogen cyanide.
Combustion products of organic compounds.
HAZARDOUS POLYMERIZATION..... Will not occur

8. SPILL AND LEAK PROCEDURES

SPILL OR LEAK PROCEDURES..... Spills should be taken up with suitable absorbent and placed in containers. Spill area can be washed with water; collect wash water for approved disposal. Do not flush to storm sewer or waterway.
WASTE DISPOSAL METHODS..... Waste disposal should be in accordance with existing federal, state and local environmental regulations.

*** MATERIAL SAFETY DATA SHEET ***

12. TECHNICAL CONTACT (Continued)

TECHNICAL CONTACT... Fred D. Schultz
Senior Regulatory Coordinator
Industrial & Food Starch Division
National Starch & Chemical Company
Finderne Avenue, P.O. Box 6500
Bridgewater, NJ 08807
908-685-5280

-ADDITIONAL INFORMATION-

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND NOT COMBINED WITH OTHER PRODUCT(S). SUCH ARE BASED ON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND ARE BELIEVED TO BE ACCURATE. NO GUARANTY OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.

MATERIAL SAFETY DATA SHEET

FOR PRINTING INK AND RELATED MATERIALS

Health 1
 Flammability 1
 Reactivity 0

E.C.

INFORMATION ON THIS FORM IS PROPRIETARY INFORMATION AND FURNISHED SOLELY FOR THE USE OF OUR CUSTOMERS

DATE OF PREP. Feb. 1989 PREPARED BY Robert H. Messing

Section I INK ROOM

MANUFACTURER'S NAME: J. M. Huber Corporation
 STREET ADDRESS: 333 Thornall St. EMERGENCY TELEPHONE NUMBER: 201-906-1760
 CITY, STATE AND ZIP CODE: Edison, NJ 08818
 PRODUCT CLASS: Water-based Flexographic Ink.
 TRADE NAME: Huberflex and Huberlene MANUFACTURER'S CODE IDENTIFICATION: 155/156 Series

Section II - HAZARDOUS INGREDIENTS

Ingredient:	%	Hazard Data:		
		OSHA PEL	ACGIH TLV	OTHER
Ethanol, CAS No. 64-17-5	4	1000 ppm	1000 ppm	None
Methanol, CAS No. 67-56-1	0.75	200 ppm	200 ppm 250 ppm STEL	None

Has this product or any of its ingredients in concentrations above 0.1% been reported as a carcinogen in:

NTP? No IRAC Monographs? No OSHA Regulations: No
 VOC Less Water < 250 g/l

Section III - PHYSICAL DATA

BOILING RANGE °F 200	VAPOR DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. air LIGHTER <input type="checkbox"/>	LIQUID DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. water LIGHTER <input type="checkbox"/>	TYPE OF ODOR Sweet
APPEARANCE Thin Liquid	EVAPORATION RATE FASTER <input type="checkbox"/> vs. Butyl Acetate SLOWER <input checked="" type="checkbox"/>	Solubility in Water Completely Miscible	

Section IV - FIRE & EXPLOSION DATA

FLAMMABILITY CLASSIFICATION	OSHA: II DOT: Combustible	FLASH POINT °F 120 (Method Used) PMCC	LEL Not Determine
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EXTINGUISHING MEDIA:

FOAM ALCOHOL FOAM CO2 DRY CHEMICAL WATER FOG OTHER

USUAL FIRE AND EXPLOSION HAZARDS: None

SPECIAL FIREFIGHTING PROCEDURES: None

Section V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE Ethanol is present at approximately 4%. Methanol is present only as a denaturant at less than 1%. At these levels, the effects of overexposure of the printing inks are: Inhalation: Headache, nausea, drowsiness

Skin: Mild irritation possible with prolonged or repeated contact.

Eye: Mild irritation possible with prolonged or repeated contact.

Ingestion: May cause gastrointestinal discomfort.

Medical Conditions

Generally Aggravated by Exposure

Pre-existing skin, eye and respiratory disorders may be aggravated by overexposure to ethanol or methanol.

PRIMARY ROUTE(S) OF ENTRY:

DERMAL

INHALATION

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Remove to fresh air.

Skin: Wash with soap and water.

Eye: Flush with water for 15 minutes. If irritation persists seek medical aid.

Ingestion: Give liquids and induce vomiting unless victim is unconscious. Seek medical aid.

Section VI - REACTIVITY DATA

PRODUCT STABILITY

STABLE

UNSTABLE

CONDITIONS TO AVOID Avoid contact with strong acids, alkalies or oxidizers.

Section VII - SPILL OR LEAK PROCEDURES

PROCEDURE WHEN MATERIAL SPILLED OR RELEASED

Clean up and dispose of waste as below

WASTE DISPOSAL METHOD Follow federal, state and local regulations.

Section VIII - SPECIAL PROTECTION INFORMATION

VENTILATION

As needed to control vapor inhalation.

PROTECTIVE GLOVES

As needed to prevent prolonged or repeated skin contact.

RESPIRATORY PROTECTION

As needed to control vapor inhalation.

EYE PROTECTION

As needed to prevent prolonged or repeated contact.

OTHER PROTECTIVE EQUIPMENT

None

Section IX - SPECIAL PRECAUTIONS

HANDLING AND STORING

NFPA Class II Storage

OTHER PRECAUTIONS

None

MATERIAL SAFETY DATA SHEET

FOR PRINTING INK AND RELATED MATERIALS

INFORMATION ON THIS FORM IS PROPRIETARY INFORMATION AND FURNISHED SOLELY FOR THE USE OF OUR CUSTOMERS

HAZARD RATINGS
 Normal..... 0
 Slight..... 1
 Moderate..... 2
 Serious..... 3
 Severe..... 4

MSD Sheet - R/5

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

DATE OF PREP: 10-27-87 PREPARED BY C. L. Politowicz

Section I

INK ROOM

MANUFACTURER'S NAME: Flint Ink Corporation
 STREET ADDRESS: 4600 Arrowhead Drive CITY, STATE AND ZIP CODE: Ann Arbor, MI 48107
 EMERGENCY TELEPHONE NUMBER: (313) 995-3100
 PRODUCT CLASS: Flexographic Inks
 TRADE NAME: Arrowpak MANUFACTURER'S CODE IDENTIFICATION: R

Section II - HAZARDOUS INGREDIENTS

Ingredient:	Hazard Data:
Ammonia <i>264-41-7</i>	TLV - 25ppm, OSHA PEL - 50ppm. - Irritant to eyes and respiratory tract.
Monoethanolamine <i>141-435</i>	Causes severe eye irritation. May cause skin irritation.

Section III - PHYSICAL DATA

BOILING RANGE °F 210-230	VAPOR DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. air LIGHTER <input type="checkbox"/>	LIQUID DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. water LIGHTER <input type="checkbox"/>	TYPE OF ODOR Mildly ammoniacal
APPEARANCE Fluid Ink	EVAPORATION RATE FASTER <input type="checkbox"/> vs. Butyl Acetate SLOWER <input checked="" type="checkbox"/>	PERCENT VOLATILE WT. 45-50%	

Section IV - FIRE & EXPLOSION DATA

FLAMMABILITY CLASSIFICATION	OSHA Class III B DOT Not Regulated	FLASH POINT °F Greater than 200 F (Method Used) P.M.C.C.	LEL NA
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EXTINGUISHING MEDIA:

FOAM "ALCOHOL" FOAM CO2 DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS

No fire hazard; nonflammable.

SPECIAL FIREFIGHTING PROCEDURES Water may be used to cool containers to prevent pressure

P 0 2

01.26.89 04:59PM *FLINT INK *R&D

SAFETY DATA SHEET

HAZARD RATINGS MSD Sheet # R/5

INK AND RELATED MATERIALS

Minimal..... 0
Slight..... 1
Moderate..... 2
Serious..... 3
Severe..... 4

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

FORM IS PROPRIETARY INFORMATION AND FURNISHED SOLELY TO YOU BY ONE OF OUR CUSTOMERS

DATE OF PREP: 10-27-87

PREPARED BY C. L. Politowicz

Section I

MANUFACTURER'S NAME: Flint Ink Corporation

STREET ADDRESS: 4600 Arrowhead Drive

CITY, STATE AND ZIP CODE: Ann Arbor, MI 48107

EMERGENCY TELEPHONE NUMBER: (313) 995-3100

PRODUCT CLASS: Flexographic Inks

TRADE NAME: Arrowpak

MANUFACTURER'S CODE IDENTIFICATION:

Section II - HAZARDOUS INGREDIENTS

Ingredient:	Hazard Data:
Ammonia	TLV - 25ppm, OSHA PEL - 50ppm. - Irritant to eyes and respiratory tract.
Monoethanolamine	Causes severe eye irritation. May cause skin irritation.

Section III - PHYSICAL DATA

BOILING RANGE °F 210-230	VAPOR DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. air LIGHTER <input type="checkbox"/>	LIQUID DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. water LIGHTER <input type="checkbox"/>	TYPE OF ODOR Mildly ammoniacol
APPEARANCE Fluid Ink	EVAPORATION RATE FASTER <input type="checkbox"/> vs. Butyl Acetate SLOWER <input checked="" type="checkbox"/>	PERCENT VOLATILE WT. 45-50%	

Section IV - FIRE & EXPLOSION DATA

FLAMMABILITY CLASSIFICATION	OSHA Class III B DOT Not Regulated	FLASH POINT °F Greater than 200 F (Method Used) P.M.C.C.	LEL NA
-----------------------------	---------------------------------------	---	-----------

EXTINGUISHING MEDIA:

X FOAM X "ALCOHOL" FOAM X CO2 X DRY CHEMICAL X WATER FOG O OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS

No fire hazard; nonflammable.

SPECIAL FIREFIGHTING PROCEDURES

Water may be used to cool containers to prevent pressure

MATERIAL SAFETY DATA SHEET

FOR PRINTING INK AND RELATED MATERIALS

INFORMATION ON THIS FORM IS PROPRIETARY INFORMATION AND FURNISHED SOLELY FOR THE USE OF OUR CUSTOMERS

HAZARD RATINGS

Normal..... 0
Slight..... 1
Moderate..... 2
Serious..... 3
Severe..... 4

MSD Sheet - R/5

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

OF PREP: 10-27-87 PREPARED BY C. L. Politowicz

Section I

MANUFACTURER'S NAME: Flint Ink Corporation
 STREET ADDRESS: 4600 Arrowhead Drive CITY, STATE AND ZIP CODE: Ann Arbor, MI 48107
 EMERGENCY TELEPHONE NUMBER: (313) 995-3100
 PRODUCT CLASS: Flexographic Inks
 TRADE NAME: Arrowpak MANUFACTURER'S CODE IDENTIFICATION:

Section II - HAZARDOUS INGREDIENTS

Ingredient:	Hazard Data:
Ammonia	TLV - 25ppm, OSHA PEL - 50ppm. - Irritant to eyes and respiratory tract.
Monoethanolamine	Causes severe eye irritation. May cause skin irritation.

Section III - PHYSICAL DATA

BOILING RANGE °F 210-230	VAPOR DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. air LIGHTER <input type="checkbox"/>	LIQUID DENSITY: HEAVIER <input checked="" type="checkbox"/> vs. water LIGHTER <input type="checkbox"/>	TYPE OF ODOR Mildly ammoniacal
APPEARANCE Fluid Ink	EVAPORATION RATE FASTER <input type="checkbox"/> vs. Butyl Acetate SLOWER <input checked="" type="checkbox"/>	PERCENT VOLATILE WT. 45-50%	

Section IV - FIRE & EXPLOSION DATA

FLAMMABILITY CLASSIFICATION OSHA Class III B DOT Not Regulated	FLASH POINT °F Greater than 200 °F (Method Used) P.M.C.C.	LEL NA
--	--	-----------

EXTINGUISHING MEDIA:

FOAM "ALCOHOL" FOAM CO2 DRY CHEMICAL WATER FOG OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS

No fire hazard; nonflammable.

SPECIAL FIREFIGHTING PROCEDURES

Water may be used to cool containers to prevent pressure

FOR

10 26 89 04:59 PM *FLINT INK R&D



*** LIQUID CAUSTIC SODA, 50%

MSDS NUMBER: 0014
 DATE: 04/03/91
 EDITION: 011
 TRADE NAME: LIQUID CAUSTIC SODA, 50%
 CHEMICAL NAME/SYNONYMS: SODIUM HYDROXIDE
 CHEMICAL FAMILY: ALKALI
 FORMULA: NaOH
 U.S. DOT SHIPPING NAME: SODIUM HYDROXIDE, SOLUTION
 U.S. DOT HAZARD CLASS: CORROSIVE MATERIAL
 SUBSIDIARY RISK: N/A
 I.D. NUMBER: UN1824
 REPORTABLE QUANTITY: 1000 LBS./454 KG.

GAS NUMBER: 001310 73 2

SECTION 1 * PHYSICAL DATA

BOILING POINT @ 760 MM HG: 142 C (288 F)
 VAPOR DENSITY (AIR=1): N/A
 SPECIFIC GRAVITY (H2O=1): 1.530 @ 60/60 F
 PH OF SOLUTIONS: STRONGLY BASIC
 FREEZING/MELTING POINT: 5-11 C (1-51 F)
 SOLUBILITY (WEIGHT % IN WATER): 347/100 G WATER @ 100 C
 BULK DENSITY: 12.76 LBS/GAL @ 60 F
 VOLUME % VOLATILE: 50%
 VAPOR PRESSURE: 1 MM HG
 EVAPORATION RATE: N/A
 HEAT OF SOLUTION: EXOTHERMIC
 APPEARANCE AND ODOR:
 WATER WHITE TO SLIGHTLY TURBID LIQUID; NO ODOR

SECTION 2 * INGREDIENTS

MATERIAL	PERCENT
SODIUM HYDROXIDE	50

SECTION 3 * FIRE/EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED):
NONE

*** 24-HOUR EMERGENCY ASSISTANCE: (304) 843-1300 ***

FLAMMABLE LIMITS IN AIR (% BY VOLUME)

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

NOT APPLICABLE

SPECIAL FIRE FIGHTING PROCEDURES:

NONE

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTACT WITH SOME METALS, PARTICULARLY MAGNESIUM, ALUMINUM, AND ZINC (GALVANIZED), CAN GENERATE HYDROGEN RAPIDLY, WHICH IS EXPLOSIVE.

SECTION 4 * HEALTH HAZARD DATA

TOXICITY DATA:

LC50 INHALATION: SEE SECTION 5

LD50 DERMAL: SEE SECTION 5

SKIN/EYE IRRITATION: SEE SECTION 5

LD50 INGESTION: SEE SECTION 5

FISH, LC50 (LETHAL CONCENTRATION): UNKNOWN

CLASSIFICATION: (POISON, IRRITANT, ETC.)

INHALATION: IRRITANT

SKIN: SEE SECTION 5

SKIN/EYE: CORROSIVE

INGESTION: CORROSIVE

AQUATIC: UNKNOWN

SECTION 5 * EFFECTS OF OVEREXPOSURE

THIS SECTION COVERS EFFECTS OF OVEREXPOSURE FOR INHALATION, EYE/SKIN CONTACT, INGESTION AND OTHER TYPES OF OVEREXPOSURE INFORMATION IN THE ORDER OF THE MOST HAZARDOUS AND THE MOST LIKELY ROUTE OF OVEREXPOSURE.

IS CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?

NTP - NO IARC - NO OSHA - NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

NONE KNOWN

*** 24-HOUR EMERGENCY ASSISTANCE: (304) 843-1300 ***

**PERMISSIBLE EXPOSURE LIMITS:**

OSHA: 2 MG/CU.M., CEILING; 29 CFR 1910.1000 (REV. 3/1/89).

ACUTE:

EYE CONTACT: CAUSES SEVERE BURNS; SMALL QUANTITIES CAN RESULT IN PERMANENT DAMAGE AND/OR LOSS OF VISION.

SKIN CONTACT: CORROSIVE ACTION CAUSES BURNS AND FREQUENTLY DEEP ULCERATION WITH SUBSEQUENT SCARRING. PROLONGED CONTACT DESTROYS TISSUE. MIST FROM SOLUTIONS CAN CAUSE IRRITANT DERMATITIS.

INGESTION: INGESTION CAN CAUSE VERY SERIOUS DAMAGE TO THE MOUTH, ESOPHAGUS, STOMACH, AND OTHER TISSUES WITH WHICH CONTACT IS MADE AND MAY BE FATAL.

INHALATION: INHALATION OF MISTS CAN CAUSE DAMAGE TO THE UPPER RESPIRATORY TRACT AND TO THE LUNG TISSUE DEPENDING ON EXTENT OF EXPOSURE. EFFECTS CAN RANGE FROM MILD IRRITATION OF MUCOUS MEMBRANES, SEVERE PNEUMONITIS, AND DESTRUCTION OF LUNG TISSUES.

CHRONIC:

THE EFFECTS OF LONG-TERM, LOW-LEVEL EXPOSURES TO THIS PRODUCT HAVE NOT BEEN DETERMINED. SAFE HANDLING OF THIS MATERIAL ON A LONG-TERM BASIS SHOULD EMPHASIZE THE AVOIDANCE OF ALL EFFECTS FROM REPETITIVE ACUTE EXPOSURES.

*** EMERGENCY AND FIRST AID PROCEDURES****INHALATION:**

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

EYE OR SKIN CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN DURING THIS FLUSHING WITH WATER. CALL A PHYSICIAN. IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER WHILE REMOVING CONTAMINATED CLOTHING AND BOOTS. CALL A PHYSICIAN. IF SKIN FEELS SLIPPERY, CAUSTIC MAY STILL BE PRESENT IN SUFFICIENT QUANTITIES TO CAUSE RASH OR BURN. CONTINUE WASHING UNTIL SLICK SKIN FEELING IS GONE. THOROUGHLY CLEAN CONTAMINATED CLOTHING AND BOOTS BEFORE REUSE OR DISCARD.

*** * * 24-HOUR EMERGENCY ASSISTANCE: (304) 843-1300 * * ***

**INGESTION:**

IF CONSCIOUS, DRINK LARGE QUANTITIES OF WATER OR ACIDIC BEVERAGE (TOMATO OR ORANGE JUICE, CARBONATED SOFT DRINKS). DO NOT INDUCE VOMITING. TAKE IMMEDIATELY TO A HOSPITAL OR PHYSICIAN. IF VOMITING OCCURS, ADMINISTER ADDITIONAL WATER. IF UNCONSCIOUS OR IN CONVULSIONS, TAKE IMMEDIATELY TO A HOSPITAL. DO NOT ATTEMPT TO INDUCE VOMITING OR GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIAN (INCLUDING ANTIDOTES):

TREAT SYMPTOMATICALLY.

SECTION 6 * REACTIVITY DATA**STABILITY: STABLE**

CONDITIONS TO AVOID: MATERIALS LISTED BELOW.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID):

ORGANIC MATERIALS AND CONCENTRATED ACIDS, MAGNESIUM, ALUMINUM, ZINC (GALVANIZED), TIN, CHROMIUM, BRASS AND BRONZE, AND VARIOUS FOOD SUGAR.

HAZARDOUS DECOMPOSITION PRODUCTS:

REACTION WITH VARIOUS FOOD SUGARS MAY FORM CARBON MONOXIDE.

SECTION 7 * SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:**

DIKE AREA TO CONTAIN SPILL. ONLY TRAINED PERSONNEL EQUIPPED WITH NIOSH/MSHA APPROVED, FULL FACEPIECE COMBINATION DUST/MIST AND ACID GAS RESPIRATORS SHOULD BE PERMITTED IN THIS AREA. RECLAIM SPILLED MATERIAL IF POSSIBLE. OR, DILUTE MATERIAL WITH A LARGE QUANTITY OF WATER, THEN NEUTRALIZE WITH DILUTE ACID. PROPERLY NEUTRALIZED LIQUID RESIDUES (PH 6-9) MAY BE DISPOSED OF IN WASTE WATER TREATMENT FACILITIES WHICH ALLOW THE DISCHARGE OF NEUTRAL SALT SOLUTIONS. NEUTRALIZED MATERIAL CAN BE RECOVERED BY VACUUM TRUCK FOR DISPOSAL (SEE BELOW). AFTER ALL VISIBLE TRACES HAVE BEEN REMOVED, FLUSH AREA WITH LARGE AMOUNTS OF WATER.

WASTE DISPOSAL METHOD:

PPG RECOMMENDS DISPOSAL OF NEUTRALIZED MATERIAL IN AN APPROVED HAZARDOUS WASTE MANAGEMENT FACILITY. CARE MUST BE TAKEN WHEN USING OR DISPOSING OF CHEMICAL MATERIALS AND/OR THEIR CONTAINERS TO PREVENT ENVIRONMENTAL CONTAMINATION. IT IS YOUR DUTY TO DISPOSE OF THE CHEMICAL MATERIALS AND/OR

* * * 24-HOUR EMERGENCY ASSISTANCE: (304) 543-1300 * * *

Material Safety Data Sheet



THEIR CONTAINERS IN ACCORDANCE WITH THE CLEAN AIR ACT, THE CLEAN WATER ACT, THE RESOURCE CONSERVATION AND RECOVERY ACT, AS WELL AS ANY OTHER RELEVANT FEDERAL, STATE, OR LOCAL LAWS/REGULATIONS REGARDING DISPOSAL.

SECTION 8 * SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

USE NIOSH/MSHA-APPROVED DUST/MIST FILTER RESPIRATOR FOR ROUTINE WORK PURPOSES WHEN EXPOSURE TO MISTS EXCEED THE PERMISSIBLE EXPOSURE LIMITS. THE RESPIRATOR USE LIMITATIONS MADE BY NIOSH/MSHA OR THE MANUFACTURER MUST BE OBSERVED. RESPIRATORY PROTECTION PROGRAMS MUST MEET THE REQUIREMENTS OF 29 CFR 1910.134.

VENTILATION(TYPE):

LOCAL EXHAUST SUFFICIENT TO MINIMIZE EMPLOYEE EXPOSURE TO MIST BELOW PERMISSIBLE EXPOSURE LIMITS.

EYE PROTECTION:

CLOSE FITTING CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

GLOVES:

NITRILE, NEOPRENE OR PVC

OTHER PROTECTIVE EQUIPMENT:

RUBBER BOOTS WITH SAFETY TOES, RUBBER APRONS, PVC CLOTHING, PLASTIC HARD HAT SHOULD BE USED WHEN NECESSARY TO PREVENT SKIN CONTACT. PERSONAL PROTECTIVE CLOTHING AND USE OF EQUIPMENT MUST BE IN ACCORDANCE WITH 29 CFR 1910.132 AND 29 CFR 1910.133.

SECTION 9 * SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING:

- * WHEN HANDLING, WEAR SAFETY GOGGLES AND FACE SHIELD, RUBBER GLOVES, RUBBER BOOTS, RUBBER APRON, COTTON OR POLYESTER LONG-SLEEVED SHIRT AND PLASTIC HARD HAT.
- * WEAR NIOSH/MSHA APPROVED RESPIRATOR FOR PROTECTION WHERE MISTS MAY BE GENERATED.
- * NEVER TOUCH EYES OR FACE WITH HANDS OR GLOVES THAT MAY BE CONTAMINATED WITH CAUSTIC SODA.
- * NEVER ENTER A CAUSTIC SODA STORAGE TANK OR CONTAINER (TANK TRUCK OR TANK CAR)--EVEN IF IT APPEARS TO BE EMPTY.
- * AVOID CONTACT WITH ORGANIC MATERIALS AND CONCENTRATED ACIDS--MAY CAUSE VIOLENT REACTION; CAUSTIC SODA REACTS WITH MAGNESIUM, ALUMINUM, ZINC (GALVANIZED), TIN, CHROMIUM, BRASS AND BRONZE, GENERATING HYDROGEN WHICH

* * * 24-HOUR EMERGENCY ASSISTANCE: (304) 843-1300 * * *



* * LIQUID CAUSTIC SODA, 50%

- IS EXPLOSIVE.
- * HAZARDOUS CARBON MONOXIDE GAS CAN FORM UPON CONTACT WITH FOOD AND BEVERAGE PRODUCT IN ENCLOSED VESSELS AND CAN CAUSE DEATH. FOLLOW APPROPRIATE TANK ENTRY PROCEDURES (SEE ANSI Z177.1-1977).
 - * WHEN DILUTING, ADD 50% LIQUID CAUSTIC SODA SLOWLY TO SURFACE OF COLD WATER TO AVOID VIOLENT ERUPTION.
 - * LIQUID CAUSTIC SODA IS SHIPPED HOT (100-180 F). AVOID SKIN CONTACT-- CAN CAUSE THERMAL BURNS.

OTHER PRECAUTIONS:

- * DO NOT GET IN EYES, ON SKIN, ON CLOTHING. CAN CAUSE SEVERE INJURY OR BLINDNESS.
- * DO NOT BREATHE MIST.
- * DO NOT SWALLOW.
- * WASH THOROUGHLY AFTER HANDLING.
- * DO NOT EAT, DRINK, OR SMOKE IN WORK AREA.

COMMENTS:

TSCA - SODIUM HYDROXIDE IS ON THE TSCA INVENTORY UNDER CAS #1310-73-2.

SARA TITLE III - A) 311/312 CATEGORIES - ACUTE AND REACTIVITY, B) NOT LISTED IN SECTION 313, C) NOT LISTED AS AN "EXTREMELY HAZARDOUS SUBSTANCE" IN SECTION 302.

CERCLA - LISTED IN TABLE 302.4 OF 40 CFR PART 302 AS A HAZARDOUS SUBSTANCE WITH A REPORTABLE QUANTITY OF 1000 POUNDS. RELEASES TO AIR, LAND OR WATER WHICH EXCEED THE RQ MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

CANADA WHMIS - SENSITIZATION TO PRODUCT: NONE KNOWN, REPRODUCTIVE TOXICITY: NONE KNOWN, PRODUCT USES: NEUTRALIZATION, CHEMICAL PROCESSING.

R. KENNETH LEE
MANAGER, PRODUCT SAFETY

*** 24-HOUR EMERGENCY ASSISTANCE: (304) 843-1300 ***

Liquid Caustic Soda

Handling Spills or Leaks—Reclaim spilled material if possible or dilute material with large quantity of water then neutralize with dilute acid. After all visible traces have been removed, flush area with large amount of water. For details, refer to MSDS #20B or 20B-1.

Packaging and Shipping

PPG Industries ships liquid caustic soda in tank cars, with nominal capacities of 10 and 18 thousand gallons, as well as in tank trucks, barges and ocean going tankers.

Shipping Points

Tank Cars and Tank Trucks

California	Richmond
	San Pedro
Illinois	Lemont (Chicago)
Louisiana	Lake Charles
Missouri	St. Louis
New Jersey	Bayonne (trucks only)
	Paulsboro
West Virginia	Natrium
Canada	Beauharnois, Quebec

Barges

Louisiana	Lake Charles
West Virginia	Natrium

Ocean-going Tankers

Louisiana	Lake Charles
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Samples and Service

Samples of liquid caustic soda are available on request in various sizes to meet customer requirements.

PPG Industries' technical service engineers are available for consulting on handling, storage and use.

Call (800) CHEM PPG (800 243-6774).

In Canada, contact the technical service staff of PPG Canada Inc., P.O. Box 2010, Beauharnois, Quebec J6N 3C3 Canada, (514) 429-4641.

Typical Properties

Chemical Names	Sodium hydroxide, caustic soda
Chemical Formula	NaOH
Molecular Weight	40.008
Description	Caustic soda solutions are colorless and strongly alkaline. They are not combustible and do not support combustion.

Properties of Caustic Soda Solutions

	50% Solution	78% Solution
Alkali Equivalent, % Na ₂ O	38.74	56.56
Melting Range (crystallization begins)	5 to 11°C 41 to 51°F	60 to 82°C 140 to 143°F
Solidification Point	6°C 41°F	60°C 140°F
Boiling Point	142°C 288°F	189°C 371°F
Specific Gravity	(60/60°F) 1.530	(212/60°F) 1.70

The properties of caustic soda solutions are presented in the PPG manual *Caustic Soda*, available on request.



PPG barge dedicated to shipping caustic soda.



PPG Industries, Inc.
One PPG Place
Pittsburgh, PA 15272

PPG Canada, Inc.
P.O. Box 2010
Beauharnois, Quebec
J6N 3C3, Canada

Statements and methods presented are based upon the best available information and practices known to PPG Industries at present, but are not representations or warranties of performance, result or comparative use, nor do they imply any recommendations to infringe any patent or an offer of license under any patent.

The products mentioned herein can be hazardous if not used properly. Any health hazard and safety information contained herein should be passed on to your customers or employees, as the case may be. PPG Industries also recommends that, before use, anyone using or handling this product thoroughly read and understand the information and precautions on the label, as well as in other product safety publications such as the Material Safety Data Sheet.

Like all potentially hazardous materials, this product must be kept out of the reach of children.

Material Safety Data Sheet

 **KERR-MCGEE CHEMICAL CORPORATION**
KERR-MCGEE CENTER ■ OKLAHOMA CITY OKLAHOMA 73125



boric acid

For more detailed information on the hazards of this product, contact Regulations Compliance Department or Medical Services Department at the address above. Technical Information Bulletin is also available. For emergency information, telephone (405) 270-1313 any time.

PRODUCT IDENTIFICATION

Brand Name **THREE ELEPHANT boric acid**
Chemical Name **Boric acid**
Common Name **Boric acid**
Formula **H₃BO₃**
DOT Proper
Shipping Name **Not applicable**
DOT Hazard
Class **Not applicable**
DOT I.D. Number **Not applicable**
Reportable Quantity (RQ) **Not applicable**
CAS Number **10043-35-3**

PHYSICAL AND CHEMICAL PROPERTIES

State **Granular/Powder solid**
Melting Point C **171**
Boiling Point C **Not applicable**
Color **White**
Odor **None**
Bulk Density, lb/cu. ft **30 to 70**
Weight Per Gallon **Not applicable**
Specific Gravity @ 20C **1.4**
Water Solubility, % by wt. @ 20C .. **4.6**
Flash Point And Method **Not applicable**
pH **Not applicable**

HAZARDOUS INGREDIENTS

Chemical Name	Common Name	CAS Number	Hazard
Boric acid	Boric acid	10043-35-3	Irritant to eyes, nose, throat and lungs. Toxic if swallowed. Long-term effects may include reproductive and fetal abnormalities.

PHYSICAL HAZARD INFORMATION

Explosive: No Upper Explosive Limit: Not applicable Lower Explosive Limit: Not applicable

Pyrophoric: No

Flammable: No Flammability Class: Not applicable

Combustible: No Organic Peroxide: No

Oxidizer: No Compressed Gas: No

Reactivity: Stable under normal and expected conditions. Loses water when heated above 100C.

Incompatibilities: Potassium, acetic anhydride and heat sources.

Hazardous None.

Decomposition:

Conditions Mixing with incompatible materials and heat.

To Avoid:

 HEALTH INFORMATION

Precautionary information: CAUTION! May cause irritation. Harmful if swallowed or absorbed through damaged skin. Studies in animals show daily ingestion of large amounts of boric acid causes effects on the male reproductive system (testicular atrophy, reduced sperm production, and sterility) and fetal developmental effects (organ and skeletal abnormalities).

Symptoms Of Exposure: Eye irritation, mucous membrane irritation, respiratory irritation, dry skin, weakness, abdominal pain, vomiting and diarrhea.

Restrictive Medical Conditions: Kidney, liver diseases and nerve disorders may be aggravated by exposure to this material.

 PRIMARY ROUTE(S) OF ENTRY

Ingestion (swallowing), eyes, damaged skin and inhalation (breathing).

 TOXICITY INFORMATION

Skin-human 15 mg/3 days, mild irritation; Ori-woman LDLo 200 mg/kg; ori-infant LDLo 934 mg/kg; skin-infant LDLo 1200 mg/kg; skin-child LDLo 4000 mg/kg/4D; skin-man LDLo 2430 mg/kg; skin-child LDLo 1500 mg/kg; subcutaneous-infant LDLo 1100 mg/kg; unk-man TDLo 170 mg/kg; unk-man LDLo 147 mg/kg; ori-rat LD₅₀ 2660 mg/kg; scu-rat LD₅₀ 1400 mg/kg, • ivn-rat LD₅₀ 1300 mg/kg, ori-mouse LD₅₀ 3450 mg/kg; scu-mouse LD₅₀ 1740 mg/kg; ivn-mouse LD₅₀ 1780 mg/kg; ori-sprague • Dawley rats LD₅₀ 3450 mg/kg males, 4080 mg/kg females; ori-Long • Evans rats LD₅₀ 3160 mg/kg males; Reproductive system effects, including testicular atrophy, reduced sperm count and sterility have occurred in mice, rats and dogs at daily feeding levels of 45 mg/kg of body weight of boron equivalents. Mutagenic effects have been noted in bacteria exposed to 17,000 ppm/24 hours. Abnormalities (fused skeletons, organ variations and non-viable fetuses) have been seen in fetuses of rabbits given doses by stomach tube of 75 mg/kg and 225 mg/kg daily during the 7th and 19th day of gestation. No fetal effects were seen at a dose of 25 mg/kg.

 EXPOSURE LIMITS

OSHA: Not established.

ACGIH: Not established.

Other: ACGH Nuisance dust TLV-TWA is 10 mg/m³ total dust or 5 mg/m³ respirable dust.

Reported As A Potential Carcinogen
Or Carcinogen

Not Applicable
 OSHA

National Toxicology Program
 International Agency For Research On Cancer

PRECAUTIONS FOR SAFE HANDLING AND USE

Do not ingest (swallow) material
Avoid contact with eyes.
Avoid breathing dust.
Use with adequate ventilation.
Keep container closed.
Wash thoroughly after handling.

SPILL AND LEAK PROCEDURES

Soil Release: Shovel or sweep up into a container and reclaim for salvage value or dispose of in accordance with federal, state and local regulations. If permitted, wash to an industrial sewer.

Water Spill: Collect by suction or dredge and dispose of as under Soil Release above.

Air Spill: Allow dust to settle, collect and dispose of as above for Soil Release.

Occupational Spill: Shovel or sweep up and dispose of as above for Soil Release.

RCRA Waste Number: Not applicable.

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: Use local exhaust and general ventilation techniques. Personnel must use a personal respirator if dust concentration exceeds exposure limit.

Respirator: Use NIOSH/MSHA approved dust and mist respirator if dust concentration exceeds exposure limit and up to 50 mg/m³.

Eye Protection: Safety glasses or vented safety goggles.

Gloves: Ordinary work gloves.

Clothing: Wear easily washable clothing. Change daily. Wash clothing before reuse.

EMERGENCY PROCEDURES

Fire: Boric acid is not flammable and does not support combustion.
Use fire fighting media suitable for surrounding fire.

Spill or Leak: Shovel, or sweep up and place in container for later disposal.

FIRST AID PROCEDURES

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouthh-to-mouth. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Flush skin with water and then wash thoroughly with soap or mild detergent and water.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Note To Physician: Chemical of exposure is boric acid.

DATE OF ISSUE: October, 1990

DATE REVISED: October, 1990

REPLACES: February, 1990



MATERIAL SAFETY DATA SHEET

Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

IDENTITY (As used on Label and List)

NOSLIP 111

SECTION I

Manufacturer's Name KEY TECH CORP.	Emergency Telephone Number (206) 883-8200
Address (Street, City, State, & Zip Code) P.O. Box 2949	Telephone Number for Information (206) 883-8200
Redmond, WA 98073-2949	Date Prepared August 1, 1986

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits
Alumina (as inert dust)	50 MPPCF	20 MPPCF	NONE

No Hazardous Labeling Required. No Exposure Anticipated Under Normal Conditions or in a Foreseeable Emergency

SECTION III - Physical/Chemical Characteristics

Boiling Point 217 degree F.	Specific Gravity (H2O = 1) 1.2
Vapor Pressure (mm Hg.) N/A	Melting Point N/A
Vapor Density (AIR = 1) N/A	Evaporation Rate (H2O = 1) 1
Solubility in Water Infinite	pH 4
Appearance and Odor Opaque white liquid, slight odor	

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method used) None (Nonflammable)	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			

MATERIAL SAFETY DATA SHEET

L-4559-E
April 1987



An explanation of the terms used herein may be found in OSHA 29 CFR 1910.1200, available from OSHA regional or area offices.
(Similar to U.S. Department of Labor Form OMB No. 1218-0072 and generally accepted in Canada for information purposes)
Do Not Duplicate This Form. Request an Original.



I. PRODUCT IDENTIFICATION

PRODUCT	Acetylene		
CHEMICAL NAME	Acetylene	SYNONYMS	Acetylen, Ethine, Ethyne, Narcylene
FORMULA	C ₂ H ₂	CHEMICAL FAMILY	Alkyne
		MOLECULAR WEIGHT	26.038

TRADE NAME Acetylene (This product is intended for welding and cutting use.)

II. HAZARDOUS INGREDIENTS

This section covers the materials from which this product is manufactured. The fumes and gases produced during welding and cutting with the normal use of this product are covered by Section VI. The term "hazardous" should be interpreted as a term required and defined in OSHA 29 CFR 1910.1200 and does not necessarily imply the existence of any hazard.

MATERIAL (CAS NO.)	Vol (%)	1986-1987 ACGIH TLV-TWA (OSHA-PEL)	
Acetylene (74-86-2)	100	Simple asphyxiant	(None currently established)
		Acetylene cylinders are filled with a porous material containing acetone into which the acetylene is dissolved. ACGIH has established a TLV-TWA of 750 ppm for acetone and a STEL of 1000 ppm.	

III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	Not Applicable	SUBLIMATION POINT	-84°C (-119.2°F) @ 760mm Hg
SPECIFIC GRAVITY (H₂O = 1)	Not Applicable	VAPOR PRESSURE AT 21°C.	635 psig
VAPOR DENSITY (air = 1)	0.91	SOLUBILITY IN WATER, % by wt.	Slight
PERCENT VOLATILES BY VOLUME	100	EVAPORATION RATE (Butyl Acetate = 1)	Not Applicable

APPEARANCE AND ODOR Colorless gas at normal temperature and pressure; garlic-like odor.

EMERGENCY RESPONSE INFORMATION

IN CASE OF EMERGENCIES involving this material, further information is available at all times:
In the USA 1-800-UCC-HELP (1-800-822-4357) In Canada 514-640-6400
For routine information contact your local supplier

Union Carbide requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for the product, and (3) request such customers to notify their employees and customers for the product of the same product hazards and safety information.

UNION CARBIDE CORPORATION LINDE DIVISION
UNION CARBIDE CANADA LIMITED LINDE DIVISION

L-4559-E

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: Acetylene - Simple asphyxiant ACGIH 1986-87; Acetone, 750ppm ACGIH 1986-87

EFFECTS OF SINGLE (ACUTE) OVEREXPOSURE

SWALLOWING — An unlikely route of exposure, but frostbite of the lips and mouth may result from contact with the liquid. If the liquid is swallowed, may cause nausea.

SKIN ABSORPTION — No evidence of adverse effects from available information.

INHALATION — Asphyxiant. Moderate concentrations of vapor may cause headache, drowsiness, dizziness, nausea, vomiting, excitation, excess salivation, and unconsciousness.

SKIN CONTACT — No harmful effects expected from vapor. Liquid may cause frostbite.

EYE CONTACT — Vapor may cause irritation. Liquid may cause irritation and frostbite.

EFFECTS OF REPEATED (CHRONIC) OVEREXPOSURE: No evidence of adverse effects from available information.

OTHER EFFECTS OF OVEREXPOSURE: None currently known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: A knowledge of the available toxicology information and of the physical and chemical properties of the material suggest that overexposure is unlikely to aggravate existing medical conditions.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING — If liquid is swallowed, do not induce vomiting. Call a physician.

SKIN — For exposure to liquid, flush with water and warm frostbite area with warm water (not to exceed 105°F). In case of massive exposure, remove clothing while showering with warm water. Call a physician.

INHALATION — Remove to fresh air. If breathing has stopped, give artificial respiration; if breathing is difficult, oxygen may be given; call a physician.

EYES — In case of splash contamination, immediately flush eyes thoroughly with water for at least 15 minutes. Seek the advice of a physician, preferably an ophthalmologist, urgently.

NOTES TO PHYSICIAN: Aspirated acetone may cause severe lung damage. If a large quantity of material has been swallowed, stomach contents should be evacuated quickly in a manner which avoids aspiration. Otherwise, treatment should be directed at the control of symptoms and the clinical condition. No specific antidote is known.

WORKING WITH WELDING AND CUTTING MAY CREATE ADDITIONAL HEALTH HAZARDS.

FUMES AND GASES can be dangerous to your health and may cause serious lung disease.*

Keep your head out of the fumes. Do not breathe fumes and gases caused by the process. Use enough ventilation, local exhaust, or both to keep fumes and gases from your breathing zone and the general area. The type and amount of fumes and gases depend on the equipment and supplies used. Possibly dangerous materials may be found in fluxes, coatings, gases, metals etc. Get a Material Safety Data Sheet (MSDS) for every material used. Air samples can be used to find out what respiratory protection is needed.

Short term overexposure to fumes may result in discomfort such as dizziness, nausea, or dryness or irritation of nose, throat, or eyes.

***NOTES TO PHYSICIAN:**

Acute — Gases, fumes, and dusts may cause irritation to the eyes, lungs, nose, and throat. Some toxic gases associated with welding and related processes may cause pulmonary edema, asphyxiation, and death. Acute overexposure may include signs and symptoms such as watery eyes, nose and throat irritation, headache, dizziness, difficulty breathing, frequent coughing, or chest pains.

Chronic — Protracted inhalation of air contaminants may lead to their accumulation in the lungs, a condition which may be seen as dense areas on chest x-rays. The severity of change is proportional to the length of exposure. The changes seen are not necessarily associated with symptoms or signs of reduced lung function or disease. In addition, the changes on x-rays may be caused by non-work related factors such as smoking, etc.

A detailed description of the Health Hazards and their consequences may be found in Linde's free publication "Precautions and Safe Practices for Electric Welding and Cutting," L52-529. You may obtain copies from your local supplier, or by writing to Union Carbide Corporation, Linde Division, Communications Department, 39 Old Ridgebury Road, Danbury, Connecticut, 06817-0001.

MIXTURES: When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist, or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

MATERIAL SAFETY DATA SHEET

L-4638-A
September 1985



An explanation of the terms used herein may be found in OSHA 29 CFR 1910.1200,
available from OSHA regional or area offices.
(Essentially similar to U.S. Department of Labor Form OSHA-20
and generally accepted in Canada for information purposes)
Do Not Duplicate This Form. Request an Original.



I. PRODUCT IDENTIFICATION

PRODUCT	Oxygen	SYNONYMS	Not applicable
CHEMICAL NAME	Oxygen	CHEMICAL FAMILY	Not applicable
FORMULA	O ₂	MOLECULAR WEIGHT	32.00
TRADE NAME	Oxygen		

II. HAZARDOUS INGREDIENTS

For mixtures of this product request the respective component Material Safety Data Sheets. See Section IX.

MATERIAL (CAS NO.)	Wt (%)	1984-1985 ACGIH TLV-TWA (OSHA-PEL)
Oxygen (7782-44-7)	100	None currently established (None currently established)

III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	-183°C (-297.4°F)	FREEZING POINT	-218.4°C (-361.1°F)
SPECIFIC GRAVITY (H ₂ O = 1)	Gas	VAPOR PRESSURE AT 20°C.	Gas
VAPOR DENSITY (air = 1)	1.105 @ 25°C	SOLUBILITY IN WATER, % by wt.	Negligible
PERCENT VOLATILES BY VOLUME	100	EVAPORATION RATE (Butyl Acetate = 1)	Not applicable

APPEARANCE AND ODOR Colorless, odorless gas at normal temperature and pressure.

EMERGENCY PHONE NUMBER

IN CASE OF EMERGENCIES involving this material, further information is available at all times:

In the USA 304 — 744-3487

In Canada 514 — 645-5311

For routine information contact your local supplier

Union Carbide requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for the product, and (3) request such customers to notify their employees and customers for the product of the same product hazards and safety information.

UNION CARBIDE CORPORATION LINDE DIVISION
UNION CARBIDE CANADA LIMITED LINDE DIVISION

IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: None currently established.

EFFECTS OF SINGLE (ACUTE) OVEREXPOSURE:

SWALLOWING — No evidence of adverse effects from available information.

SKIN ABSORPTION — No evidence of adverse effects from available information.

INHALATION — Breathing 80% or more oxygen at atmospheric pressure for more than a few hours may cause nasal stuffiness, cough, sore throat, chest pain and breathing difficulty. Breathing oxygen at higher pressure increases the likelihood of adverse effects within a shorter time period. Breathing pure oxygen under pressure may cause lung damage and also central nervous system effects resulting in dizziness, poor coordination, tingling sensation, visual and hearing disturbances, muscular twitching, unconsciousness and convulsions. Breathing oxygen under pressure may cause prolongation of adaptation to darkness and reduced peripheral vision.

SKIN CONTACT — No evidence of adverse effects from available information.

EYE CONTACT — No evidence of adverse effects from available information.

EFFECTS OF REPEATED (CHRONIC) OVEREXPOSURE: No evidence of adverse effects from available information.

OTHER EFFECTS OF OVEREXPOSURE: See "Notes to Physician."

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: See "Notes to Physician."

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION: None currently known.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING — This product is a gas at normal temperature and pressure.

SKIN — No emergency care anticipated.

INHALATION — Remove to fresh air. Give artificial respiration if not breathing. Keep victim warm and at rest. Call a physician.

EYES — No emergency care anticipated.

NOTES TO PHYSICIAN: Supportive treatment should include immediate sedation, anti-convulsive therapy if needed, and rest. Animal studies suggest that the administration of certain drugs, including phenothiazine drugs and chloroquine, increases the susceptibility to toxicity from oxygen at high concentrations or pressures. Animal studies also indicate that vitamin E deficiency may increase susceptibility to oxygen toxicity.

Airway obstruction during high oxygen tension may cause alveolar collapse following absorption of the oxygen. Similarly, occlusion of the eustachian tubes may cause retraction of the eardrum and obstruction of the paranasal sinuses may produce "vacuum-type" headache.

Newborn premature infants exposed to high oxygen concentrations may suffer delayed retinal damage which can progress to retinal detachment and blindness (retrolental fibroplasia). Retinal damage can also occur in adults exposed to 100% oxygen under greater than atmospheric pressure, particularly in individuals whose retinal circulation has been previously compromised.

All individuals exposed for long periods to oxygen at high pressure and all who exhibit overt oxygen toxicity should have ophthalmologic examinations.

WHEN USED IN WELDING AND CUTTING: Read and understand the manufacturer's instructions and the precautionary label on the product. See American Standard Z49.1 "Safety in Welding and Cutting" published by the American Welding Society, P.O. Box 351040, Miami, Florida 33135 and OSHA Publication 2206 (29CFR1910), U.S. Government Printing Office, Washington, D.C. 20402 for more detail. For further SAFETY AND HEALTH information, refer to Linde's free publication, L-52-529, "Precautions and Safe Practices for Electric Welding and Cutting", as well as L-2035, "Precautions and Safe Practices for Gas Welding, Cutting, and Heating." You may obtain copies from your local supplier, or by writing to Union Carbide Corporation, Linde Division, Communications Department, 39 Old Ridgebury Road, Danbury, Connecticut, 06817-0001.

NOTE: Suitability for use as a component in underwater breathing gas mixtures is to be determined by or under the supervision of personnel experienced in the use of underwater breathing gas mixtures and familiar with the effects, methods, frequency and duration of use, hazards, side effects and precautions to be taken.

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	Not applicable	AUTOIGNITION TEMPERATURE	Not applicable
FLAMMABLE LIMITS IN AIR, % by volume	LOWER Not applicable	UPPER Not applicable	

EXTINGUISHING MEDIA: Vigorously accelerates combustion. Use media appropriate for surrounding fire. Water (i.e. safety shower) is the preferred extinguishing media for clothing fires.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate all personnel from danger area. Immediately cool containers with water spray from maximum distance until cool, then move containers away from fire area if without risk.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxidizing agent, vigorously accelerates combustion. Contact with flammable materials may cause fire or explosion. Container may rupture due to heat of fire. No part of a container should be subjected to a temperature higher than 52°C (approximately 125°F). Most containers are provided with a pressure relief device designed to vent contents when they are exposed to elevated temperature. Smoking, flames and electric sparks in the presence of enriched oxygen atmospheres are potential explosion hazards.

VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID: See Section IX.
UNSTABLE	STABLE	
	X	

INCOMPATIBILITY (materials to avoid): Combustible materials, asphalt, flammable materials, especially oils and greases.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID: None currently known.
May Occur	Will not Occur	
	X	

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Shut off leak if without risk. Ventilate area of leak or move leaking container to well-ventilated area. Remove all flammable materials from vicinity. Oxygen must never be permitted to strike an oily surface, greasy clothes, or other combustible material.

WASTE DISPOSAL METHOD: Slowly release into atmosphere, in an open, outdoors area. Remove all flammable materials from vicinity.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type): Not required.

VENTILATION	LOCAL EXHAUST — Not applicable.
	MECHANICAL (general) — Acceptable.
	SPECIAL — Not applicable.
	OTHER — Not applicable.

PROTECTIVE GLOVES: Preferred for cylinder handling.

EYE PROTECTION: Select in accordance with OSHA 29 CFR 1910.133.

OTHER PROTECTIVE EQUIPMENT: Metatarsal shoes for cylinder handling. Select in accordance with OSHA 29 CFR 1910.132 and 1910.133.

IX. SPECIAL PRECAUTIONS

WARNING: High pressure gas. Vigorously accelerates combustion. Avoid contact with oils, greases and other flammable materials. Never use manifolds for oxygen cylinders unless specifically designed for such use. Use only with equipment conditioned for oxygen service. Use piping and equipment adequately designed to withstand pressures to be encountered. Protect container against physical damage. Isolate from combustible gas installations and combustible materials by adequate distance or by gas-tight, fire-resistive barriers. Protect against over-heating. Never use an oxygen jet for cleaning purposes of any sort, especially clothing, as it increases the likelihood of an engulfing fire. Note: Reverse flow into cylinder may cause rupture. Use a check valve or other protective apparatus in any line or piping from the cylinder to prevent reverse flow.

MIXTURES: When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist, or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death. Be sure to read and understand all labels and other instructions supplied with all containers of this product.

NOTE: Compatibility with plastics should be confirmed prior to use. For safety information on general handling of compressed gas cylinders, obtain a copy of pamphlet P-1, "Safe Handling of Compressed Gases in Containers" from the Compressed Gas Association, Inc., 1235 Jefferson Davis Highway, Arlington, VA 22202.

OTHER HANDLING AND STORAGE CONDITIONS: Never work on a pressurized system. If there is a leak, close the cylinder valve, blow down the system by venting to a safe place, then repair the leak. Never lubricate oxygen valves, regulators, etc., with any combustible substance.

The opinions expressed herein are those of qualified experts within Union Carbide. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Union Carbide, it is the user's obligation to determine the conditions of safe use of the product.



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Other offices in principal cities all over the world.

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (test method)	-17.8°C (0°F) T.C.C.	AUTOIGNITION TEMPERATURE	299°C (571°F)
FLAMMABLE LIMITS IN AIR, % by volume	LOWER 2.3%	UPPER	100%

EXTINGUISHING MEDIA

See paragraphs below.

SPECIAL FIRE FIGHTING PROCEDURES

Refer to CGA pamphlet SB-4, "Handling Acetylene Cylinders in Fire Situations."

Evacuate all personnel from danger area. Immediately cool containers with water spray from maximum distance taking care not to extinguish flames. Remove ignition sources if without risk. If flames are accidentally extinguished, explosive re-ignition may occur. Use self-contained breathing apparatus. Stop flow of gas if without risk while continuing cooling water spray. Remove all containers from area of fire if without risk. Allow fire to burn out. On-site fire brigades must comply with OSHA 29 CFR 1910.156.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Extremely flammable gas. Forms explosive mixtures with air and oxidizing agents. Container may rupture due to heat of fire. Do not extinguish flames due to possibility of explosive re-ignition. Flammable vapors may spread from leak. Explosive atmospheres may linger. Before entering area, especially confined areas, check atmosphere with approved explosion meter. No part of a container should be subjected to a temperature higher than 52°C (approximately 125°F). All containers are provided with a pressure relief device designed to vent contents when they are exposed to elevated temperature. Contact with copper, silver, or mercury or their alloys or halogens can cause explosion and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge or other ignition sources at locations distant from product handling point.

VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID
UNSTABLE	STABLE	
X		Stable as shipped. Avoid use at pressures above 15 psig.

INCOMPATIBILITY (materials to avoid)

Copper, silver, mercury or their alloys, oxidizing agents, acids, halogens, moisture.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or burning may produce CO/CO₂H₂. The welding and cutting process may form reaction products such as carbon monoxide and carbon dioxide. Other decomposition products of normal operation originate from the volatilization, reaction or oxidation of the material being worked.

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
May Occur	Will not Occur	
X		Elevated temperature and pressure and/or the presence of a catalyst.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Forms explosive mixtures with air (See Section V). Immediately evacuate all personnel from danger area. Use self-contained breathing apparatus where needed. Remove all sources of ignition if without risk. Reduce vapors with fog or fine water spray. Shut off leak if without risk. Ventilate area of leak or move leaking container to well-ventilated area. Flammable gas may spread from leak. Before entering area, especially confined areas, check atmosphere with appropriate device.

WASTE DISPOSAL METHOD: Prevent waste from contaminating surrounding environment. Keep personnel away. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with Federal, State and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type) — Use respirable fume respirator or air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select as per OSHA29 CFR1910.134.

VENTILATION	LOCAL EXHAUST — Use enough ventilation, local exhaust or both, to keep the fumes and gases below TLV's in the worker's breathing zone and the general area. Train the worker to keep his head out of the fumes.
	MECHANICAL (general) ALWAYS WORK WITH ENOUGH VENTILATION
	SPECIAL Not applicable
	OTHER Depends on specific use conditions, and location. Use adequate ventilation or personal respiratory protection. See Section IX and OSHA29 CFR1910.252.

PROTECTIVE GLOVES Welding gloves recommended

EYE PROTECTION — Wear goggles with filter lens selected as per ANSI Z49.1. Provide protective screens and goggles, if necessary, to protect others. Select as per OSHA29 CFR1910.133.

OTHER PROTECTIVE EQUIPMENT — As needed, wear hand, head, and body protection which help to prevent injury from radiation and sparks. See ANSI Z49.1. At a minimum this includes welder's gloves and protective goggles, and may include arm protectors, aprons, hats, shoulder protection, as well as substantial clothing. Train the worker not to touch live electrical parts.

IX. SPECIAL PRECAUTIONS

Fumes and gases cannot be classified simply. The composition and quantity of both are dependent upon the metal being worked, the process, procedure and electrodes used. Other conditions which also influence the composition and quantity of the fumes and gases to which workers may be exposed include: coatings on the metal being worked (such as paint, plating, or galvanizing), the number of workers and the volume of the work area, the quality and amount of ventilation, the position of the worker's head with respect to the fume plume, as well as the presence of contaminants in the atmosphere (such as chlorinated hydrocarbon vapors from cleaning and degreasing activities).

One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample from inside the worker's helmet if worn or in the worker's breathing zone. See ANSI/AWS F1.1, available from the American Welding Society, 550 N.W. Le Jeune Rd., Miami, FL 33126.

Read and understand the manufacturer's instructions and the precautionary label on the product. See American National Standard Z49.1, "Safety In Welding And Cutting" published by the American Welding Society and OSHA Publication 2206 (29CFR1910), U.S. Government Printing Office, Washington, D.C. 20402 for more details. For further safety and health information refer to Linde's free safety booklet L-2035.

OTHER HANDLING AND STORAGE CONDITIONS

Heat and sparks during use could be the source of ignition of combustible materials. Prevent fires. Refer to NFPA 51B "Cutting and Welding Processes" and NFPA 50 "Oxygen-Fuel Gas Systems." Use piping and equipment adequately designed to withstand pressures to be encountered. Gas can cause rapid suffocation due to oxygen deficiency. Store and use with adequate ventilation. Close valve when not in use and when empty. Never work on a pressurized system. Do not strike arc on cylinder. The defect produced by an arc burn could lead to cylinder rupture. Do not ground cylinder. Store in cool, dry, well ventilated area. Do not store near open flames. Electrical equipment should be explosion proof. Do not store with oxygen or other oxidizers. Protect cylinders from physical damage. Store cylinders in upright position secured to prevent falling over. Refer to CGA Pamphlets P-1 and G-1 for recommendations.

The opinions expressed herein are those of qualified experts within Union Carbide. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Union Carbide, it is the user's obligation to determine the conditions of safe use of the product.



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BUSINESS RESPONSE PLAN

WEYERHAEUSER PAPER COMPANY
PACKAGING DIVISION
ALAMEDA, CALIF.

91 MAR -4 AM 11:02

HAZARDOUS MATERIAL INVENTORY

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>COMMON NAME</u>	<u>MAXIMUM QUANTITY STORED AT ONE TIME</u>		<u>ANNUAL QUANTITY USED</u>		<u>WHERE STORED</u>
			<u>GALLONS</u>	<u>POUNDS</u>	<u>GALLONS</u>	<u>POUNDS</u>	
AMMONIA	766-44-17	WATER BASE INK		4,000		202,891	INK ROOM
BIPHENYL	9-25-24	DIESEL	12,000		58,325		DIESEL TANK
NAPATHALENE	91-203	DIESEL	12,000		58,325		DIESEL TANK
FORMALDEHYDE	50000	CASCO RESIN	3,500		28,000		OUTSIDE BOI ROOM
ARISTO WAX	N/A	WAX	45,000		360,000		WAX TANK
PROPANE	NOT LISTED	PROPANE	1,000		2,370,771		PROPANE TAN

6 months
73500 GALS
4,000 pounds