Antea USA, Inc.
205 SE Spokane Street, Suite 300
Portland, Oregon 97202 USA

MEMORANDUM

TO: Aaron Manley (Olympic Region Clean Air Agency)

FROM: Nolan Lewis (Antea Group)

DATE: 10/4/2023

SUBJECT: Supplemental Information for Shelton Mill Synthetic Minor Air Permitting

CC: James Venters, Brian Wamsley, Mike Caulk (Alta Forest Products)
Kevin McCarthy, Taryn Parsons (Antea Group)
Jennifer DeMay (ORCAA)

Antea®Group (Antea Group) is providing this memorandum and supplemental information to the Olympic Region Clean Air Agency (ORCAA) on behalf of Alta Forest Products, LLC (Alta) regarding a letter request by Aaron Manley for additional information, dated April 7, 2023. The letter from ORCAA requests information necessary to draft and issue a Synthetic Minor Source Permit for the Shelton Mill (Site) located at 780 West State Route 108, Shelton, Washington 98584 (**Figure 1**).

Subsequent to ORCAA sending the information request, meetings between ORCAA, Antea Group, and Alta identified two stain applicator emission units (EUs) not included in the New Source Applicant Review Draft 23NOC1587. These two EUs have been accounted for in the supplemental information provided as attachments to this memorandum. Additionally, since ORRCA's request and subsequent meetings, Alta and their staining product suppliers have reformulated staining products used at the Site to decrease, and in some cases eliminate, Volatile Organic Compounds (VOCs), Hazardous Air Pollutants (HAPs), or Toxic Air Pollutants (TAPs). The Safety Data Sheets (SDS) included as part of this memorandum (**Appendix A**), identify all products potentially used in stain applicators at the Site.

Potential to emit calculations for coating units presented as part of this memorandum represent current conditions at the Site (**Tables 1-7**). This memorandum therefore provides the most up to date facility wide coating units VOC/TAP/HAP information that addresses the components of ORCAA's request. Alta requests ORCAA make the appropriate revisions to New Source Applicant Review Source 23NOC1587 and subsequently issue a Synthetic Minor Permit for the Site. Alta understands and accepts that a facility wide Synthetic Minor Permit is limited to a facility wide annual VOC emission of no greater than 99 tons. ORCAA **Form 1A** is included to denote the reason a revision is necessary.

All stain applicator EUs located at the Site are shown on **Figure 2**. These EUs include currently permitted EU-1 and EU-2, as well as currently unpermitted EU-8, Transverse, and Coater 2 units. Attached are ORCAA **Form 8s** for each of the coaters. Included **Form 8s** identify specific stains used at each location. Stack locations (if

present) correspond to locations shown on **Figure 2**. EU-1 and EU-8 do not have stacks and any emissions are fugitive at those locations.

ORCAA requested Alta complete a Top-Down Best Available Control Technology (BACT) Analysis for the coating project (installation of EU-8). Antea Group completed the analysis, and it is included here as **Appendix B**.

The maximum capacity to emit calculations are based on physical and operational design limitations. Operational design limitations include a voluntary daily maximum use of Mycostat IV not to exceed 377 gallons. To establish the voluntary daily maximum limit of Mycostat IV, AERSCREEN modeling was performed (**Appendix C**). Potential to emit values for all other HAPs and TAPs were calculated below the applicable Small Quantity Emissions Rate (SQER) or modeled to emit below the applicable Acceptable Source Impact Level (ASIL). Modeling is presented as **Appendix C**. Attached ORCAA **Form 5s** list potential emission rates for HAPs and TAPs at each coating EU.

A facility wide VOC limit of 99 tons annually is accepted with the issuance of a Synthetic Minor Order. Facility wide consumption of VOC containing materials at the stain applicators will be monitored and recorded as necessary to comply with a Synthetic Minor Order. Future VOC emissions at the coating EUs is unknown, as it will be largely influenced by market demand. Alta is hopeful the market for coated fencing products will grow. Alta understands that any future increase in production and associated emissions may necessitate permit modification or possibly transitioning to a different permit classification.

Please contact me with questions or concerns.
nolan.lewis@anteagroup.us

ORCAA Forms
Responsible Official / Duly Authorized Representative Identification Form - Corporations
Form 1 – NOTICE OF CONSTRUCTION
Form 1D – CONTACT INFORMATION
Form 1A – REQUEST TO CHANGE NOC/NOI CONDITIONS OF APPROVAL
Form 4 – FACILITY EMISSIONS SUMMARY
Form 5 – EMISSIONS OF HAZARDOUS AIR POLLUTANTS (two forms, multiple emission units per form)
Form 6 – BACT ANALYSIS TABLE
Form 8 – SURFACE COATING (Aviation, Wood, Boat, Other) (one form per coating EU and supplemental information attachment)

Emission Calculation Tables
Table 1 – VOCs by Product
Table 2 – Applicable Hazardous Thresholds
Table 3 – Transverse Emissions Calculations
Table 4 – Coater 2 Emissions Calculations
Table 5 – EU2 Emissions Calculations
Table 6 – EU1 Emissions Calculations
Table 7 – EU8 Emissions Calculations

Figures
Figure 1 – Area Map
Figure 2 – Emission Source Location Map

Appendices
Appendix A – SDS Sheets
Appendix B – BACT Analysis
Appendix C – AERSCREEN Modeling

CONTACT INFORMATION

205 SE Spokane Street, Suite 300
Portland, OR 97202 USA

Toll Free +1 800 477 7411
International +1 651 639 9449

Aaron Manley
Olympic Region Clean Air Agency
October 4, 2023

ORCAA Forms

Responsible Official / Duly Authorized Representative Identification Form - Corporations

Form 1 – NOTICE OF CONSTRUCTION

Form 1D – CONTACT INFORMATION

Form 1A – REQUEST TO CHANGE NOC/NOI CONDITIONS OF APPROVAL

Form 4 – FACILITY EMISSIONS SUMMARY

Form 5 – EMISSIONS OF HAZARDOUS AIR POLLUTANTS (two forms, multiple emission units per form)

Form 6 – BACT ANALYSIS TABLE

Form 8s – – SURFACE COATING (Aviation, Wood, Boat, Other) (one form per coating EU and supplemental information attachment)

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

FORM 1- NOTICE OF CONSTRUCTION

TO CONSTRUCT - INSTALL - ESTABLISH OR MODIFY AN AIR CONTAMINANT SOURCE

Form 1 Instructions:

1. Please complete all the fields below. **This NOC application is considered incomplete until signed.**
2. If the application contains any confidential business information, please complete a Request of Confidentiality of Records (www.orcaa.org).
3. Duty to Correction Application: An applicant has the duty to supplement or correct an application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application must, upon becoming aware of such failure or incorrect submittal, promptly submit supplementary factors or corrected information.

Business Name: Alta Forest Products, LLC	**For ORCAA use only**
Mailing Address: 810 NW Alta Way, Chehalis, WA 98532	File No: County No: Source No: Application No:
Physical Address of Project or New Source: 780 West State Route 108, Shelton, WA 98584	Date Received:
Billing Address: 810 NW Alta Way, Chehalis, WA 98532	

Project or Equipment to be installed/established:

Installation of proposed emission unit (EU8). Establishment of existing coaters (Transverse and C

Anticipated startup date: 12 / 1 / 2023 Is facility currently registered with ORCAA? Yes ☑ No ☐

This project must meet the requirements of the State Environmental Policy Act (SEPA) before ORCAA can issue final approval. Indicate the SEPA compliance option:

☑ SEPA was satisfied by Mason County (government agency) on 6 / 4 / 19 (date) - Include a copy of the SEPA determination

☐ SEPA threshold determination by _____ (government agency) is pending - Include a copy of the environmental checklist

☐ ORCAA is the only government agency requiring a permit - Include ORCAA Environmental Checklist

☐ This project is exempt from SEPA per _____ (WAC citation).

Name of Owner of Business: Itochu Building Products		Agency Use Only
Title: Kobe Yamamoto		
Email: kobeyamamoto@ibpholdings.com	Phone: 360-219-0008	
Authorized Representative for Application (if different than owner): James Venters		
Title: Vice President of Sales		
Email: jamesventers@altafp.com	Phone: 253-691-9904	
I hereby certify that the information contained in this application is, to the best of my knowledge, complete and correct.		
Signature of Owner or Authorized Representative: (sign in Blue Ink)		
	Date:	
IMPORTANT: Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.		

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

FORM 1D- Contact Information

Business Name	**FOR ORCAA USE**
Alta Forest Products, LLC	**FILE #**
Physical Site Address (Street address, city, state, zip)	**CTY #**
780 West State Route 108, Shelton, WA 98584	**SRC #**
	Date Received
Previous Business Name (if applicable)	

Contact Information

Inspection Contact	
Name Dan Florek	Title Operations Manager
Phone 360-827-0209	Email danflorek@altafp.com
Billing Contact	
Name Sierra Dotson	Title AP Clerk
Phone 360-219-0008	Email ap@altafp.com
Emission Inventory Contact	
Name Frank Pizzollo	Title Safety Coordinator
Phone 360-463-0341	Email frankpizzollo@altafp.com
Complaint Contact	
Name Brian Wamsley	Title Director or Operations
Phone 360-827-0209	Email brainwamsley@altafp.com
Permit Contact	
Name James Venters	Title Vice President of Sale
Phone 253-691-9904	Email jamesventers@altafp.com

The **inspection contact** is the on-site person responsible for the everyday operation of the site and is available for inspections.
The **billing contact** is the person invoices are sent.
The **emission inventory contact** is the person requests for emissions information and material use information are sent.
The **complaint contact** is the person who receives and responds to complaints received on-site and who is contacted regarding complaints ORCAA receives.
The **permit contact** is the person responsible for filling out permit applications and receiving approval from ORCAA.

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

FORM 1A- NOTICE OF CONSTRUCTION or REVISION
REQUEST TO CHANGE NOC/NOI CONDITIONS OF APPROVAL

UNDER ORCAA REGULATIONS RULE 6.1.11

Form 1 Instructions:

1. Please complete all the fields below. **This NOC application is considered incomplete until signed.**
2. If the application contains any confidential business information, please complete a Request of Confidentiality of Records (www.orcaa.org/forms).
3. Duty to Correction Application: An applicant has the duty to supplement or correct an application. Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application must, upon becoming aware of such failure or incorrect submittal, promptly submit supplementary factors or corrected information.

Business Name: Alta Forest Products, LLC	**For ORCAA use only**
Mailing Address: 810 NW Alta Way, Chehalis, WA 98532	File No: County No: Source No: Notice of Revision:
Physical Address of Project or New Source: 780 West State Route 108, Shelton, WA 98584	Date Received:
Billing Address: 810 NW Alta Way, Chehalis, WA 98532	
NOC/NOI Number 23NOC1587	Date Issued: TBD(4/7/2023)

☑ Request to Modify Condition # Update details about EU8 and including Coater 2 and Transverse in permit

Please attach the following information:

1. A description of the proposed change
2. The reason for the proposed change

Any additional documentation necessary to review the proposed changes and/or impacts on air quality (i.e. analysis of the change in emission, revised drawing, technical specifications)

Name of Owner of Business: Itochu Building Products		Agency Use Only
Title: Kobe Yamamoto		
Email: kobeyamamoto@ibpholdings.com	Phone: 360-219-0008	
Authorized Representative for Application (if different than owner): James Venters		
Title: AP Clerk		
Email: ap@altafp.com	Phone: 360-219-0008	
I hereby certify that the information contained in this application is, to the best of my knowledge, complete and correct.		
Signature of Owner or Authorized Representative: (sign in Blue Ink)		
James Venters	**Date:**	
IMPORTANT: Do not send via email or other electronic means. ORCAA must receive Original, hardcopy, signed application and payment prior to processing application.		

FORM 4
FACILITY EMISSIONS SUMMARY

Facility: Alta Forest Products Shelton Mill

Instructions: on back.

Emission Unit ID#	TSP	PM-10	SOx	NOx	VOC	CO
EU1					4	
EU8					59	
EU2					26	
Coater 2					5	
Transverse					5	
Facility Total					99	

FORM 6
BACT ANALYSIS TABLE

Emission Unit: EU8

CONTROL OPTIONS	CONTROL EFFICIENCY (% removal)	POTENTIAL EMISSIONS (lbs/hr)	EXPECTED EMISSIONS (tons/yr)	ANNUAL EMISSION REDUCTIONS (tons)	ANNUAL COST ($)	COST EFFECTIVENESS ($/ton)	ENERGY, ENVIRONMENTAL ECONOMIC IMPACTS (list)
1. Regenerative Therma	98	67.58	296	290	3,933,647	13,575.23	See BACT Analysis Report
2. Work practices	0	67.58	296	0	0	0	See BACT Analysis Report
3.							
4.							
5.							
6.							

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www.orcaa.org

FORM 8

Fill out all the applicable equipment information requested below and submit the appropriate fees.

SPRAY COATING (Autobody)
SURFACE COATING (Aviation, Wood, Boat, Other)

Shop Information

Business Name: Alta Forest Products Flow Coater (EU1)	**Contact Person:** James Venters
	Phone Number: 253-691-9904
	Email: jamesventers@altafp.com
Operating Schedule: 20 hrs/day, 4 days/wk, 52 wks/yr	**Indicate days when operating:** ■ M ■ T ■ W ■ Thu ☐ F ☐ Sat ☐ Sun

Process Information

Flow:	☐ Cross front flow ☐ Cross reverse flow	☐ Full downdraft ☐ Semi-downdraft	☐ Side downdraft ☐ Updraft	☐ Combination ■ Other (explain in attachment)
Exhaust:	☐ Side Wall	☐ Pit/Trench Design	☐ Ceiling	☐ Rear Wall ☐ Front/Doors
Intake Type:	☐ Natural	☐ Forced (air make-up unit)		
Enclosure Type:	■ Fully enclosed ☐ Closed top open front (CTOF)	☐ Compact/modular ☐ Curtain/tent/drape ☐ Tunnel		☐ Open table/bench ☐ Other (explain in attachment)
Width (feet):		**Length (feet):**		**Height (feet):**
Manufacturer:	Alta fabricated coater			
Model Number:				
Serial Number:				
Pressure Gauge:	☐ Yes ☒ No	**Filter Plenum:**	☐ Yes ☒ No	
Intended Applicator Usage (see next section):	■ Applicator #1 ☐ Applicator #2	☐ Applicator #3 ☐ Applicator #4		☐ Applicator #5
Air Pollution Control Methods:	☐ Water Wash ☐ Scrubber ☐ Oxidizer (Form 35)	☐ Low VOC coatings ☐ Cyclone (Form 13) ☐ Baghouse (Form 12)		☐ Cartridge unit (Form 12) ☐ Enclosed spray gun cleaner
Heater/Curing Information (if applicable)				
Heater Placement:	☐ Part of spray booth unit	☐ Separate curing enclosure (Form 11)		
Curing/Heating Type :	☐ Hot air dryer ☐ Ultraviolet	☐ Infrared dryer ☐ Boiler		■ Other (explain in attachment)
Fuel/Heat Type :	☐ Natural gas ☐ Propane (LP) Gas	☐ Electric ☐ Diesel		☐ Other (explain in attachment)
Maximum Heating Rate (MMBtu/hr):				
Maximum Air Flow Rate (acfm):				

RETURN TO ORCAA

Coating Operation Information

Type:	☒ Existing Stationary Source ☐ Temporary Source ☐ New Stationary Source
NAICS Code(s):	

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type:**	☒Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating
Manufacturer:					
Model:					
Quantity:					
Technology Type:	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☒Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)
Automation/ Control:	☒Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic
Air Supply Pressure (psi):					
Fluid Output Pressure (psi):					
Mounting:	☐Handheld Gun ☒Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator

**Only provide further information for applicators that are <u>not</u> roller/brush

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:		
Model:		
Media Type:		
Overall Arrest Efficiency (%):		
Filtered Area (squared feet):		

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Other Process Information

Abrasive Blasting:	☐Yes (Form 17) ☒No
Welding:	☐Yes (Form 19) ☒No
Metal Cutting:	☐Yes (Form 31) ☒No
Fluidized Bed Coating:	☐Yes ☒No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	☐Yes** ☒No
Phosphate or Chromate Conversion Coating:	☐Yes** ☒No
Chemical/Acid Rinsing or Bathing:	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Exhaust/Stack/Building Information

Motor Power (hp):		
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	No Stack Planned	
Fan Diameter (feet):		
Stack Type:	☐Vertical (Ceiling Outlet)	☐Horizontal (Wall Outlet)
Stack Height (feet from ground):		
Stack Inside Diameter (inches):		
Stack weatherproof damper or exhaust apparatus:	☐None ☐Hexagonal ☐Stack within stack	☐Butterfly ☐Inverted cone ☐Other (explain in attachment)
Bldg. Peak Height (feet):		
Bldg. Width (feet):		
Bldg. Length (feet)		

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	

Filing Fee:

See https://www.orcaa.org/services/fee-schedules/ for an up-to-date list of fees

Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) used in all coating operations, including but not limited to pre-treatment wash, chemical strippers, paint, primer, topcoat, clearcoat, gelcoat, lacquer, stain, catalyst, activator, hardener, resin, filler, sealer, adhesive, solvent and thinner/reducer and any other materials used which contain volatile organic compounds (VOC). Use additional pages if necessary. For similar materials such as multiple color variations of a stain or paint, enter as single item with a usage rate representing the total gallons of all variations used, and provide the MSDS for the constituent which is most used.

NAME OF MATERIAL (as on SDS/ MSDS):	ESTIMATED ANNUAL USAGE (in gallons):	**Applicator #** (as defined in the "Coating Equipment Information" section):
AFP Pro Finish Stain & Sealer 609601 - Cedar Tone	TBD	EU1
AFP Pro Finish Stain & Sealer 609603 - Leatherwood	TBD	EU1
AFP Pro Finish Stain & Sealer 609604 - Oxford Brown	TBD	EU1

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Telephone: (360)-539-7610 – Fax: (360)-491-6308
www.orcaa.org

FORM 8

Fill out all the applicable equipment information requested below and submit the appropriate fees.

SPRAY COATING (Autobody)
SURFACE COATING (Aviation, Wood, Boat, Other)

Shop Information

Business Name: Alta Forest Products Spray Box Coater 3 Original (EU2)	**Contact Person:** James Venters **Phone Number:** 253-691-9904 **Email:** jamesventers@altafp.com
Operating Schedule: 20 hrs/day, 4 days/wk, 52 wks/yr	**Indicate days when operating:** ■ M ■ T ■ W ■ Thu ☐ F ☐ Sat ☐ Sun

Process Information

Flow:	☐ Cross front flow ☐ Full downdraft ☐ Side downdraft ☐ Combination ☐ Cross reverse flow ☐ Semi-downdraft ☐ Updraft ■ Other (explain in attachment)		
Exhaust:	☐ Side Wall ☐ Pit/Trench Design ■ Ceiling ☐ Rear Wall ☐ Front/Doors		
Intake Type:	☐ Natural ☐ Forced (air make-up unit)		
Enclosure Type:	■ Fully enclosed ☐ Closed top open front (CTOF)	☐ Compact/modular ☐ Curtain/tent/drape ☐ Tunnel	☐ Open table/bench ☐ Other (explain in attachment)
Width (feet):		**Length (feet):**	**Height (feet):**
Manufacturer:	Spray Co		
Model Number:			
Serial Number:			
Pressure Gauge:	☐ Yes ☐ No	**Filter Plenum:**	☐ Yes ☐ No
Intended Applicator Usage (see next section):	■ Applicator #1 ☐ Applicator #2	☐ Applicator #3 ☐ Applicator #4	☐ Applicator #5
Air Pollution Control Methods:	☐ Water Wash ☐ Scrubber ☐ Oxidizer (Form 35)	☐ Low VOC coatings ☐ Cyclone (Form 13) ☐ Baghouse (Form 12)	☐ Cartridge unit (Form 12) ☐ Enclosed spray gun cleaner
Heater/Curing Information (if applicable)			
Heater Placement:	☐ Part of spray booth unit ☐ Separate curing enclosure (Form 11)		
Curing/Heating Type :	☐ Hot air dryer ☐ Ultraviolet	☐ Infrared dryer ☐ Boiler	■ Other (explain in attachment)
Fuel/Heat Type :	☐ Natural gas ☐ Propane (LP) Gas	☐ Electric ☐ Diesel	☐ Other (explain in attachment)
Maximum Heating Rate (MMBtu/hr):			
Maximum Air Flow Rate (acfm):			

RETURN TO ORCAA

Coating Operation Information

Type:	☒ Existing Stationary Source ☐ Temporary Source ☐ New Stationary Source
NAICS Code(s):	

Coating Equipment Information

	Applicator #1	**Applicator #2**	**Applicator #3**	**Applicator #4**	**Applicator #5**
Coating Type:**	☐Brush/Roller ☐Web ☒Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating
Manufacturer:					
Model:					
Quantity:					
Technology Type:	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)
Automation/ Control:	☐Manual ☒Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic
Air Supply Pressure (psi):					
Fluid Output Pressure (psi):					
Mounting:	☐Handheld Gun ☒Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator

**Only provide further information for applicators that are <u>not</u> roller/brush

Dry Filter Information

	Pre-Filter	**Exhaust Filter**
Manufacturer:		
Model:		
Media Type:		
Overall Arrest Efficiency (%):		
Filtered Area (squared feet):		

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Other Process Information

Abrasive Blasting:	☐Yes (Form 17) ☒No
Welding:	☐Yes (Form 19) ☒No
Metal Cutting:	☐Yes (Form 31) ☒No
Fluidized Bed Coating:	☐Yes ☒No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	☐Yes** ☒No
Phosphate or Chromate Conversion Coating:	☐Yes** ☒No
Chemical/Acid Rinsing or Bathing:	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Exhaust/Stack/Building Information

Motor Power (hp): 1 HP		
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	425 cfm @ 0.65"	
Fan Diameter (feet):	Ø 15"	
Stack Type:	☒Vertical (Ceiling Outlet)	☐Horizontal (Wall Outlet)
Stack Height (feet from ground):	26'-10"	
Stack Inside Diameter (inches):	Ø 8"	
Stack weatherproof damper or exhaust apparatus:	☐None ☐Hexagonal ☐Stack within stack	☐Butterfly ■Inverted cone ☐Other (explain in attachment)
Bldg. Peak Height (feet):	18'-10"	
Bldg. Width (feet):		
Bldg. Length (feet)		

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	

Filing Fee:

See https://www.orcaa.org/services/fee-schedules/ for an up-to-date list of fees

Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) used in all coating operations, including but not limited to pre-treatment wash, chemical strippers, paint, primer, topcoat, clearcoat, gelcoat, lacquer, stain, catalyst, activator, hardener, resin, filler, sealer, adhesive, solvent and thinner/reducer and any other materials used which contain volatile organic compounds (VOC). Use additional pages if necessary. For similar materials such as multiple color variations of a stain or paint, enter as single item with a usage rate representing the total gallons of all variations used, and provide the MSDS for the constituent which is most used.

NAME OF MATERIAL (as on SDS/ MSDS):	ESTIMATED ANNUAL USAGE (in gallons):	**Applicator #** (as defined in the "Coating Equipment Information" section):
Mycostat® IV	TBD	EU2
WB Lumber Colorant, Alta Light Cedar (77183)	TBD	EU2
Lumber Colorant CA Brown (77186)	TBD	EU2
WB Lumber Colorant, Medium Brown (77166)	TBD	EU2

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502
Telephone: (360)-539-7610 – Fax: (360)-491-6308
www.orcaa.org

FORM 8

Fill out all the applicable equipment information requested below and submit the appropriate fees.

SPRAY COATING (Autobody)
SURFACE COATING (Aviation, Wood, Boat, Other)

Shop Information

Business Name: Alta Forest Products [Flow Coater (Proposed) EU8]	**Contact Person:** James Venters
	Phone Number: 253-691-9904
	Email: jamesventers@altafp.com
Operating Schedule: 20 hrs/day, 4 days/wk, 52 wks/yr	**Indicate days when operating:** ■ M ■ T ■ W ■ Thu ☐ F ☐ Sat ☐ Sun

Process Information

Flow:	☐ Cross front flow ☐ Cross reverse flow	☐ Full downdraft ☐ Semi-downdraft	☐ Side downdraft ☐ Updraft	☐ Combination ■ Other (explain in attachment)
Exhaust:	☐ Side Wall	☐ Pit/Trench Design	☐ Ceiling	☐ Rear Wall ☐ Front/Doors
Intake Type:	☐ Natural	☐ Forced (air make-up unit)		
Enclosure Type:	■ Fully enclosed ☐ Closed top open front (CTOF)	☐ Compact/modular ☐ Curtain/tent/drape ☐ Tunnel	☐ Open table/bench ☐ Other (explain in attachment)	
Width (feet):		**Length (feet):**		**Height (feet):**
Manufacturer:	Wood Defender			
Model Number:				
Serial Number:				
Pressure Gauge:	☐ Yes ☐ No	**Filter Plenum:**	☐ Yes ☐ No	
Intended Applicator Usage (see next section):	■ Applicator #1 ☐ Applicator #2	☐ Applicator #3 ☐ Applicator #4	☐ Applicator #5	
Air Pollution Control Methods:	☐ Water Wash ☐ Scrubber ☐ Oxidizer (Form 35)	☐ Low VOC coatings ☐ Cyclone (Form 13) ☐ Baghouse (Form 12)	☐ Cartridge unit (Form 12) ☐ Enclosed spray gun cleaner	
Heater/Curing Information (if applicable)				
Heater Placement:	☐ Part of spray booth unit	☐ Separate curing enclosure (Form 11)		
Curing/Heating Type :	☐ Hot air dryer ☐ Ultraviolet	☐ Infrared dryer ☐ Boiler	■ Other (explain in attachment)	
Fuel/Heat Type :	☐ Natural gas ■ Propane (LP) Gas	☐ Electric ☐ Diesel	■ Other (explain in attachment)	
Maximum Heating Rate (MMBtu/hr):				
Maximum Air Flow Rate (acfm):				

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Coating Operation Information

Type:	☐ Existing Stationary Source ☐ Temporary Source ☒ New Stationary Source
NAICS Code(s):	

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type:**	☒ Brush/Roller ☐ Web ☐ Wet spray ☐ Deposition ☐ Powder ☐ Plating	☐ Brush/Roller ☐ Web ☐ Wet spray ☐ Deposition ☐ Powder ☐ Plating	☐ Brush/Roller ☐ Web ☐ Wet spray ☐ Deposition ☐ Powder ☐ Plating	☐ Brush/Roller ☐ Web ☐ Wet spray ☐ Deposition ☐ Powder ☐ Plating	☐ Brush/Roller ☐ Web ☐ Wet spray ☐ Deposition ☐ Powder ☐ Plating
Manufacturer:					
Model:					
Quantity:					
Technology Type:	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☒ Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐ Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐ Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐ Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐ Other (explain in attachment)
Automation/ Control:	☒ Manual ☐ Automatic	☐ Manual ☐ Automatic	☐ Manual ☐ Automatic	☐ Manual ☐ Automatic	☐ Manual ☐ Automatic
Air Supply Pressure (psi):					
Fluid Output Pressure (psi):					
Mounting:	☐ Handheld Gun ☒ Machine/ Reciprocator	☐ Handheld Gun ☐ Machine/ Reciprocator	☐ Handheld Gun ☐ Machine/ Reciprocator	☐ Handheld Gun ☐ Machine/ Reciprocator	☐ Handheld Gun ☐ Machine/ Reciprocator

**Only provide further information for applicators that are <u>not</u> roller/brush

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:		
Model:		
Media Type:		
Overall Arrest Efficiency (%):		
Filtered Area (squared feet):		

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Other Process Information

Abrasive Blasting:	☐Yes (Form 17) ☒No
Welding:	☐Yes (Form 19) ☒No
Metal Cutting:	☐Yes (Form 31) ☒No
Fluidized Bed Coating:	☐Yes ☒No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	☐Yes** ☒No
Phosphate or Chromate Conversion Coating:	☐Yes** ☒No
Chemical/Acid Rinsing or Bathing:	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Exhaust/Stack/Building Information

Motor Power (hp):		
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	No Stack Planned	
Fan Diameter (feet):		
Stack Type:	☐Vertical (Ceiling Outlet)	☐Horizontal (Wall Outlet)
Stack Height (feet from ground):		
Stack Inside Diameter (inches):		
Stack weatherproof damper or exhaust apparatus:	☐None ☐Hexagonal ☐Stack within stack	☐Butterfly ☐Inverted cone ☐Other (explain in attachment)
Bldg. Peak Height (feet):		
Bldg. Width (feet):		
Bldg. Length (feet)		

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	

Filing Fee:

See https://www.orcaa.org/services/fee-schedules/ for an up-to-date list of fees

Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) used in all coating operations, including but not limited to pre-treatment wash, chemical strippers, paint, primer, topcoat, clearcoat, gelcoat, lacquer, stain, catalyst, activator, hardener, resin, filler, sealer, adhesive, solvent and thinner/reducer and any other materials used which contain volatile organic compounds (VOC). Use additional pages if necessary. For similar materials such as multiple color variations of a stain or paint, enter as single item with a usage rate representing the total gallons of all variations used, and provide the MSDS for the constituent which is most used.

NAME OF MATERIAL (as on SDS/ MSDS):	ESTIMATED ANNUAL USAGE (in gallons):	**Applicator #** (as defined in the "Coating Equipment Information" section):
AFP Pro Finish Stain & Sealer 609601 - Cedar Tone	TBD	EU8
AFP Pro Finish Stain & Sealer 609603 - Leatherwood	TBD	EU8
AFP Pro Finish Stain & Sealer 609604 - Oxford Brown	TBD	EU8

OLYMPIC REGION CLEAN AIR AGENCY

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FORM 8

Fill out all the applicable equipment information requested below and submit the appropriate fees.

SPRAY COATING (Autobody)
SURFACE COATING (Aviation, Wood, Boat, Other)

Shop Information

Business Name: Alta Forest Products Spray Box Coater 1 - Transverse	**Contact Person:** James Vemters **Phone Number:** 253-691-9904 **Email:** Jamesventers@altafp.com
Operating Schedule: 20 hrs/day, 4 days/wk, 52 wks/yr	**Indicate days when operating:** ■ M ■ T ■ W ■ Thu ☐ F ☐ Sat ☐ Sun

Process Information

Flow:	☐ Cross front flow ☐ Full downdraft ☐ Side downdraft ☐ Combination ☐ Cross reverse flow ☐ Semi-downdraft ☐ Updraft ■ Other (explain in attachment)		
Exhaust:	☐ Side Wall ☐ Pit/Trench Design ■ Ceiling ☐ Rear Wall ☐ Front/Doors		
Intake Type:	☐ Natural ☐ Forced (air make-up unit)		
Enclosure Type:	■ Fully enclosed ☐ Closed top open front (CTOF)	☐ Compact/modular ☐ Curtain/tent/drape ☐ Tunnel	☐ Open table/bench ☐ Other (explain in attachment)
Width (feet):		**Length (feet):**	**Height (feet):**
Manufacturer:	Spray Co		
Model Number:			
Serial Number:			
Pressure Gauge:	☐ Yes ☐ No	**Filter Plenum:**	☐ Yes ☐ No
Intended Applicator Usage (see next section):	■ Applicator #1 ☐ Applicator #2	☐ Applicator #3 ☐ Applicator #4	☐ Applicator #5
Air Pollution Control Methods:	☐ Water Wash ☐ Scrubber ☐ Oxidizer (Form 35)	☐ Low VOC coatings ☐ Cyclone (Form 13) ☐ Baghouse (Form 12)	☐ Cartridge unit (Form 12) ☐ Enclosed spray gun cleaner
Heater/Curing Information (if applicable)			
Heater Placement:	☐ Part of spray booth unit ☐ Separate curing enclosure (Form 11)		
Curing/Heating Type :	☐ Hot air dryer ☐ Ultraviolet	☐ Infrared dryer ☐ Boiler	■ Other (explain in attachment)
Fuel/Heat Type :	☐ Natural gas ☐ Propane (LP) Gas	☐ Electric ☐ Diesel	☐ Other (explain in attachment)
Maximum Heating Rate (MMBtu/hr):			
Maximum Air Flow Rate (acfm):			

RETURN TO ORCAA

Coating Operation Information

Type:	☒ Existing Stationary Source ☐ Temporary Source ☐ New Stationary Source
NAICS Code(s):	

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type:**	☐Brush/Roller ☐Web ☒Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating
Manufacturer:					
Model:					
Quantity:					
Technology Type:	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☒Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)
Automation/ Control:	☐Manual ☒Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic
Air Supply Pressure (psi):					
Fluid Output Pressure (psi):					
Mounting:	☐Handheld Gun ☒Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator

**Only provide further information for applicators that are not roller/brush

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:		
Model:		
Media Type:		
Overall Arrest Efficiency (%):		
Filtered Area (squared feet):		

Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Other Process Information

Abrasive Blasting:	☐Yes (Form 17) ☒No
Welding:	☐Yes (Form 19) ☒No
Metal Cutting:	☐Yes (Form 31) ☒No
Fluidized Bed Coating:	☐Yes ☒No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	☐Yes** ☒No
Phosphate or Chromate Conversion Coating:	☐Yes** ☒No
Chemical/Acid Rinsing or Bathing:	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Exhaust/Stack/Building Information

Motor Power (hp): 1 HP		
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	375 cfm @0.65"	
Fan Diameter (feet):	Ø 15"	
Stack Type:	☒Vertical (Ceiling Outlet)	☐Horizontal (Wall Outlet)
Stack Height (feet from ground):	26'-10"	
Stack Inside Diameter (inches):	Ø 10"	
Stack weatherproof damper or exhaust apparatus:	☐None ☐Hexagonal ☐Stack within stack	☐Butterfly ■Inverted cone ☐Other (explain in attachment)
Bldg. Peak Height (feet):	18'-10"	
Bldg. Width (feet):		
Bldg. Length (feet)		

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	

Filing Fee:

See https://www.orcaa.org/services/fee-schedules/ for an up-to-date list of fees

Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) used in all coating operations, including but not limited to pre-treatment wash, chemical strippers, paint, primer, topcoat, clearcoat, gelcoat, lacquer, stain, catalyst, activator, hardener, resin, filler, sealer, adhesive, solvent and thinner/reducer and any other materials used which contain volatile organic compounds (VOC). Use additional pages if necessary. For similar materials such as multiple color variations of a stain or paint, enter as single item with a usage rate representing the total gallons of all variations used, and provide the MSDS for the constituent which is most used.

NAME OF MATERIAL (as on SDS/ MSDS):	ESTIMATED ANNUAL USAGE (in gallons):	**Applicator #** (as defined in the "Coating Equipment Information" section):
Mycostat® IV	TBD	Transverse

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502
Telephone: (360)-539-7610 – Fax: (360)-491-6308
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FORM 8

Fill out all the applicable equipment information requested below and submit the appropriate fees.

SPRAY COATING (Autobody)
SURFACE COATING (Aviation, Wood, Boat, Other)

Shop Information

Business Name: Alta Forest Products Spray Box Coater 2	**Contact Person:** James Venters
	Phone Number: 253-691-9904
	Email: Jamesventers@altafp.com
Operating Schedule: 20 hrs/day, 4 days/wk, 52 wks/yr	**Indicate days when operating:** ■ M ■ T ■ W ■ Thu ☐ F ☐ Sat ☐ Sun

Process Information

Flow:	☐ Cross front flow ☐ Cross reverse flow	☐ Full downdraft ☐ Semi-downdraft	☐ Side downdraft ☐ Updraft	☐ Combination ■ Other (explain in attachment)
Exhaust:	☐ Side Wall	☐ Pit/Trench Design	■ Ceiling	☐ Rear Wall ☐ Front/Doors
Intake Type:	☐ Natural		☐ Forced (air make-up unit)	
Enclosure Type:	■ Fully enclosed ☐ Closed top open front (CTOF)	☐ Compact/modular ☐ Curtain/tent/drape ☐ Tunnel	☐ Open table/bench ☐ Other (explain in attachment)	
Width (feet):		**Length (feet):**		**Height (feet):**
Manufacturer:	Spray Co			
Model Number:				
Serial Number:				
Pressure Gauge:	☐ Yes ☐ No	**Filter Plenum:**	☐ Yes ☐ No	
Intended Applicator Usage (see next section):	■ Applicator #1 ☐ Applicator #2	☐ Applicator #3 ☐ Applicator #4	☐ Applicator #5	
Air Pollution Control Methods:	☐ Water Wash ☐ Scrubber ☐ Oxidizer (Form 35)	☐ Low VOC coatings ☐ Cyclone (Form 13) ☐ Baghouse (Form 12)	☐ Cartridge unit (Form 12) ☐ Enclosed spray gun cleaner	
Heater/Curing Information (if applicable)				
Heater Placement:	☐ Part of spray booth unit	☐ Separate curing enclosure (Form 11)		
Curing/Heating Type :	☐ Hot air dryer ☐ Ultraviolet	☐ Infrared dryer ☐ Boiler	■ Other (explain in attachment)	
Fuel/Heat Type :	☐ Natural gas ☐ Propane (LP) Gas	☐ Electric ☐ Diesel	☐ Other (explain in attachment)	
Maximum Heating Rate (MMBtu/hr):				
Maximum Air Flow Rate (acfm):				

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Coating Operation Information

Type:	■ Existing Stationary Source ☐ Temporary Source ☐ New Stationary Source
NAICS Code(s):	

Coating Equipment Information

	Applicator #1	Applicator #2	Applicator #3	Applicator #4	Applicator #5
Coating Type:**	☐Brush/Roller ☐Web ■Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating	☐Brush/Roller ☐Web ☐Wet spray ☐Deposition ☐Powder ☐Plating
Manufacturer:					
Model:					
Quantity:					
Technology Type:	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)	☐ HVLP ☐ Electrostatic ☐ Air-assisted airless ☐ Airless ☐ Air spray ☐ Rotary cup ☐ Airbrush ☐Other (explain in attachment)
Automation/ Control:	☐Manual ■Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic	☐Manual ☐Automatic
Air Supply Pressure (psi):					
Fluid Output Pressure (psi):					
Mounting:	☐Handheld Gun ■Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator	☐Handheld Gun ☐Machine/ Reciprocator

**Only provide further information for applicators that are <u>not</u> roller/brush

Dry Filter Information

	Pre-Filter	Exhaust Filter
Manufacturer:		
Model:		
Media Type:		
Overall Arrest Efficiency (%):		
Filtered Area (squared feet):		

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Heavy Metal Information

Application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd):	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Other Process Information

Abrasive Blasting:	☐Yes (Form 17) ☒No
Welding:	☐Yes (Form 19) ☒No
Metal Cutting:	☐Yes (Form 31) ☒No
Fluidized Bed Coating:	☐Yes ☒No

Cleaning/Etching/Degreasing Information

Methylene Chloride Stripping:	☐Yes** ☒No
Phosphate or Chromate Conversion Coating:	☐Yes** ☒No
Chemical/Acid Rinsing or Bathing:	☐Yes** ☒No

**Please provide SDS/ MSDS information and estimated annual usage for each product

Exhaust/Stack/Building Information

Motor Power (hp): 1 HP		
Exhaust Air Flow Rate at 0.65" w.g. (acfm):	425 cfm @ 0.65"	
Fan Diameter (feet):	Ø 15"	
Stack Type:	☒Vertical (Ceiling Outlet)	☐Horizontal (Wall Outlet)
Stack Height (feet from ground):	26'-10"	
Stack Inside Diameter (inches):	Ø 8"	
Stack weatherproof damper or exhaust apparatus:	☐None ☐Hexagonal ☐Stack within stack	☐Butterfly ■Inverted cone ☐Other (explain in attachment)
Bldg. Peak Height (feet):	18'-10"	
Bldg. Width (feet):		
Bldg. Length (feet)		

Air Quality Modeling Site Information

Distance from the centroid of the stack to the shop's property line (feet):	
Distance from the centroid of the stack to the nearest point on the property line of a permanent residence (feet):	

Filing Fee:

See https://www.orcaa.org/services/fee-schedules/ for an up-to-date list of fees

Material Usage Information

Provide the following information and attach copies of Material Safety Data Sheets (MSDS) used in all coating operations, including but not limited to pre-treatment wash, chemical strippers, paint, primer, topcoat, clearcoat, gelcoat, lacquer, stain, catalyst, activator, hardener, resin, filler, sealer, adhesive, solvent and thinner/reducer and any other materials used which contain volatile organic compounds (VOC). Use additional pages if necessary. For similar materials such as multiple color variations of a stain or paint, enter as single item with a usage rate representing the total gallons of all variations used, and provide the MSDS for the constituent which is most used.

NAME OF MATERIAL (as on SDS/ MSDS):	ESTIMATED ANNUAL USAGE (in gallons):	**Applicator #** (as defined in the "Coating Equipment Information" section):
Mycostat® IV	TBD	Coater 2
WB Lumber Colorant, Alta Light Cedar (77183)	TBD	Coater 2
Lumber Colorant CA Brown (77186)	TBD	Coater 2
WB Lumber Colorant, Medium Brown (77166)	TBD	Coater 2

Aaron Manley
Olympic Region Clean Air Agency
October 4, 2023

Emission Calculation Tables

Table 1
VOCs by Product
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Oil Based Coating	SDS VOC (g/l)	VOC (lbs/gal)	Comments
AFP Pro Oxford Brown (609604)	94.9	0.792	No HAPs nor TAPs from listed ingredients in SDS. Spoke with manufacturer via email and they provided additional ingredients resulting in 5 TAPs (3 of which are also HAPs)
AFP Pro Cedar Tone (609601)	95.0	0.793	
APF Pro Leatherwood (609603)	94.4	0.788	

Chemical Anti-fungal Coating		SDS VOC (lbs/gal)	Comments
Mycostat® IV		4.32	One TAP

Water Based Stain	SDS VOC (g/l)	EDS VOC (lbs/gal)	Comments
CA Brown (77186)		0.00	Based on the Environmental Data Sheet (EDS), SDS, and conversations with the manufacturer, the reformulation for CA Brown (77186) by Rodda has no TAPs, HAPs, or VOCs.
Medium Brown (77166)		0.01	Rodda was tasked with formulating Pecan Stain (LP22A13C) as other manufacturers could not reformulate without HAPs or TAPs. Rodda was able to reformulate this color as Medium Brown (77166). Based on the Environmental Data Sheet, SDS, and conversations with the manufacturer, Medium Brown (77166) by Rodda has no TAPs or HAPs.
Alta Light Cedar (77183)		0.00	Based on the Environmental Data Sheet, SDS, and conversations with the manufacturer, the reformulation for Alta Light Cedar (77183) by Rodda has no TAPs, HAPs, or VOCs.

Notes
VOC = Volatile Organic Compound
HAP = Hazardous Air Pollutant
TAP = Toxic Air Pollutant
g/l = grams per liter
lbs/gal = pounds per gallon
SDS = Safety Data Sheet
EDS = Environmental Data Sheet

Table 2
Applicable Hazrdous Thresholds
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

WAC 173-460-150 Relevant Table Snippet						Chemical Information				
Common Name	**CAS#**	**Averaging Period**	**ASIL (µg/m3)**	**SQER (lb/averaging period)**	**De Minimis (lb/averaging period)**	**Chemical Name**	**% by Weight**	**Density (lbs/gal)**	**Chemical of Interest (lb/gal)**	**Notes**
Boric Acid	10043-35-3	24-hr	1714.29	125.71	6.29	Mycostat IV	9.00	7.927	0.71343	Calculated based on relative weight of boron in boric acid
1,2,4-Trimethylbenzene	95-63-6	24-hr	60.00	4.40	0.22	See table below provided by manufacturer for all oil based colorants via email on 5/30/2023				
1,3,5-Trimethylbenzene	108-67-8	24-hr	60.00	4.40	0.22					
Cumene	98-82-8	24-hr	400.00	30.00	1.50					Also a HAP
Xylene (mixture), including m-xylene, o-xylene, p-xylene	1330-20-7	24-hr	220.00	16.00	0.82					Also a HAP
Ethyl benzene	100-41-4	year	0.40	65.00	3.20					Also a HAP

CAS	Name	609601 - Cedar Tone		609603 - Leatherwood		609604 - Oxford Brown	
		WT%	lb./gal	WT%	lb./gal	WT%	lb./gal
95-63-6	1,2,4-Trimethylbenzene	0.0502%	0.0037474	0.0503%	0.0037499	0.0501%	0.0037475
108-67-8	1,3,5-Trimethylbenzene	0.0201%	0.0015005	0.0201%	0.0014985	0.0200%	0.0014960
98-82-8	Cumene	0.0020%	0.0001493	0.0020%	0.0001491	0.0020%	0.0001496
1330-20-7	Xylene	0.0040%	0.0002986	0.0029%	0.0002162	0.0049%	0.0003665
100-41-4	Ethyl Benzene	0.0008%	0.0000597	0.0006%	0.0000447	0.0011%	0.0000823

	Density (lb./gal)	Density (g/mL)
609601	7.465	0.896
609603	7.455	0.895
609604	7.48	0.898

Notes
VOC = Volatile Organic Compound
HAP = Hazardous Air Pollutant
TAP = Toxic Air Pollutant
g/l = grams per liter
lbs/gal = pounds per gallon
ASIL = Acceptable Source Impact Level
SQER = Small Quantity Emissions Rate
ug/m3 = micrograms per cubic meter
g/mL = grams per milliliter

Table 3
Transverse Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	Transverse (Aka Coater 1)
Coater Type	Water-based
Coater Rate (BF/hour)	15,700
2022 Production (BF)	4,737,564
Notes	Only runs Mycostat IV Mycostat IV contains VOC Mycostat IV contains one TAP - Boric Acid

Application Information	
Maximum Daily Production (BF)	65,450
Mycostat IV Annual Usage (gallons)	2,191
Mycostat IV Application Rate (Gal/BF)	0.0005
Mycostat IV VOC (lbs/gal)	4.32
TAP (lbs/gal) - Boric Acid	0.713

Emission Values	
Transverse Annual VOC (tons) - Mycostat IV	4.73
Total Annual VOC across facility (tons)	99.00
Total TAP - Boric Acid (ug/m3 in 24-hr)*	1,439

*If daily Mycostat IV site-wide limit of 377 gallons is run solely through Transverse

Common Name	CAS#	Averaging Period	SQER (lb/24-hr)	ASIL (ug/m3) in 24-hr
Boric Acid	10043-35-3	24-hr	126	1,714

TAP First Tier Review

PART A: Potential to Emit - Boric Acid

	Mycostat IV (gallons/24-hr)	Boric Acid (lbs/24-hr)	Below SQER? (Yes/No) Boric Acid SQER = 126 lb/24-hr	Notes
	174.21	124.28	No	Passes SQER for this source, but not when combined with Coater 2 and EU2, which also emit boric acid. Total combined value is 417.81 lb/24-hr.

PART B: AERSCREEN - Boric Acid

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Mycostat IV (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) Boric Acid ASIL = 1,714 ug/m3	Notes
Maximum Potential to Emit	174.21	5.18	664.6	Yes	Passes ASIL for this source, but not when combined with Coater 2 and EU2, which also emit boric acid. Total combined value is 2,434.4 ug/m3. (See **Table 13** in Emission Calculations and Modeling Report)
Potential to Emit with Site-Wide Gallons/24-hr Restriction	377.00	11.21	1,439	No	Passes ASIL for this source, as a combined total if the entire daily site-wide allotment of Mycostat IV gallons was solely run on Transverse. Alta will take a site-wide limit for Mycostat IV. This will be a limit of 377 total gallons of Mycostat IV for the entire site, which includes Mycostat IV usage at Transverse, Coater 2, and EU2 combined. Alta will track the site-wide Mycostat IV gallon usage daily. (See **Table 13** in Emission Calculations and Modeling Report)

Realistic Potential to Emit

Realistic Emissions based on production percentages for Transverse	30.26	1.08	138.6	No	The site-wide gallons/24-hr restriction of 377 gallons is very attainable. The projected site-wide daily Mycostat IV usage based on production percentages and a 20 hour work day is 231.15 gallons. This gives a percent difference of about 38.68%. Below the ASIL for this coater and for the site daily. When combined with the "realistic emissions based on production percentages" for the other coater lines this is a total daily emission of 1,208.9 ug/m3 which is below the ASIL. (See **Table 13** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 4
Coater 2 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	Coater 2
Coater Type	Water-based
Coater Rate (BF/hour)	14,544
2022 Production (BF)	5,380,858
Notes	Only runs Mycostat IV and water-based stains Mycostat IV and water-based stains contain VOC Mycostat IV contains one TAP - Boric Acid Water-based stains contain no HAPs or TAPs

Application Information	
Maximum Daily Production (BF)	74,328
Mycostat IV Annual Usage (gallons)	2,488
Mycostat IV Application Rate (Gal/BF)	0.0005
Water-Based Colorant Application Rate (Gal/BF)	0.0008
Mycostat IV VOC (lbs/gal)	4.32
Water-Based Colorant VOC (lbs/gal)	0.01
TAP (lbs/gal) - Boric Acid	0.713

Emission Values	
Coater 2 Annual VOC (tons) - Mycostat IV	5.37
Coater 2 Annual VOC (tons) - Medium Brown	0.02
Coater 2 Annual VOC (tons)	5.40
Total Annual VOC across facility (tons)	99.00
Total TAP - Boric Acid (ug/m3 in 24-hr)*	1,481

*If daily Mycostat IV site-wide limit of 377 gallons is run solely through Coater 2

Common Name	CAS#	Averaging Period	SQER (lb/24-hr)	ASIL (ug/m3) in 24-hr
Boric Acid	10043-35-3	24-hr	126	1,714

TAP First Tier Review

PART A: Potential to Emit - Boric Acid

	Mycostat IV (gallons/24-hr)	Boric Acid (lbs/24-hr)	Below SQER? (Yes/No) Boric Acid SQER = 126 lb/24-hr	Notes	
	161.38	115.13	No	Passes SQER for this source, but not when combined with Transverse and EU2, which also emit boric acid. Total combined value is 417.81 lb/24-hr.	

PART B: AERSCREEN - Boric Acid

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Mycostat IV (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) Boric Acid ASIL = 1,714 ug/m3	Notes
Maximum Potential to Emit	161.38	4.80	633.8	Yes	Passes ASIL for this source, but not when combined with Transverse and EU2, which also emit boric acid. Total combined value is 2,434.4 ug/m3. (See **Table 13** in Emission Calculations and Modeling Report)
Potential to Emit with Site-Wide Gallons/24-hr Restriction	377	11.21	1,481	No	Passes ASIL for this source, as a combined total if the entire daily site-wide allotment of Mycostat IV gallons was solely run on Coater 2. Alta will take a site-wide limit for Mycostat IV. This will be a limit of 377 total gallons of Mycostat IV for the entire site, which includes Mycostat IV usage at Transverse, Coater 2, and EU2 combined. Alta will track the site-wide Mycostat IV gallon usage daily. (See **Table 13** in Emission Calculations and Modeling Report)

Realistic Potential to Emit

Realistic Emissions based on production percentages for Coater 2	34.36	1.23	162.4	No	The site-wide gallons/24-hr restriction of 377 gallons is very attainable. The projected site-wide daily Mycostat IV usage based on production percentages and a 20 hour work day is 231.15 gallons. This gives a percent difference of about 38.68%. Below the ASIL for this coater and for the site daily. When combined with the "realistic emissions based on production percentages" for the other coater lines this is a total daily emission of 1,208.9 ug/m3 which is below the ASIL. (See **Table 13** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 5
EU2 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	EU2 (Aka Coater 3 Original)
Coater Type	Water-based
Coater Rate (BF/hour)	22,536
2022 Production (BF)	26,235,314
Notes	Only runs Mycostat IV and water-based stains Mycostat IV and water-based stains contain VOC Mycostat IV contains one TAP - Boric Acid Water-based stains contain no HAPs or TAPs

Application Information	
Maximum Daily Production (BF)	360,200
Mycostat IV Annual Usage (gallons)	12,056
Mycostat IV Application Rate (Gal/BF)	0.0005
Water-Based Colorant Application Rate (Gal/BF)	0.0008
Mycostat IV VOC (lbs/gal)	4.32
Water-Based Colorant VOC (lbs/gal)	0.01
TAP (lbs/gal) - Boric Acid	0.713

Emission Values	
EU2 Annual VOC (tons) - Mycostat IV	26.04
EU2 Annual VOC (tons) - Medium Brown	0.10
EU2 Annual VOC (tons)	26.15
Total Annual VOC across facility (tons)	99.00
Total TAP - Boric Acid (ug/m3 in 24-hr)*	1,712

*If daily Mycostat IV site-wide limit of 377 gallons is run solely through EU2

Common Name	CAS#	Averaging Period	SQER (lb/24-hr)	ASIL (ug/m3) in 24-hr
Boric Acid	10043-35-3	24-hr	126	1,714

TAP First Tier Review

PART A: Potential to Emit - Boric Acid

	Mycostat IV (gallons/24-hr)	Boric Acid (lbs/24-hr)	Below SQER? (Yes/No) Boric Acid SQER = 126 lb/24-hr	Notes
	250.06	178.40	No	Does not pass SQER for this source, nor when combined with Transverse and Coater 2, which also emit boric acid. Total combined value is 417.81 lb/24-hr.

PART B: AERSCREEN - Boric Acid

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Mycostat IV (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) Boric Acid ASIL = 1,714 ug/m3	Notes
Maximum Potential to Emit	250.06	7.43	1,136	Yes	Passes ASIL for this source, but not when combined with Transverse and Coater 2, which also emit boric acid. Total combined value is 2,434.4 ug/m3. (See **Table 13** in Emission Calculations and Modeling Report)
Potential to Emit with Site-Wide Gallons/24-hr Restriction	377	11.21	1,714	No	Passes ASIL for this source, as a combined total if the entire daily site-wide allotment of Mycostat IV gallons was solely run on EU2. Alta will take a site-wide limit for Mycostat IV. This will be a limit of 377 total gallons of Mycostat IV for the entire site, which includes Mycostat IV usage at Transverse, Coater 2, and EU2 combined. Alta will track the site-wide Mycostat IV gallon usage daily. (See **Table 13** in Emission Calculations and Modeling Report)

Realistic Potential to Emit

Realistic Emissions based on production percentages for EU2	166.53	5.94	907.9	No	The site-wide gallons/24-hr restriction of 377 gallons is very attainable. The projected site-wide daily Mycostat IV usage based on production percentages and a 20 hour work day is 231.15 gallons. This gives a percent difference of about 38.68%. Below the ASIL for this coater and for the site daily. When combined with the "realistic emissions based on producton ercentages" for the other coater lines this is a total daily emission of 1,208.9 ug/m3 which is below the ASIL. (See **Table 13** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 6
EU1 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	EU1
Coater Type	Oil-Based
Coater Rate (BF/hour)	6,800
Notes	Only runs oil-based stains All three oil-based stains contain VOC All three oil-based stains contain five TAPs (the last three are also HAPs) 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Cumene | Xylene (mixture), including m-xylene, o-xylene, p-xylene | Ethyl benzene

Application Information	
Annual Prediction (BF)	2,000,000
Oil-Based Colorant Application Rate (Gal/BF)	0.005
Oil-Based Colorant VOC (lbs/gal)	0.793
TAP (lbs/gal) - 1,2,4-Trimethylbenzene	0.0037499
TAP (lbs/gal) - 1,3,5-Trimethylbenzene	0.0015005
TAP (lbs/gal) - Cumene	0.0001496
TAP (lbs/gal) - Xylene	0.0003665
TAP (lbs/gal) - Ethyl benzene	0.0000823

Emission Values	
EU1 Annual VOC (tons)	3.99
Total Annual VOC (tons)	99.00
EU1 TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	8.33
EU1 TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	1.23
EU1 TAP - Cumene (lb/24-hr)	0.12
EU1 TAP - Xylene (lb/24-hr)	0.30
EU1 TAP - Ethyl benzene (ug/m3 in year)	0.030
Total TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	22.46
Total TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	3.58
Total TAP - Cumene (lb/24-hr)	0.36
Total TAP - Xylene (lb/24-hr)	0.87
Total TAP - Ethyl benzene (ug/m3 in year)	0.082

Common Name	CAS#	Averaging Period	SQER (lb/averaging period)	ASIL (ug/m3) in averaging period
1,2,4-Trimethylbenzene	95-63-6	24-hr	4.4	60.00
1,3,5-Trimethylbenzene	108-67-8	24-hr	4.4	60.00
Cumene	98-82-8	24-hr	30.0	400.00
Xylene (mixture), including m-xylene, o-xylene, p-xylene	1330-20-7	24-hr	16.0	220.00
Ethyl benzene	100-41-4	year	65.0	0.40

TAP First Tier Review

PART A: Potential to Emit

Oil-Based Stain (gallons/averaging period)	TAP of Interest	Emission (lbs/averaging period)	SQER (lb/averaging period)	Below SQER? (Yes/No)	Notes
820.90	1,2,4-Trimethylbenzene	3.08	4.4	No	Passes SQER for this source, but not when combined with EU8, which also emits this TAP. Total combined value is 8.95 lb/24-hr.
	1,3,5-Trimethylbenzene	1.23	4.4	Yes	Passes SQER for this source and when combined with EU8, which also emits this TAP. Total combined value is 3.58 lb/24-hr.
	Cumene	0.12	30.0	Yes	Passes SQER for this source and when combined with EU8, which also emits this TAP. Total combined value is 0.36 lb/24-hr. Cumene is also a HAP, of which the site emits a total of 0.0657 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	0.30	16.0	Yes	Passes SQER for this source and when combined with EU8, which also emits this TAP. Total combined value is 0.87 lb/24-hr. Xylene is also a HAP, of which the site emits 0.159 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
299,627	Ethyl benzene	24.65	65.0	No	Passes SQER for this source, but not when combined with EU8, which also emits this TAP. Total combined value is 71.63 lb/year. Ethyl benzene is also a HAP, of which the site emits 0.036 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.

PART B: AERSCREEN - 1,2,4-Trimethylbenzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 60 ug/m3	Notes
Maximum Potential to Emit	820.90	0.128	8.327	No	Passes ASIL for this source and when combined with EU8, which also emits this TAP. Total combined value is 22.46 ug/m3 over 24-hr. (See **Table 14** in Emission Calculations and Modeling Report)

PART B: AERSCREEN - Ethyl benzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/year)	Aerscreen Emission Rate (lbs/hr)	Scaled Annual Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 0.4 ug/m3	Notes
Maximum Potential to Emit	299,627.04	0.0028	0.03035	No	Passes ASIL for this source and when combined with EU8, which also emits this TAP. Total combined value is 0.082 ug/m3 over a year. (See **Table 14** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 7
EU8 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	EU8 (AKA New Oil Coater)
Coater Type	Oil-Based
Coater Rate (BF/hour)	7,920
Notes	Only runs oil-based stains All three oil-based stains contain VOC All three oil-based stains contain five TAPs (the last three are also HAPs) 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Cumene | Xylene (mixture), including m-xylene, o-xylene, p-xylene | Ethyl benzene

Application Information	
Annual Prediction (BF)	18,000,000
Oil-Based Colorant Application Rate (Gal/BF)	0.008
Oil-Based Colorant VOC (lbs/gal)	0.793
TAP (lbs/gal) - 1,2,4-Trimethylbenzene	0.0037499
TAP (lbs/gal) - 1,3,5-Trimethylbenzene	0.0015005
TAP (lbs/gal) - Cumene	0.0001496
TAP (lbs/gal) - Xylene	0.0003665
TAP (lbs/gal) - Ethyl benzene	0.0000823

Emission Values	
EU8 Annual VOC (tons)	58.74
Total Annual VOC (tons)	99.00
EU8 TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	14.13
EU8 TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	2.35
EU8 TAP - Cumene (lb/24-hr)	0.23
EU8 TAP - Xylene (lb/24-hr)	0.57
EU8 TAP - Ethyl benzene (ug/m3 in year)	0.052
Total TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	22.46
Total TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	3.58
Total TAP - Cumene (lb/24-hr)	0.36
Total TAP - Xylene (lb/24-hr)	0.87
Total TAP - Ethyl benzene (ug/m3 in year)	0.082

Common Name	CAS#	Averaging Period	SQER (lb/averaging period)	ASIL (ug/m3) in averaging period
1,2,4-Trimethylbenzene	95-63-6	24-hr	4.4	60.00
1,3,5-Trimethylbenzene	108-67-8	24-hr	4.4	60.00
Cumene	98-82-8	24-hr	30.0	400.00
Xylene (mixture), including m-xylene, o-xylene, p-xylene	1330-20-7	24-hr	16.0	220.00
Ethyl benzene	100-41-4	year	65.0	0.40

TAP First Tier Review

PART A: Potential to Emit

Oil-Based Stain (gallons/averaging period)	TAP of Interest	Emission (lbs/averaging period)	SQER (lb/averaging period)	Below SQER? (Yes/No)	Notes
1,564.36	1,2,4-Trimethylbenzene	5.87	4.4	No	Does not Pass SQER alone nor when combined with EU1, which also emits this TAP. Total combined value is 8.95 lb/24-hr.
	1,3,5-Trimethylbenzene	2.35	4.4	Yes	Passes SQER for this source and when combined with EU1, which also emits this TAP. Total combined value is 3.58 lb/24-hr.
	Cumene	0.23	30.0	Yes	Passes SQER for this source and when combined with EU1, which also emits this TAP. Total combined value is 0.35 lb/24-hr. Cumene is also a HAP, of which the site emits a total of 0.064 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	0.57	16.0	Yes	Passes SQER for this source and when combined with EU1, which also emits this TAP. Total combined value is 0.87 lb/24-hr. Xylene is also a HAP, of which the site emits 0.159 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
570,991	Ethyl benzene	46.98	65.0	No	Passes SQER for this source, but not when combined with EU1, which also emits this TAP. Total combined value is 71.63 lb/year. Ethyl benzene is also a HAP, of which the site emits 0.036 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.

PART B: AERSCREEN - 1,2,4-Trimethylbenzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 60 ug/m3	Notes
Maximum Potential to Emit	1,564.36	0.244	14.13	No	Passes ASIL for this source and when combined with EU1, which also emits this TAP. Total combined value is 22.46 ug/m3 over 24-hr. (See **Table 14** in Emission Calculations and Modeling Report)

PART B: AERSCREEN - Ethyl benzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/year)	Aerscreen Emission Rate (lbs/hr)	Scaled Annual Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 0.4 ug/m3	Notes
Maximum Potential to Emit	570,990.82	0.0054	0.05213	No	Passes ASIL for this source and when combined with EU1, which also emits this TAP. Total combined value is 0.082 ug/m3 over a year. (See **Table 14** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Aaron Manley
Olympic Region Clean Air Agency
October 4, 2023

Figures

0 250 500

SCALE IN FEET

N

FIGURE 1

AREA MAP

ALTA FOREST PRODUCTS
SHELTON, WASHINGTON

PROJECT NO.	PREPARED BY	DRAWN BY	
ALTASHLSWP	JL	JH	anteagroup
DATE	REVIEWED BY	FILE NAME	
04/15/2021	KO	FIGURE2_SITE	

LEGEND

EMISSION POINT SOURCE

EMISSION VOLUME SOURCE

N

0 100 200

SCALE IN FEET

FIGURE 2
EMISSION SOURCE LOCATION MAP

ALTA FOREST PRODUCTS
SHELTON, WASHINGTON

PROJECT NO.	PREPARED BY	DRAWN BY
ALTA FOREST PRODUCTS	JL	JL
DATE	REVIEWED BY	FILE NAME
07/10/2023	TP	FIGURE 2

anteagroup

Aaron Manley
Olympic Region Clean Air Agency
October 4, 2023

Appendix A – SDS Sheets

SAFETY DATA SHEET

Issue Date 30-Jan-2019 **Revision Date** 30-Apr-2020 **Version** 2

1. IDENTIFICATION

Product identifier
Product Name

Mycostat® IV

Other means of identification
Product Code 32630
UN/ID no UN1760
Registration Number(s) 71406-4-70227

Recommended use of the chemical and restrictions on use
Recommended Use Anti-sapstain Product.

Details of the supplier of the safety data sheet
Supplier Address
Diacon Technologies Ltd., a Lonza company
#135-11960 Hammersmith Way
Richmond, BC Canada V7A 5C9

Emergency telephone number
Company Phone Number 1-800-777-1875
Emergency Telephone For incidents only (spill, leak, fire, exposure, or accident), call CHEMTREC:
1-800-424-9300 (Inside North America) [CCN 864796]
1-703-741-5970 (Outside North America) [CCN 864796]

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Reproductive toxicity	Category 1B

Label elements

Emergency Overview

Danger

Hazard statements
Harmful if inhaled
Causes severe skin burns and eye damage
May damage fertility or the unborn child

Appearance Liquid **Physical state** Liquid **Odor** No information available

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Use only outdoors or in a well-ventilated area
Do not breathe dust/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see First Aid on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician if you feel unwell
Immediately call a POISON CENTER or doctor/physician
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Not applicable

Other Information
Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS No.	Weight-%	Trade Secret
2-ethyl hexanoic acid	149-57-5	15 - 20	*
Boric acid	10043-35-3	9.0	*
Fenpropimorph	67564-91-4	5.4	
Propiconazole	60207-90-1	2.7	

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water.

Inhalation Remove to fresh air. Call a physician immediately. If not breathing, give artificial respiration.

Ingestion If swallowed, call a poison control center or physician immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO2). Water spray or fog.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical
No information available.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Toxic gas. Nitrogen oxides (NOx).

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place.

Incompatible materials Strong oxidizing agents. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-ethyl hexanoic acid 149-57-5	TWA: 5 mg/m³ inhalable fraction and vapor	-	-
Boric acid 10043-35-3	STEL: 6 mg/m³ inhalable particulate matter TWA: 2 mg/m³ inhalable particulate matter	-	-

Appropriate engineering controls

Engineering Controls General ventilation is normally adequate provided spray mists are contained through negative pressure spraybox design with integrated mist eliminator.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Eyewash station and emergency shower should be available in the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Liquid	**Odor**	No information available
Color	yellow	**Odor threshold**	No information available

Property	**Values**	**Remarks • Method**
pH	7	2% solution @ 20 C
Melting point / freezing point	< -1 °C / <30 °F	
Boiling point / boiling range	> 101 °C / >214 °F	
Flash point	Does not flash	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Relative density	0.95 g m/L @ 20C	
Water solubility	Miscible in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	54.5% (4.32 lbs/ US gal)
Density	7.927 lbs/US Gal
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents. Strong reducing agents.

Hazardous Decomposition Products
None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Harmful by inhalation. Avoid breathing vapors or mists.

Eye contact Corrosive. Avoid contact with eyes.

Skin contact May cause burns. Avoid contact with skin and clothing.

Ingestion Harmful if swallowed. Do not taste or swallow.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-ethyl hexanoic acid 149-57-5	= 2043 mg/kg (RT)	>2000 mg/kg (RBT)	-
Boric acid 10043-35-3	>2600 mg/kg (RT)	> 2000 mg/kg (RBT)	-
Fenpropimorph 67564-91-4	1670 mg/kg (RT)	>4200 mg/kg (RT)	>2.2 mg/L (RT) 4h
Propiconazole 60207-90-1	500 mg/kg (RT)	> 2000 mg/kg (RBT)	>6.639 mg/L (RT) 4h

Note:
RT = Rat
RBT = Rabbit
MSE = Mouse
GP = Guinea Pig
V = Vapour

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation Risk of serious damage to eyes.
Corrosivity Causes severe burns.
Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)
ATEmix (dermal)
ATEmix (inhalation-gas)
ATEmix (inhalation-dust/mist)
ATEmix (inhalation-vapor)

Numerical measures of toxicity

Oral LD50 > 2000 mg/kg (rat)
Dermal LD50 > 2000 mg/kg (rat)
Inhalation LC50 2.57 mg/l rat

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2-ethyl hexanoic acid 149-57-5	49.3 mg/l EC50 72h (Desmodesmus suspicatus)	>100 mg/L LC50 96h (Oryzias latipes)	85 mg/L EC50 48h (Daphnia magna)
Boric acid 10043-35-3	230 mg/L EC50 72h (Pseudokirchneriella subcapitata)	455 mg/L LC50 96h (Pimephales promelas)	594 mg/L EC50 48h (Ceriodaphnia dubia)
Fenpropimorph 67564-91-4	0.327 mg/L EC50 72h (Pseudokirchneriella subcapitata)	2.23 mg/L LC50 96h (Lepomis macrochirus)	2.24 mg/L EC50 48h (Daphnia magna)
Propiconazole 60207-90-1	0.02 - 13.6 mg/l for three freshwater algae	5.3 mg/L LC50 96h (Rainbow trout)	4.8 mg/L EC50 48h (Daphnia magna)

Persistence and degradability
No information available.

Bioaccumulation
No information available.

Mobility

Chemical Name	Partition coefficient
2-ethyl hexanoic acid 149-57-5	2.7
Boric acid 10043-35-3	-0.757

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container. Empty containers must be tripled rinsed prior to disposal.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Boric acid 10043-35-3	Toxic

14. TRANSPORT INFORMATION

DOT

UN/ID no UN1760
Proper shipping name Corrosive liquid, n.o.s.
Hazard Class 8
Packing Group II
Special Provisions B2, IB2, TII, TP2, TP27
Description UN1760, Corrosive liquid, n.o.s., (aklyamine, propiconazole), 8, II
Emergency Response Guide Number 154

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Propiconazole - 60207-90-1	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Propiconazole 60207-90-1	-	X	-

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Boric acid 10043-35-3	X	-	-
Propiconazole 60207-90-1	X	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number 71406-4-70227

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Difference between SDS and EPA Pesticide label

Danger
Hazards to Humans & Domestic Animals
Corrosive - causes irreversible eye damage and skin burns
Harmful if swallowed
Harmful if absorbed through skin.
Harmful if inhaled
Avoid contact with eyes, skin and clothing
Avoid breathing vapors or mists

16. OTHER INFORMATION

Issue Date 30-Jan-2019
Revision Date 30-Apr-2020
Revision Note
No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

SAFETY DATA SHEET

1. Product and Company Identification

Product Name:	AFP Pro Finish Stain & Sealer
Product Code/Color:	609601 - Cedar Tone
Recommended Use:	Paint or related materials
Company Identification:	STANDARD PAINTS, INC. 940 S. 6th Avenue Mansfield, Texas 76063
Information Phone:	1-817-477-5060
CHEMTREC Emergency Phone:	1-800-424-9300

2. Hazards Identification

Hazards of Product

Signal Word: **DANGER**

Flammable Liquid	Category	4	Note: Material does not sustain combustion per ASTM D4206.
Aspiration Hazard	Category	1	
Eye Damage/Irritation	Category	2B	
Skin Corrosion/Irritation	Category	2	
Acute Toxicity	Category	4	Inhalation
S.T.O.T. (S.E)	Category	3	Specific Target Organ Toxicity – Single Exposure (Narcotic Effects)

HAZARD STATEMENTS:

H226	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (CNS) through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

P210	Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P260	Do not breathe dust fume, gas, mist, vapors, spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P302 + 352	IF ON SKIN: Wash with soap and water
P305 + 351 + 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical attention if you feel unwell.
P403 + 233	Store in a well-ventilated place. Keep container tightly closed.

Other Hazards: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/Information on Ingredients

Component	CAS#	% By Weight
Distillates (petroleum), hydrotreated heavy naphthenic Synonyms: Mineral oil, hydrotreated (mild) heavy naphthenic	64742-52-5	45% to 70%
Distillates (petroleum), hydrotreated light naphthenic Synonyms: Mineral oil, hydrotreated (mild) light naphthenic	64742-53-6	10% to 30%
C9-11 Alkanes Synonyms: Odorless mineral spirits, C9-11 isoparaffin	68551-16-6	7% to 13%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as trade secret. Range allows for batch variation.

4. First Aid Measures

Ingestion: Do not induce vomiting. Do not give anything to drink. Wash mouth out with water. Call 911 or poison control center immediately. If vomiting occurs, keep head below hips to prevent aspiration into the lungs. Never give anything by mouth to an unconscious person.

Inhalation: If inhaled, move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If coughing, breathing difficulty, or any other respiratory symptoms develop, seek medical attention at once.

Eyes: Check for and remove any contact lenses. Immediately flush eyes with large quantities of water and continue washing for 15 to 20 minutes. Seek medical attention if irritation or symptoms persist.

Skin: Flush with fresh water. Remove contaminated clothing, including contaminated shoes, after flushing has begun. Wash skin with soapy water. Obtain medical attention if irritation persists. Launder clothing before reuse and discard contaminated shoes.

Most Important Symptoms and Effects, Both Acute and Delayed

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes: May cause mild eye irritation, discomfort, redness, or tearing by direct product contact, mist, or vapors.

Skin: May cause mild irritation, redness, drying, or cracking.

Inhalation: Mist, vapor, or fumes may cause mild irritation to the respiratory tract.

Ingestion: May cause lung damage if swallowed or enters airways.

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED EXPOSURE

Eyes: May cause eye irritation, redness, tearing, or pain by direct product contact, mist, or vapors.

Skin: May cause skin irritation, defatting of the skin which may lead to dermatitis.

Inhalation: Mist, vapor, or fumes may cause mild irritation to the respiratory tract. Symptoms may include headache, dizziness, or drowsiness.

Ingestion: May be fatal if swallowed or enters airways.

Indication of Any Immediate Medical Attention and Special Treatment Required

Aspiration: ASPIRATION INTO THE LUNGS CAN CAUSE SEVERE LUNG DAMAGE AND IS A MEDICAL EMERGENCY, CALL 911 AND SEEK MEDICAL ATTENTION IMMEDIATELY. Never give anything by mouth to an unconscious person. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended.

General Information

If exposed or concerned, get medical attention/advice. Provide SDS to physician.

Note to Physicians

Treat symptomatically. There is no specific antidote. Inducing vomiting is contradictory because of the irritating nature of the compound.

5. Fire Fighting Measures

Suitable Extinguishing Media:

FOAM, ALCOHOL FOAM, CO_2, DRY CHEMICAL, other class B extinguishing agents. For large fires, alcohol-resistant foams are preferred. Use water fog to cool adjacent, fire-exposed containers.

Unsuitable Extinguishing Media:

Do not use water to extinguish.

Specific Hazards:

Vapors heavier than air may travel along the floor. May ignite when exposed to sparks, heat, flames, or oxidants. Hazardous decomposition of products by fire and high heat may generate toxic vapors such as carbon dioxide (CO_2), carbon monoxide (CO), and other undetermined compounds. Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Runoff may produce byproducts that are toxic to aquatic life.

Special Protective Equipment and Precautions for Firefighters:

Personal protective equipment level C recommended. Firefighters should wear NFPA-compliant structural firefighting protective equipment, including Self-Contained Breathing Apparatus (SCBA) and NFPA-compliant helmets, boots, and gloves. Remove containers from area if it can be done safely. Avoid contact with product. Decontaminate equipment and protective clothing prior to use.

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate to a safe area. Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Stay upwind of spill, and out of low areas. Ventilate closed spaces before entering. Avoid breathing vapor, gases, or mists. Wear protective clothing when handling spilled materials and/or damaged containers. Ensure proper ventilation of fumes and vapors if it can be done safely.

Methods and Materials for Containment and Clean-Up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in the immediate area). Wear protective gear appropriate to the task. Absorb liquid with non-combustible, inert material such as earth or sand. Place absorbent material in non-leaking containers; seal tightly for proper disposal. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for other regulatory information.

Small Spill: Eliminate all sources of ignition. Wear protective gear appropriate for the task. Prevent additional discharge of material and prevent liquid from entering sewers, watercourses, or low areas. Dike spill area and add non-combustible absorbent material such as clay or sand to spilled liquid. Contain spill in smallest possible area. Recover as much product as possible. Stop leak if it can be done without risk. Do not use combustible materials such as sawdust. Place absorbent material in non-leaking

containers; seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for additional regulatory information.

Large Spill: Stop flow of material, if this can be done without risk. Eliminate all sources of ignition. Prevent additional discharge of material and prevent liquid from entering sewers, waterways, basements, or low areas. Ventilate, if area is indoors, with non-mechanical ventilation or explosion-proof mechanical ventilation. Wear protective gear appropriate for the task. Dike spill area and add absorbent material to spilled liquid. Do not use combustible materials such as sawdust. Place absorbent material in non-leaking containers; seal tightly for proper disposal. Isolate hazard area and restrict entry to emergency crew. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for additional regulatory information.

Never return spills to original containers for re-use. Prevent entry into waterways, sewers, basements, or confined areas. Stop leak if you can do so without risk. Dike the spilled material, when possible.

Environmental Precautions:

If facility or operation has an “oil or hazardous substance contingency plan,” activate its procedures. This material or its byproducts may be water pollutants and should be prevented from contaminating soil or entering sewage, drainage systems, and bodies of water. The material should not be released into the environment. Do not allow material to contaminate ground water system. Prevent from entering drains. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, and any other unauthorized treatment areas, drainage systems, and natural waterways. Contact fire authorities and appropriate federal, state, and local agencies as necessary. For additional information, contact Chemtrec at 1-800-424-9300.

7. Handling and Storage

Conditions for Safe Storage:

Store for flammable liquids required per OSHA 29 CFR 1910.106. No smoking in storage area. Keep all containers tightly closed when not in use. This material can accumulate static charge which may cause sparks and become an ignition source. Use techniques to eliminate all accumulated static charge when transferring materials. Make sure all equipment is grounded. The pressure in sealed containers can increase under the influence of heat. Store out of sunlight in a cool dry place, between 59 °F and 77 °F, with adequate explosion proof ventilation. Do not store near open flame, heat, or other sources of ignition. Use only D.O.T. approved containers for storage, disposal, and transportation. Empty containers must meet 49 CFR 171.8 standards. Store separate from food products. Keep away from food, drink, animal feed, and feeding areas. Keep out of the reach of children.

Electrostatic Hazard:

Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded. Use spark-resistant tools. Use only D.O.T. approved containers. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for Recommended Practice 2003, entitled "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington DC 2005) or the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9109, Quincy MA 02269-9101.

Incompatibilities:

Avoid incompatible materials including acids, bases, and oxidizers.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: Immediately Dangerous to Life or Health Concentrations (IDLH)

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	CAS No.	ppm	mg/m^3	Skin Designation
Mineral Oil, Mist	64742-52-5, 64742-53-6		5	

U.S. OSHA Table Z-2 Air Contaminants (29 CFR 1910.1000)

Component	CAS No.	8 Hour Average	Ceiling	Max Peak	Max Duration
None Listed					

U.S. OSHA Table Z-3 Mineral Dusts (29 CFR 1910.1000)

Component	CAS No.	mppcf	mg/m^3
None Listed			

U.S. ACGIH 2022 Recommended Limits

Component	CAS No.	8 Hour TWA (mg/m^3)	STEL (mg/m^3)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5	10	

U.S. NIOSH Recommended Exposure Limit

Component	CAS No.	10 Hour TWA (mg/m^3)	STEL (mg/m^3)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5	10	1800

Cal/OSHA PEL Regulatory Limit

Component	CAS No.	8 Hour TWA (mg/m^3)	STEL (ppm)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5		

Engineering Controls

Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other protocols to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective, wear suitable personal protective equipment which performs satisfactorily and meets OSHA, NIOSH, or other recognized standards. Consult with local procedures for selection, training, inspection, and maintenance of the personal protective equipment. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Personal Protective Equipment

Respiratory Protection:

When spraying this material, it is recommended to use a NIOSH-approved organic vapor cartridge respirator or gas mask Class A1P2 (AS/NZS 1715) to keep airborne mists and vapor concentrations below the time-weighted threshold limit values. In accordance with CFR 1910.134, when working in poorly ventilated and confined spaces, use an air-purifying respirator for organic vapors and wet paint mist, a fresh air-supplying respirator, or a self-contained breathing apparatus (SCBA). Wear a dust or particle mask when sanding to prevent dust inhalation. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Skin Protection:

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact: gloves, long-sleeved shirts and pants. Impermeable chemical handling gloves for skin protection, such as nitrile type, and protective clothing are recommended to prevent skin contact.

Eye Protection:

When directly handling liquid product, eye protection is recommended. Examples of eye protection include chemical safety goggles, or chemical safety goggles in combination with a full-face shield when there is a greater risk of splash. Wear safety glasses, with splash guards, when pouring this material. Use chemical goggles when spraying this material. Contact lenses should not be worn when working with chemicals.

9. Physical and Chemical Properties

Appearance	
Physical State:	Liquid
Color:	Opaque
Odor:	Mild aromatic odor
Odor Threshold:	Not determined for this mixture.
pH	Not determined for this mixture.
Melting Point:	Not determined for this mixture.
Freezing Point:	Not determined for this mixture.
Flash Point:	165-170 °F (Pensky-Martens Closed Cup)
Evaporation Rate:	N/A
Flammability:	Material does not sustain combustion per ASTM D4206.
Fire Point:	265-270 °F (Cleveland Open Cup, ASTM D92)
Upper/Lower Flammability or Explosive Limits	
Flammability Limit % - Lower:	Not determined for this mixture.
Flammability Limit % - Upper:	Not determined for this mixture.
Explosive Limit % - Lower:	Not determined for this mixture.
Explosive Limit % - Upper:	Not determined for this mixture.
Vapor Pressure:	Not determined for this mixture.
Vapor Density:	Heavier than air
Relative Density (Specific Gravity):	0.896
Solubility in Water:	Non-Soluble
Partition Coefficient (n-octanol/water) :	N/A
Auto-Ignition Temperature:	Not determined for this mixture.
Decomposition Temperature:	N/A
Viscosity (40° mm^2/s) :	Not determined for this mixture.
Volatile Organic Compounds (VOC):	95.0 g/L
%VOC by Mass:	10.6%

10. Stability and Reactivity

Reactivity:

Not available for this mixture.

Chemical Stability:

Stable under normal temperature conditions, see recommended use and recommended storage.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Avoid excessive heat, poor ventilation, corrosive atmospheres, excessive aging, sparks, open flames, heat, hot equipment, static electricity, and other sources of ignition.

Incompatible Materials:

Reducing and oxidizing materials.

Hazardous Decomposition Products:

None expected under normal conditions. By fire and high heat, carbon dioxide (CO_2), methanol (CO), and other undetermined compounds may form during combustion.

11. Toxicological Information

Information on Likely Routes of Exposure:

Exposure to liquid and/or vapor may occur through eyes, skin, ingestion, and inhalation.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Petroleum distillates (CAS 64742-52-5, and 64742-53-6)

Eyes: May cause mild eye irritation, discomfort, redness, tearing by direct product contact, mist, or vapors.
Skin: May cause mild skin irritation, redness, drying, or cracking.
Inhalation: Mist, vapor, or fumes may cause mild irritation to respiratory tract and lungs. Symptoms may include nausea, headache, dizziness, or drowsiness.
Ingestion: May be fatal if swallowed.

C9-11 Alkanes (CAS 68551-16-6)

Eyes: May cause mild irritation, discomfort, redness, tearing by direct product contact, mist, or vapors.
Skin: May cause mild skin irritation, redness, drying, or cracking.
Inhalation: Mist, vapor, or fumes may cause irritation to nose, throat, and lungs, with coughing, wheezing, and shortness of breath. Symptoms include nausea, headache, dizziness, or drowsiness.
Ingestion: May be fatal if swallowed.

Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Causes severe eye irritation. Symptoms include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation, redness, and pain with prolonged contact.

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation. If swallowed, aspiration into the lungs could cause chemical pneumonitis or death.

C9-11 Alkanes (CAS 68551-16-6)

The vapor is irritating to the eyes and respiratory tract. Exposure to high concentrations of vapor can cause dizziness or fainting. If swallowed, aspiration into the lungs could cause chemical pneumonitis or death. Due to defatting of the skin, the substance may cause cracking or drying with long-term or repeated exposure.

Numerical Measures of Toxicity

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>5000 mg/kg

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>2000 mg/kg
Inhalation	LC_{50} Rat	2180 mg/m^3 (4h)

C9-11 Alkanes (CAS 68551-16-6)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>3000 mg/kg
Inhalation	LC_{50} Rat	>4.9 mg/L

Hazardous Chemical Lists

IARC:

Hydrotreated mineral oil (CAS 64742-52-5 and 64742-53-6)
3 - Group 3: Not classifiable as to its carcinogenicity to humans
Petroleum solvents (CAS 68551-16-6)
3 - Group 3: Not classifiable as to its carcinogenicity to humans

NTP:

Not listed.

12. Ecological Information

Environmental Fate:

No data is advisable on the adverse effects of this material on the environment. This product should be considered harmful to fish and algae upon immediate exposure. If this product is spilled, caution should be exercised to keep this product from entering any type of waterway or storm sewer. When released into the soil, this material may leach into groundwater. When released into water, acidity may be readily reduced by natural water hardness minerals.

Environmental Toxicity:

This product contains petroleum distillates (CAS 64742-52-5 and 64742-53-6), and C9-11 Alkanes (CAS 68551-16-6) which may cause oxygen depletion in waterways, are potentially toxic to water ecosystems, may be hazardous to aquatic life, and may contribute to smog.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Toxicity to fish	LC50 > 5000 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 > 1000 mg/L – Daphnia magna 48 h

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Toxicity to fish	LC50 >5000 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 > 1000 mg/L IUCLID – Daphnia magna 48 h

C9-11 Alkanes (CAS 68551-16-6)

Toxicity to fish	LC50 = 3.5 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 = 22-46 mg/L – Daphnia magna 48 h
Toxicity to algae	EC50 > 1000 mg/L – Pseudokirchneriella subcapitata 72 h

Marine Pollutant:

Not considered a marine pollutant.

Chemical Fate Information:

Not determined for this mixture.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of improper handling or disposal.

13. Disposal Considerations

Waste Disposal Method:

Collect absorbent materials and/or spilled liquid mixture into metal containers and add enough water to cover. Consult local, state, and federal hazardous waste regulations before disposing into approved hazardous waste disposal facilities. The material has been tested and found to have a flash point of 165-170 °F. Disposal of this material or its container requires compliance with applicable labeling, packaging, and record-keeping standards. For further information, contact your state, local, or federal government agency.

RCRA (Hazardous Waste):

No ingredients listed as hazardous waste according to RCRA 40 CFR Parts 261.3 U Series and P Series.

Contaminated Materials:

Eliminate ignition sources and provide good ventilation. Place contaminated material in non-leaking containers; seal tightly for proper disposal.

14. Transport Information

Proper Shipping Name:	Paint - Not restricted as hazardous.
Transportation Hazard Class:	Not regulated.
Packing Group:	Not regulated.
UN Number:	Not regulated.
Environmental Hazards:	Not considered a DOT marine pollutant.
Bulk Transport:	Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code.
Special Precautions:	Read safety instructions, SDS, and emergency procedures before handling.

15. Regulatory Information

U.S. Federal Regulations:

TSCA:

Section 8(b) Inventory
All components are listed or exempted.
Section 8(d) Health & Safety
Not listed.
Section 4a (b) Chemical Test Rules
Not listed.
Section 12(b) Export Notification
Not listed.

OSHA:

Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA:

Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA:

Hazard Category Section 304 – Indicates toxic chemical(s) subject to reporting requirements of Title III of CFR 372.
Not listed.

Hazard Category Section 311, 312 – Indicates toxic chemical(s) subject to reporting requirements of Title III of CFR 372.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
Aspiration hazard
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)
Aspiration hazard
C9-11 Alkanes (CAS 68551-16-6)
Fire hazard
Acute health hazard
Aspiration hazard

Hazard Category Section 313 – Indicates toxic chemical(s) subject to the reporting requirements of Title III and of CFR 372.
Not listed.

Clean Air Act:

Section 112 of Hazardous Air Pollutants (HAPs) List
Not listed.
Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not listed.

State Regulations

Right to Know Hazardous Substance List

Massachusetts:

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

New Jersey:

None listed.

Pennsylvania:

Mineral oil, mist (CAS 64742-52-5, 64742-53-6)

California Prop 65:

⚠ **WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other Information

Caution: Consult Safety Data Sheet prior to use. For industrial use only. Contact the manufacturer with any product-related questions.

Information Contact:

Safety and Compliance Director
Standard Paints, Inc.
940 S. 6th Avenue
Mansfield, Texas 76063

Manufacturer Disclaimer: The information and recommendations contained herein are provided in good faith and are accurate to the best of our knowledge as of the date of preparation. We do not suggest or guarantee that any hazards listed herein are the only ones which exist and we make no representation of its completeness or accuracy. Standard Paints, Inc. makes no warranty or representations of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances and/or materials. Users have the sole responsibility to determine the suitability of the materials for any use, the manner of use contemplated, and should consider this data only as supplement to other information gathered by the users. Users must make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of this product, the safety and health of employees and customers, and the protection of the environment. User must meet all applicable safety and health standards. Since the use of this information and conditions of use of the product are not within our control, we make no warranty or representations of any kind, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose with respect to this information or the product it describes. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer warranty against patent infringement.

SAFETY DATA SHEET

1. Product and Company Identification

Product Name:	AFP Pro Finish Stain & Sealer
Product Code/Color:	609603 - Leatherwood
Recommended Use:	Paint or related materials
Company Identification:	STANDARD PAINTS, INC. 940 S. 6th Avenue Mansfield, Texas 76063
Information Phone:	1-817-477-5060
CHEMTREC Emergency Phone:	1-800-424-9300

2. Hazards Identification

Hazards of Product

Signal Word: **DANGER**

Flammable Liquid	Category	4	Note: Material does not sustain combustion per ASTM D4206.
Aspiration Hazard	Category	1	
Eye Damage/Irritation	Category	2B	
Skin Corrosion/Irritation	Category	2	
Acute Toxicity	Category	4	Inhalation
S.T.O.T. (S.E)	Category	3	Specific Target Organ Toxicity – Single Exposure (Narcotic Effects)

HAZARD STATEMENTS:

H226	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (CNS) through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

P210	Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P260	Do not breathe dust fume, gas, mist, vapors, spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P302 + 352	IF ON SKIN: Wash with soap and water
P305 + 351 + 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical attention if you feel unwell.
P403 + 233	Store in a well-ventilated place. Keep container tightly closed.

Other Hazards: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/Information on Ingredients

Component	CAS#	% By Weight
Distillates (petroleum), hydrotreated heavy naphthenic Synonyms: Mineral oil, hydrotreated (mild) heavy naphthenic	64742-52-5	45% to 70%
Distillates (petroleum), hydrotreated light naphthenic Synonyms: Mineral oil, hydrotreated (mild) light naphthenic	64742-53-6	10% to 30%
C9-11 Alkanes Synonyms: Odorless mineral spirits, C9-11 isoparaffin	68551-16-6	7% to 13%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as trade secret. Range allows for batch variation.

4. First Aid Measures

Ingestion: Do not induce vomiting. Do not give anything to drink. Wash mouth out with water. Call 911 or poison control center immediately. If vomiting occurs, keep head below hips to prevent aspiration into the lungs. Never give anything by mouth to an unconscious person.

Inhalation: If inhaled, move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If coughing, breathing difficulty, or any other respiratory symptoms develop, seek medical attention at once.

Eyes: Check for and remove any contact lenses. Immediately flush eyes with large quantities of water and continue washing for 15 to 20 minutes. Seek medical attention if irritation or symptoms persist.

Skin: Flush with fresh water. Remove contaminated clothing, including contaminated shoes, after flushing has begun. Wash skin with soapy water. Obtain medical attention if irritation persists. Launder clothing before reuse and discard contaminated shoes.

Most Important Symptoms and Effects, Both Acute and Delayed

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes: May cause mild eye irritation, discomfort, redness, or tearing by direct product contact, mist, or vapors.

Skin: May cause mild irritation, redness, drying, or cracking.

Inhalation: Mist, vapor, or fumes may cause mild irritation to the respiratory tract.

Ingestion: May cause lung damage if swallowed or enters airways.

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED EXPOSURE

Eyes: May cause eye irritation, redness, tearing, or pain by direct product contact, mist, or vapors.

Skin: May cause skin irritation, defatting of the skin which may lead to dermatitis.

Inhalation: Mist, vapor, or fumes may cause mild irritation to the respiratory tract. Symptoms may include headache, dizziness, or drowsiness.

Ingestion: May be fatal if swallowed or enters airways.

Indication of Any Immediate Medical Attention and Special Treatment Required

Aspiration: ASPIRATION INTO THE LUNGS CAN CAUSE SEVERE LUNG DAMAGE AND IS A MEDICAL EMERGENCY, CALL 911 AND SEEK MEDICAL ATTENTION IMMEDIATELY. Never give anything by mouth to an unconscious person. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended.

General Information

If exposed or concerned, get medical attention/advice. Provide SDS to physician.

Note to Physicians

Treat symptomatically. There is no specific antidote. Inducing vomiting is contradictory because of the irritating nature of the compound.

5. Fire Fighting Measures

Suitable Extinguishing Media:

FOAM, ALCOHOL FOAM, CO_2, DRY CHEMICAL, other class B extinguishing agents. For large fires, alcohol-resistant foams are preferred. Use water fog to cool adjacent, fire-exposed containers.

Unsuitable Extinguishing Media:

Do not use water to extinguish.

Specific Hazards:

Vapors heavier than air may travel along the floor. May ignite when exposed to sparks, heat, flames, or oxidants. Hazardous decomposition of products by fire and high heat may generate toxic vapors such as carbon dioxide (CO_2), carbon monoxide (CO), and other undetermined compounds. Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Runoff may produce byproducts that are toxic to aquatic life.

Special Protective Equipment and Precautions for Firefighters:

Personal protective equipment level C recommended. Firefighters should wear NFPA-compliant structural firefighting protective equipment, including Self-Contained Breathing Apparatus (SCBA) and NFPA-compliant helmets, boots, and gloves. Remove containers from area if it can be done safely. Avoid contact with product. Decontaminate equipment and protective clothing prior to use.

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate to a safe area. Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Stay upwind of spill, and out of low areas. Ventilate closed spaces before entering. Avoid breathing vapor, gases, or mists. Wear protective clothing when handling spilled materials and/or damaged containers. Ensure proper ventilation of fumes and vapors if it can be done safely.

Methods and Materials for Containment and Clean-Up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in the immediate area). Wear protective gear appropriate to the task. Absorb liquid with non-combustible, inert material such as earth or sand. Place absorbent material in non-leaking containers; seal tightly for proper disposal. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for other regulatory information.

Small Spill: Eliminate all sources of ignition. Wear protective gear appropriate for the task. Prevent additional discharge of material and prevent liquid from entering sewers, watercourses, or low areas. Dike spill area and add non-combustible absorbent material such as clay or sand to spilled liquid. Contain spill in smallest possible area. Recover as much product as possible. Stop leak if it can be done without risk. Do not use combustible materials such as sawdust. Place absorbent material in non-leaking

containers; seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for additional regulatory information.

Large Spill: Stop flow of material, if this can be done without risk. Eliminate all sources of ignition. Prevent additional discharge of material and prevent liquid from entering sewers, waterways, basements, or low areas. Ventilate, if area is indoors, with non-mechanical ventilation or explosion-proof mechanical ventilation. Wear protective gear appropriate for the task. Dike spill area and add absorbent material to spilled liquid. Do not use combustible materials such as sawdust. Place absorbent material in non-leaking containers; seal tightly for proper disposal. Isolate hazard area and restrict entry to emergency crew. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for additional regulatory information.

Never return spills to original containers for re-use. Prevent entry into waterways, sewers, basements, or confined areas. Stop leak if you can do so without risk. Dike the spilled material, when possible.

Environmental Precautions:

If facility or operation has an “oil or hazardous substance contingency plan,” activate its procedures. This material or its byproducts may be water pollutants and should be prevented from contaminating soil or entering sewage, drainage systems, and bodies of water. The material should not be released into the environment. Do not allow material to contaminate ground water system. Prevent from entering drains. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, and any other unauthorized treatment areas, drainage systems, and natural waterways. Contact fire authorities and appropriate federal, state, and local agencies as necessary. For additional information, contact Chemtrec at 1-800-424-9300.

7. Handling and Storage

Conditions for Safe Storage:

Store for flammable liquids required per OSHA 29 CFR 1910.106. No smoking in storage area. Keep all containers tightly closed when not in use. This material can accumulate static charge which may cause sparks and become an ignition source. Use techniques to eliminate all accumulated static charge when transferring materials. Make sure all equipment is grounded. The pressure in sealed containers can increase under the influence of heat. Store out of sunlight in a cool dry place, between 59 °F and 77 °F, with adequate explosion proof ventilation. Do not store near open flame, heat, or other sources of ignition. Use only D.O.T. approved containers for storage, disposal, and transportation. Empty containers must meet 49 CFR 171.8 standards. Store separate from food products. Keep away from food, drink, animal feed, and feeding areas. Keep out of the reach of children.

Electrostatic Hazard:

Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded. Use spark-resistant tools. Use only D.O.T. approved containers. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for Recommended Practice 2003, entitled "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington DC 2005) or the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9109, Quincy MA 02269-9101.

Incompatibilities:

Avoid incompatible materials including acids, bases, and oxidizers.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: Immediately Dangerous to Life or Health Concentrations (IDLH)

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	CAS No.	ppm	mg/m^3	Skin Designation
Mineral Oil, Mist	64742-52-5, 64742-53-6		5	

U.S. OSHA Table Z-2 Air Contaminants (29 CFR 1910.1000)

Component	CAS No.	8 Hour Average	Ceiling	Max Peak	Max Duration
None Listed					

U.S. OSHA Table Z-3 Mineral Dusts (29 CFR 1910.1000)

Component	CAS No.	mppcf	mg/m^3
None Listed			

U.S. ACGIH 2022 Recommended Limits

Component	CAS No.	8 Hour TWA (mg/m^3)	STEL (mg/m^3)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5	10	

U.S. NIOSH Recommended Exposure Limit

Component	CAS No.	10 Hour TWA (mg/m^3)	STEL (mg/m^3)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5	10	1800

Cal/OSHA PEL Regulatory Limit

Component	CAS No.	8 Hour TWA (mg/m^3)	STEL (ppm)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5		

Engineering Controls

Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other protocols to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective, wear suitable personal protective equipment which performs satisfactorily and meets OSHA, NIOSH, or other recognized standards. Consult with local procedures for selection, training, inspection, and maintenance of the personal protective equipment. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Personal Protective Equipment

Respiratory Protection:

When spraying this material, it is recommended to use a NIOSH-approved organic vapor cartridge respirator or gas mask Class A1P2 (AS/NZS 1715) to keep airborne mists and vapor concentrations below the time-weighted threshold limit values. In accordance with CFR 1910.134, when working in poorly ventilated and confined spaces, use an air-purifying respirator for organic vapors and wet paint mist, a fresh air-supplying respirator, or a self-contained breathing apparatus (SCBA). Wear a dust or particle mask when sanding to prevent dust inhalation. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Skin Protection:

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact: gloves, long-sleeved shirts and pants. Impermeable chemical handling gloves for skin protection, such as nitrile type, and protective clothing are recommended to prevent skin contact.

Eye Protection:

When directly handling liquid product, eye protection is recommended. Examples of eye protection include chemical safety goggles, or chemical safety goggles in combination with a full-face shield when there is a greater risk of splash. Wear safety glasses, with splash guards, when pouring this material. Use chemical goggles when spraying this material. Contact lenses should not be worn when working with chemicals.

9. Physical and Chemical Properties

Appearance	
Physical State:	Liquid
Color:	Opaque
Odor:	Mild aromatic odor
Odor Threshold:	Not determined for this mixture.
pH	Not determined for this mixture.
Melting Point:	Not determined for this mixture.
Freezing Point:	Not determined for this mixture.
Flash Point:	165-170 °F (Pensky-Martens Closed Cup)
Evaporation Rate:	N/A
Flammability:	Material does not sustain combustion per ASTM D4206.
Fire Point:	265-270 °F (Cleveland Open Cup, ASTM D92)
Upper/Lower Flammability or Explosive Limits	
Flammability Limit % - Lower:	Not determined for this mixture.
Flammability Limit % - Upper:	Not determined for this mixture.
Explosive Limit % - Lower:	Not determined for this mixture.
Explosive Limit % - Upper:	Not determined for this mixture.
Vapor Pressure:	Not determined for this mixture.
Vapor Density:	Heavier than air
Relative Density (Specific Gravity):	0.895
Solubility in Water:	Non-Soluble
Partition Coefficient (n-octanol/water) :	N/A
Auto-Ignition Temperature:	Not determined for this mixture.
Decomposition Temperature:	N/A
Viscosity (40° mm^2/s) :	Not determined for this mixture.
Volatile Organic Compounds (VOC):	94.4 g/L
%VOC by Mass:	10.6%

10. Stability and Reactivity

Reactivity:

Not available for this mixture.

Chemical Stability:

Stable under normal temperature conditions, see recommended use and recommended storage.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Avoid excessive heat, poor ventilation, corrosive atmospheres, excessive aging, sparks, open flames, heat, hot equipment, static electricity, and other sources of ignition.

Incompatible Materials:

Reducing and oxidizing materials.

Hazardous Decomposition Products:

None expected under normal conditions. By fire and high heat, carbon dioxide (CO_2), methanol (CO), and other undetermined compounds may form during combustion.

11. Toxicological Information

Information on Likely Routes of Exposure:

Exposure to liquid and/or vapor may occur through eyes, skin, ingestion, and inhalation.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Petroleum distillates (CAS 64742-52-5, and 64742-53-6)

Eyes: May cause mild eye irritation, discomfort, redness, tearing by direct product contact, mist, or vapors.
Skin: May cause mild skin irritation, redness, drying, or cracking.
Inhalation: Mist, vapor, or fumes may cause mild irritation to respiratory tract and lungs. Symptoms may include nausea, headache, dizziness, or drowsiness.
Ingestion: May be fatal if swallowed.

C9-11 Alkanes (CAS 68551-16-6)

Eyes: May cause mild irritation, discomfort, redness, tearing by direct product contact, mist, or vapors.
Skin: May cause mild skin irritation, redness, drying, or cracking.
Inhalation: Mist, vapor, or fumes may cause irritation to nose, throat, and lungs, with coughing, wheezing, and shortness of breath. Symptoms include nausea, headache, dizziness, or drowsiness.
Ingestion: May be fatal if swallowed.

Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Causes severe eye irritation. Symptoms include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation, redness, and pain with prolonged contact.

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation. If swallowed, aspiration into the lungs could cause chemical pneumonitis or death.

C9-11 Alkanes (CAS 68551-16-6)

The vapor is irritating to the eyes and respiratory tract. Exposure to high concentrations of vapor can cause dizziness or fainting. If swallowed, aspiration into the lungs could cause chemical pneumonitis or death. Due to defatting of the skin, the substance may cause cracking or drying with long-term or repeated exposure.

Numerical Measures of Toxicity

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>5000 mg/kg

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>2000 mg/kg
Inhalation	LC_{50} Rat	2180 mg/m^3 (4h)

C9-11 Alkanes (CAS 68551-16-6)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>3000 mg/kg
Inhalation	LC_{50} Rat	>4.9 mg/L

Hazardous Chemical Lists

IARC:

Hydrotreated mineral oil (CAS 64742-52-5 and 64742-53-6)
3 - Group 3: Not classifiable as to its carcinogenicity to humans
Petroleum solvents (CAS 68551-16-6)
3 - Group 3: Not classifiable as to its carcinogenicity to humans

NTP:

Not listed.

12. Ecological Information

Environmental Fate:

No data is advisable on the adverse effects of this material on the environment. This product should be considered harmful to fish and algae upon immediate exposure. If this product is spilled, caution should be exercised to keep this product from entering any type of waterway or storm sewer. When released into the soil, this material may leach into groundwater. When released into water, acidity may be readily reduced by natural water hardness minerals.

Environmental Toxicity:

This product contains petroleum distillates (CAS 64742-52-5 and 64742-53-6), and C9-11 Alkanes (CAS 68551-16-6) which may cause oxygen depletion in waterways, are potentially toxic to water ecosystems, may be hazardous to aquatic life, and may contribute to smog.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Toxicity to fish	LC50 > 5000 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 > 1000 mg/L – Daphnia magna 48 h

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Toxicity to fish	LC50 >5000 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 > 1000 mg/L IUCLID – Daphnia magna 48 h

C9-11 Alkanes (CAS 68551-16-6)

Toxicity to fish	LC50 = 3.5 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 = 22-46 mg/L – Daphnia magna 48 h
Toxicity to algae	EC50 > 1000 mg/L – Pseudokirchneriella subcapitata 72 h

Marine Pollutant:

Not considered a marine pollutant.

Chemical Fate Information:

Not determined for this mixture.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of improper handling or disposal.

13. Disposal Considerations

Waste Disposal Method:

Collect absorbent materials and/or spilled liquid mixture into metal containers and add enough water to cover. Consult local, state, and federal hazardous waste regulations before disposing into approved hazardous waste disposal facilities. The material has been tested and found to have a flash point of 165-170 °F. Disposal of this material or its container requires compliance with applicable labeling, packaging, and record-keeping standards. For further information, contact your state, local, or federal government agency.

RCRA (Hazardous Waste):

No ingredients listed as hazardous waste according to RCRA 40 CFR Parts 261.3 U Series and P Series.

Contaminated Materials:

Eliminate ignition sources and provide good ventilation. Place contaminated material in non-leaking containers; seal tightly for proper disposal.

14. Transport Information

Proper Shipping Name:	Paint - Not restricted as hazardous.
Transportation Hazard Class:	Not regulated.
Packing Group:	Not regulated.
UN Number:	Not regulated.
Environmental Hazards:	Not considered a DOT marine pollutant.
Bulk Transport:	Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code.
Special Precautions:	Read safety instructions, SDS, and emergency procedures before handling.

15. Regulatory Information

U.S. Federal Regulations:

TSCA:

Section 8(b) Inventory
All components are listed or exempted.
Section 8(d) Health & Safety
Not listed.
Section 4a (b) Chemical Test Rules
Not listed.
Section 12(b) Export Notification
Not listed.

OSHA:

Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA:

Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA:

Hazard Category Section 304 – Indicates toxic chemical(s) subject to reporting requirements of Title III of CFR 372.
Not listed.

Hazard Category Section 311, 312 – Indicates toxic chemical(s) subject to reporting requirements of Title III of CFR 372.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
Aspiration hazard
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)
Aspiration hazard
C9-11 Alkanes (CAS 68551-16-6)
Fire hazard
Acute health hazard
Aspiration hazard

Hazard Category Section 313 – Indicates toxic chemical(s) subject to the reporting requirements of Title III and of CFR 372.
Not listed.

Clean Air Act:

Section 112 of Hazardous Air Pollutants (HAPs) List
Not listed.
Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not listed.

State Regulations

Right to Know Hazardous Substance List

Massachusetts:

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

New Jersey:

None listed.

Pennsylvania:

Mineral oil, mist (CAS 64742-52-5, 64742-53-6)

California Prop 65:

⚠ **WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other Information

Caution: Consult Safety Data Sheet prior to use. For industrial use only. Contact the manufacturer with any product-related questions.

Information Contact:

Safety and Compliance Director
Standard Paints, Inc.
940 S. 6th Avenue
Mansfield, Texas 76063

Manufacturer Disclaimer: The information and recommendations contained herein are provided in good faith and are accurate to the best of our knowledge as of the date of preparation. We do not suggest or guarantee that any hazards listed herein are the only ones which exist and we make no representation of its completeness or accuracy. Standard Paints, Inc. makes no warranty or representations of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances and/or materials. Users have the sole responsibility to determine the suitability of the materials for any use, the manner of use contemplated, and should consider this data only as supplement to other information gathered by the users. Users must make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of this product, the safety and health of employees and customers, and the protection of the environment. User must meet all applicable safety and health standards. Since the use of this information and conditions of use of the product are not within our control, we make no warranty or representations of any kind, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose with respect to this information or the product it describes. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer warranty against patent infringement.

SAFETY DATA SHEET

1. Product and Company Identification

Product Name:	AFP Pro Finish Stain & Sealer
Product Code/Color:	609604 - Oxford Brown
Recommended Use:	Paint or related materials
Company Identification:	STANDARD PAINTS, INC. 940 S. 6th Avenue Mansfield, Texas 76063
Information Phone:	1-817-477-5060
CHEMTREC Emergency Phone:	1-800-424-9300

2. Hazards Identification

Hazards of Product

Signal Word: **DANGER**

Flammable Liquid	Category	4	Note: Material does not sustain combustion per ASTM D4206.
Aspiration Hazard	Category	1	
Eye Damage/Irritation	Category	2B	
Skin Corrosion/Irritation	Category	2	
Acute Toxicity	Category	4	Inhalation
S.T.O.T. (S.E)	Category	3	Specific Target Organ Toxicity – Single Exposure (Narcotic Effects)

HAZARD STATEMENTS:

H226	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs (CNS) through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

P210	Keep away from heat, hot surface, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P260	Do not breathe dust fume, gas, mist, vapors, spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.
P302 + 352	IF ON SKIN: Wash with soap and water
P305 + 351 + 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical attention if you feel unwell.
P403 + 233	Store in a well-ventilated place. Keep container tightly closed.

Other Hazards: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

3. Composition/Information on Ingredients

Component	CAS#	% By Weight
Distillates (petroleum), hydrotreated heavy naphthenic Synonyms: Mineral oil, hydrotreated (mild) heavy naphthenic	64742-52-5	45% to 70%
Distillates (petroleum), hydrotreated light naphthenic Synonyms: Mineral oil, hydrotreated (mild) light naphthenic	64742-53-6	10% to 30%
C9-11 Alkanes Synonyms: Odorless mineral spirits, C9-11 isoparaffin	68551-16-6	7% to 13%

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as trade secret. Range allows for batch variation.

4. First Aid Measures

Ingestion: Do not induce vomiting. Do not give anything to drink. Wash mouth out with water. Call 911 or poison control center immediately. If vomiting occurs, keep head below hips to prevent aspiration into the lungs. Never give anything by mouth to an unconscious person.

Inhalation: If inhaled, move to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. If coughing, breathing difficulty, or any other respiratory symptoms develop, seek medical attention at once.

Eyes: Check for and remove any contact lenses. Immediately flush eyes with large quantities of water and continue washing for 15 to 20 minutes. Seek medical attention if irritation or symptoms persist.

Skin: Flush with fresh water. Remove contaminated clothing, including contaminated shoes, after flushing has begun. Wash skin with soapy water. Obtain medical attention if irritation persists. Launder clothing before reuse and discard contaminated shoes.

Most Important Symptoms and Effects, Both Acute and Delayed

ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes: May cause mild eye irritation, discomfort, redness, or tearing by direct product contact, mist, or vapors.

Skin: May cause mild irritation, redness, drying, or cracking.

Inhalation: Mist, vapor, or fumes may cause mild irritation to the respiratory tract.

Ingestion: May cause lung damage if swallowed or enters airways.

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED EXPOSURE

Eyes: May cause eye irritation, redness, tearing, or pain by direct product contact, mist, or vapors.

Skin: May cause skin irritation, defatting of the skin which may lead to dermatitis.

Inhalation: Mist, vapor, or fumes may cause mild irritation to the respiratory tract. Symptoms may include headache, dizziness, or drowsiness.

Ingestion: May be fatal if swallowed or enters airways.

Indication of Any Immediate Medical Attention and Special Treatment Required

Aspiration: ASPIRATION INTO THE LUNGS CAN CAUSE SEVERE LUNG DAMAGE AND IS A MEDICAL EMERGENCY, CALL 911 AND SEEK MEDICAL ATTENTION IMMEDIATELY. Never give anything by mouth to an unconscious person. If victim is drowsy or unconscious and vomiting, place on the left side with the head down. If possible, do not leave victim unattended.

General Information

If exposed or concerned, get medical attention/advice. Provide SDS to physician.

Note to Physicians

Treat symptomatically. There is no specific antidote. Inducing vomiting is contradictory because of the irritating nature of the compound.

5. Fire Fighting Measures

Suitable Extinguishing Media:

FOAM, ALCOHOL FOAM, CO_2, DRY CHEMICAL, other class B extinguishing agents. For large fires, alcohol-resistant foams are preferred. Use water fog to cool adjacent, fire-exposed containers.

Unsuitable Extinguishing Media:

Do not use water to extinguish.

Specific Hazards:

Vapors heavier than air may travel along the floor. May ignite when exposed to sparks, heat, flames, or oxidants. Hazardous decomposition of products by fire and high heat may generate toxic vapors such as carbon dioxide (CO_2), carbon monoxide (CO), and other undetermined compounds. Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Runoff may produce byproducts that are toxic to aquatic life.

Special Protective Equipment and Precautions for Firefighters:

Personal protective equipment level C recommended. Firefighters should wear NFPA-compliant structural firefighting protective equipment, including Self-Contained Breathing Apparatus (SCBA) and NFPA-compliant helmets, boots, and gloves. Remove containers from area if it can be done safely. Avoid contact with product. Decontaminate equipment and protective clothing prior to use.

6. Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate to a safe area. Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained. Stay upwind of spill, and out of low areas. Ventilate closed spaces before entering. Avoid breathing vapor, gases, or mists. Wear protective clothing when handling spilled materials and/or damaged containers. Ensure proper ventilation of fumes and vapors if it can be done safely.

Methods and Materials for Containment and Clean-Up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in the immediate area). Wear protective gear appropriate to the task. Absorb liquid with non-combustible, inert material such as earth or sand. Place absorbent material in non-leaking containers; seal tightly for proper disposal. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for other regulatory information.

Small Spill: Eliminate all sources of ignition. Wear protective gear appropriate for the task. Prevent additional discharge of material and prevent liquid from entering sewers, watercourses, or low areas. Dike spill area and add non-combustible absorbent material such as clay or sand to spilled liquid. Contain spill in smallest possible area. Recover as much product as possible. Stop leak if it can be done without risk. Do not use combustible materials such as sawdust. Place absorbent material in non-leaking

containers; seal tightly for proper disposal. Clean surface thoroughly to remove residual contamination. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for additional regulatory information.

Large Spill: Stop flow of material, if this can be done without risk. Eliminate all sources of ignition. Prevent additional discharge of material and prevent liquid from entering sewers, waterways, basements, or low areas. Ventilate, if area is indoors, with non-mechanical ventilation or explosion-proof mechanical ventilation. Wear protective gear appropriate for the task. Dike spill area and add absorbent material to spilled liquid. Do not use combustible materials such as sawdust. Place absorbent material in non-leaking containers; seal tightly for proper disposal. Isolate hazard area and restrict entry to emergency crew. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Consult an expert on disposal of the material and ensure conformity to local disposal regulations. See Section 15 for additional regulatory information.

Never return spills to original containers for re-use. Prevent entry into waterways, sewers, basements, or confined areas. Stop leak if you can do so without risk. Dike the spilled material, when possible.

Environmental Precautions:

If facility or operation has an “oil or hazardous substance contingency plan,” activate its procedures. This material or its byproducts may be water pollutants and should be prevented from contaminating soil or entering sewage, drainage systems, and bodies of water. The material should not be released into the environment. Do not allow material to contaminate ground water system. Prevent from entering drains. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, and any other unauthorized treatment areas, drainage systems, and natural waterways. Contact fire authorities and appropriate federal, state, and local agencies as necessary. For additional information, contact Chemtrec at 1-800-424-9300.

7. Handling and Storage

Conditions for Safe Storage:

Store for flammable liquids required per OSHA 29 CFR 1910.106. No smoking in storage area. Keep all containers tightly closed when not in use. This material can accumulate static charge which may cause sparks and become an ignition source. Use techniques to eliminate all accumulated static charge when transferring materials. Make sure all equipment is grounded. The pressure in sealed containers can increase under the influence of heat. Store out of sunlight in a cool dry place, between 59 °F and 77 °F, with adequate explosion proof ventilation. Do not store near open flame, heat, or other sources of ignition. Use only D.O.T. approved containers for storage, disposal, and transportation. Empty containers must meet 49 CFR 171.8 standards. Store separate from food products. Keep away from food, drink, animal feed, and feeding areas. Keep out of the reach of children.

Electrostatic Hazard:

Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded. Use spark-resistant tools. Use only D.O.T. approved containers. Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for Recommended Practice 2003, entitled "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington DC 2005) or the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9109, Quincy MA 02269-9101.

Incompatibilities:

Avoid incompatible materials including acids, bases, and oxidizers.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits: Immediately Dangerous to Life or Health Concentrations (IDLH)

U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	CAS No.	ppm	mg/m^3	Skin Designation
Mineral Oil, Mist	64742-52-5, 64742-53-6		5	

U.S. OSHA Table Z-2 Air Contaminants (29 CFR 1910.1000)

Component	CAS No.	8 Hour Average	Ceiling	Max Peak	Max Duration
None Listed					

U.S. OSHA Table Z-3 Mineral Dusts (29 CFR 1910.1000)

Component	CAS No.	mppcf	mg/m^3
None Listed			

U.S. ACGIH 2022 Recommended Limits

Component	CAS No.	8 Hour TWA (mg/m^3)	STEL (mg/m^3)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5	10	

U.S. NIOSH Recommended Exposure Limit

Component	CAS No.	10 Hour TWA (mg/m^3)	STEL (mg/m^3)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5	10	1800

Cal/OSHA PEL Regulatory Limit

Component	CAS No.	8 Hour TWA (mg/m^3)	STEL (ppm)	CEIL (mg/m^3)
Mineral Oil, Mist	64742-52-5, 64742-53-6	5		

Engineering Controls

Use appropriate engineering controls such as process enclosures, local exhaust ventilation, or other protocols to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective, wear suitable personal protective equipment which performs satisfactorily and meets OSHA, NIOSH, or other recognized standards. Consult with local procedures for selection, training, inspection, and maintenance of the personal protective equipment. Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Personal Protective Equipment

Respiratory Protection:

When spraying this material, it is recommended to use a NIOSH-approved organic vapor cartridge respirator or gas mask Class A1P2 (AS/NZS 1715) to keep airborne mists and vapor concentrations below the time-weighted threshold limit values. In accordance with CFR 1910.134, when working in poorly ventilated and confined spaces, use an air-purifying respirator for organic vapors and wet paint mist, a fresh air-supplying respirator, or a self-contained breathing apparatus (SCBA). Wear a dust or particle mask when sanding to prevent dust inhalation. Observe OSHA regulations for respirator use (29 CFR 1910.134).

Skin Protection:

Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact: gloves, long-sleeved shirts and pants. Impermeable chemical handling gloves for skin protection, such as nitrile type, and protective clothing are recommended to prevent skin contact.

Eye Protection:

When directly handling liquid product, eye protection is recommended. Examples of eye protection include chemical safety goggles, or chemical safety goggles in combination with a full-face shield when there is a greater risk of splash. Wear safety glasses, with splash guards, when pouring this material. Use chemical goggles when spraying this material. Contact lenses should not be worn when working with chemicals.

9. Physical and Chemical Properties

Appearance	
Physical State:	Liquid
Color:	Opaque
Odor:	Mild aromatic odor
Odor Threshold:	Not determined for this mixture.
pH	Not determined for this mixture.
Melting Point:	Not determined for this mixture.
Freezing Point:	Not determined for this mixture.
Flash Point:	165-170°F (Pensky-Martens Closed Cup)
Evaporation Rate:	N/A
Flammability:	Material does not sustain combustion per ASTM D4206.
Fire Point:	265-270 °F (Cleveland Open Cup, ASTM D92)
Upper/Lower Flammability or Explosive Limits	
Flammability Limit % - Lower:	Not determined for this mixture.
Flammability Limit % - Upper:	Not determined for this mixture.
Explosive Limit % - Lower:	Not determined for this mixture.
Explosive Limit % - Upper:	Not determined for this mixture.
Vapor Pressure:	Not determined for this mixture.
Vapor Density:	Heavier than air
Relative Density (Specific Gravity):	0.898
Solubility in Water:	Non-Soluble
Partition Coefficient (n-octanol/water) :	N/A
Auto-Ignition Temperature:	Not determined for this mixture.
Decomposition Temperature:	N/A
Viscosity (40° mm^2/s) :	Not determined for this mixture.
Volatile Organic Compounds (VOC):	94.9 g/L
%VOC by Mass:	10.6%

10. Stability and Reactivity

Reactivity:

Not available for this mixture.

Chemical Stability:

Stable under normal temperature conditions, see recommended use and recommended storage.

Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

Conditions to Avoid:

Avoid excessive heat, poor ventilation, corrosive atmospheres, excessive aging, sparks, open flames, heat, hot equipment, static electricity, and other sources of ignition.

Incompatible Materials:

Reducing and oxidizing materials.

Hazardous Decomposition Products:

None expected under normal conditions. By fire and high heat, carbon dioxide (CO_2), methanol (CO), and other undetermined compounds may form during combustion.

11. Toxicological Information

Information on Likely Routes of Exposure:

Exposure to liquid and/or vapor may occur through eyes, skin, ingestion, and inhalation.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

Petroleum distillates (CAS 64742-52-5, and 64742-53-6)

Eyes: May cause mild eye irritation, discomfort, redness, tearing by direct product contact, mist, or vapors.
Skin: May cause mild skin irritation, redness, drying, or cracking.
Inhalation: Mist, vapor, or fumes may cause mild irritation to respiratory tract and lungs. Symptoms may include nausea, headache, dizziness, or drowsiness.
Ingestion: May be fatal if swallowed.

C9-11 Alkanes (CAS 68551-16-6)

Eyes: May cause mild irritation, discomfort, redness, tearing by direct product contact, mist, or vapors.
Skin: May cause mild skin irritation, redness, drying, or cracking.
Inhalation: Mist, vapor, or fumes may cause irritation to nose, throat, and lungs, with coughing, wheezing, and shortness of breath. Symptoms include nausea, headache, dizziness, or drowsiness.
Ingestion: May be fatal if swallowed.

Delayed, Immediate, and Chronic Effects from Short and Long Term Exposure

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Causes severe eye irritation. Symptoms include stinging, tearing, redness, swelling, and blurred vision. May cause skin irritation, redness, and pain with prolonged contact.

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation. If swallowed, aspiration into the lungs could cause chemical pneumonitis or death.

C9-11 Alkanes (CAS 68551-16-6)

The vapor is irritating to the eyes and respiratory tract. Exposure to high concentrations of vapor can cause dizziness or fainting. If swallowed, aspiration into the lungs could cause chemical pneumonitis or death. Due to defatting of the skin, the substance may cause cracking or drying with long-term or repeated exposure.

Numerical Measures of Toxicity

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>5000 mg/kg

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>2000 mg/kg
Inhalation	LC_{50} Rat	2180 mg/m^3 (4h)

C9-11 Alkanes (CAS 68551-16-6)

Oral	LD_{50} Rat	>5000 mg/kg
Dermal	LD_{50} Rabbit	>3000 mg/kg
Inhalation	LC_{50} Rat	>4.9 mg/L

Hazardous Chemical Lists

IARC:

Hydrotreated mineral oil (CAS 64742-52-5 and 64742-53-6)
3 - Group 3: Not classifiable as to its carcinogenicity to humans
Petroleum solvents (CAS 68551-16-6)
3 - Group 3: Not classifiable as to its carcinogenicity to humans

NTP:

Not listed.

12. Ecological Information

Environmental Fate:

No data is advisable on the adverse effects of this material on the environment. This product should be considered harmful to fish and algae upon immediate exposure. If this product is spilled, caution should be exercised to keep this product from entering any type of waterway or storm sewer. When released into the soil, this material may leach into groundwater. When released into water, acidity may be readily reduced by natural water hardness minerals.

Environmental Toxicity:

This product contains petroleum distillates (CAS 64742-52-5 and 64742-53-6), and C9-11 Alkanes (CAS 68551-16-6) which may cause oxygen depletion in waterways, are potentially toxic to water ecosystems, may be hazardous to aquatic life, and may contribute to smog.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

Toxicity to fish	LC50 > 5000 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 > 1000 mg/L – Daphnia magna 48 h

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

Toxicity to fish	LC50 >5000 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 > 1000 mg/L IUCLID – Daphnia magna 48 h

C9-11 Alkanes (CAS 68551-16-6)

Toxicity to fish	LC50 = 3.5 mg/L – Oncorhynchus mykiss 96 h
Toxicity to daphnia	EC50 = 22-46 mg/L – Daphnia magna 48 h
Toxicity to algae	EC50 > 1000 mg/L – Pseudokirchneriella subcapitata 72 h

Marine Pollutant:

Not considered a marine pollutant.

Chemical Fate Information:

Not determined for this mixture.

Other Adverse Effects:

An environmental hazard cannot be excluded in the event of improper handling or disposal.

13. Disposal Considerations

Waste Disposal Method:

Collect absorbent materials and/or spilled liquid mixture into metal containers and add enough water to cover. Consult local, state, and federal hazardous waste regulations before disposing into approved hazardous waste disposal facilities. The material has been tested and found to have a flash point of 165-170 °F. Disposal of this material or its container requires compliance with applicable labeling, packaging, and record-keeping standards. For further information, contact your state, local, or federal government agency.

RCRA (Hazardous Waste):

No ingredients listed as hazardous waste according to RCRA 40 CFR Parts 261.3 U Series and P Series.

Contaminated Materials:

Eliminate ignition sources and provide good ventilation. Place contaminated material in non-leaking containers; seal tightly for proper disposal.

14. Transport Information

Proper Shipping Name:	Paint - Not restricted as hazardous.
Transportation Hazard Class:	Not regulated.
Packing Group:	Not regulated.
UN Number:	Not regulated.
Environmental Hazards:	Not considered a DOT marine pollutant.
Bulk Transport:	Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code.
Special Precautions:	Read safety instructions, SDS, and emergency procedures before handling.

15. Regulatory Information

U.S. Federal Regulations:

TSCA:

Section 8(b) Inventory
All components are listed or exempted.
Section 8(d) Health & Safety
Not listed.
Section 4a (b) Chemical Test Rules
Not listed.
Section 12(b) Export Notification
Not listed.

OSHA:

Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA:

Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA:

Hazard Category Section 304 – Indicates toxic chemical(s) subject to reporting requirements of Title III of CFR 372.
Not listed.

Hazard Category Section 311, 312 – Indicates toxic chemical(s) subject to reporting requirements of Title III of CFR 372.

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
Aspiration hazard
Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)
Aspiration hazard
C9-11 Alkanes (CAS 68551-16-6)
Fire hazard
Acute health hazard
Aspiration hazard

Hazard Category Section 313 – Indicates toxic chemical(s) subject to the reporting requirements of Title III and of CFR 372.
Not listed.

Clean Air Act:

Section 112 of Hazardous Air Pollutants (HAPs) List
Not listed.
Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not listed.

State Regulations

Right to Know Hazardous Substance List

Massachusetts:

Distillates (petroleum), hydrotreated light naphthenic (CAS 64742-53-6)

New Jersey:

None listed.

Pennsylvania:

Mineral oil, mist (CAS 64742-52-5, 64742-53-6)

California Prop 65:

⚠ **WARNING:** This product can expose you to chemicals including carbon black, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other Information

Caution: Consult Safety Data Sheet prior to use. For industrial use only. Contact the manufacturer with any product-related questions.

Information Contact:

Safety and Compliance Director
Standard Paints, Inc.
940 S. 6th Avenue
Mansfield, Texas 76063

Manufacturer Disclaimer: The information and recommendations contained herein are provided in good faith and are accurate to the best of our knowledge as of the date of preparation. We do not suggest or guarantee that any hazards listed herein are the only ones which exist and we make no representation of its completeness or accuracy. Standard Paints, Inc. makes no warranty or representations of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances and/or materials. Users have the sole responsibility to determine the suitability of the materials for any use, the manner of use contemplated, and should consider this data only as supplement to other information gathered by the users. Users must make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of this product, the safety and health of employees and customers, and the protection of the environment. User must meet all applicable safety and health standards. Since the use of this information and conditions of use of the product are not within our control, we make no warranty or representations of any kind, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose with respect to this information or the product it describes. We do not accept liability for any loss or damage that may occur from the use of this information, nor do we offer warranty against patent infringement.

WB LUMBER COLORANT MEDIUM BROWN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 08/31/2023 Revision date: 08/31/2023 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : WB LUMBER COLORANT MEDIUM BROWN

Product code : 77166

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Rodda Paint Co.
6107 N. Marine Dr.
Portland, OR 97203 - US
T (503) 521-4300
www.roddapaint.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300 Chemtrec 24 Hour Emergency Telephone Number

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Carcinogenicity Category 2 H351 Suspected of causing cancer

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H351 - Suspected of causing cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear eye protection, protective gloves, protective clothing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
CARBON BLACK	(CAS-No.) 1333-86-4	0.1	Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CARBON BLACK (1333-86-4)		
ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable particulate matter)

CARBON BLACK (1333-86-4)		
OSHA	OSHA PEL (TWA) [1]	3.5 mg/m³
IDLH	US IDLH (mg/m³)	1750 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: brown
Odor	: mild
Odor threshold	: No data available
pH	: 8.5 - 9.5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity	: No data available
Specific gravity / density	: 9.16 lb/gal
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available

Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

CARBON BLACK (1333-86-4)	
LD50 oral rat	> 15400 mg/kg

Skin corrosion/irritation : Not classified
pH: 8.5 - 9.5

Serious eye damage/irritation : Not classified
pH: 8.5 - 9.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

CARBON BLACK (1333-86-4)	
IARC group	2B - Possibly Carcinogenic to Humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Avoid release to the environment. Discharging into rivers and drains is forbidden. Dispose of contents/container to hazardous or special waste collection point in accordance with state and local regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

CARBON BLACK (1333-86-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

CARBON BLACK (1333-86-4)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

CARBON BLACK (1333-86-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. Listed on European List of Notified Chemical Substances (ELINCS)

National regulations

CARBON BLACK (1333-86-4)
Listed on the AICS (the Australian Inventory of Chemical Substances) Listed on Inventory of Existing Chemical Substances (IECSC) Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory. Listed on Industrial Safety and Health Law Substances (ISHL) Listed on the Korean ECL (Existing Chemical List) inventory. Listed on New Zealand - Inventory of Chemicals (NZIoC) Listed on Inventory of Chemicals and Chemical Substances (PICCS) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

⚠ **WARNING** This product can expose you to CARBON BLACK, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CARBON BLACK (1333-86-4)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

CARBON BLACK (1333-86-4)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) U.S. - Idaho - Occupational Exposure Limits - TWAs U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 08/31/2023

Full text of H-phrases:

H351	Suspected of causing cancer

SDS US (GHS HazCom 2012)

Rodda Paint Co. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to understand the data contained in this SDS and any hazards associated with the product. This information is provided as a resource only and should not be taken as a warranty or representation for which Rodda Paint Co. assumes legal responsibility. Unless otherwise specified, the data provided herein is valid only for the described material and may not be applicable for the product used in combination with any other materials or processes. The information contained within is believed to be accurate as of the effective date and compiled from sources believed to be reliable. The user assumes all responsibility of using and handling the product in accordance with applicable federal, state and local regulations.

WB LUMBER COLORANT, ALTA LIGHT CEDAR

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/23/2021 Revision date: 08/31/2023 Supersedes: 04/23/2021 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : WB LUMBER COLORANT, ALTA LIGHT CEDAR

Product code : 77183

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Rodda Paint Co.
6107 N. Marine Dr.
Portland, OR 97203 - US
T (503) 521-4300
www.roddapaint.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300 Chemtrec 24 Hour Emergency Telephone Number

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from freezing. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	orange
Odor	:	mild
Odor threshold	:	No data available
pH	:	8.5 - 10
Melting point	:	Not applicable
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	Not applicable
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable.
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	No data available
Specific gravity	:	No data available
Specific gravity / density	:	9.27 - 9.65 lb/gal
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	775 - 1050 cSt
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Not classified

Skin corrosion/irritation	:	Not classified pH: 8.5 - 10
Serious eye damage/irritation	:	Not classified pH: 8.5 - 10
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity – single exposure	:	Not classified
Specific target organ toxicity – repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Avoid release to the environment. Discharging into rivers and drains is forbidden. Dispose of contents/container to hazardous or special waste collection point in accordance with state and local regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

National regulations
No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Revision date	:	08/31/2023
Hazard Rating		
Health	:	1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	:	0 Minimal Hazard - Materials that will not burn
Physical	:	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	:	C C - Safety glasses, Gloves, Synthetic apron

SDS US (GHS HazCom 2012)

Rodda Paint Co. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to understand the data contained in this SDS and any hazards associated with the product. This information is provided as a resource only and should not be taken as a warranty or representation for which Rodda Paint Co. assumes legal responsibility. Unless otherwise specified, the data provided herein is valid only for the described material and may not be applicable for the product used in combination with any other materials or processes. The information contained within is believed to be accurate as of the effective date and compiled from sources believed to be reliable. The user assumes all responsibility of using and handling the product in accordance with applicable federal, state and local regulations.

LUMBER COLORANT CA BROWN

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 06/24/2021 Revision date: 12/29/2021 Supersedes: 06/24/2021 Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : LUMBER COLORANT CA BROWN

Product code : 77186

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Rodda Paint Co.
6107 N. Marine Dr.
Portland, OR 97203 - US
T (503) 521-4300
www.roddapaint.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300 Chemtrec 24 Hour Emergency Telephone Number

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Carcinogenicity Category 2 H351 Suspected of causing cancer (Avoid prolonged and repeated contact with skin, Dermal, Inhalation)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H351 - Suspected of causing cancer (Avoid prolonged and repeated contact with skin, Dermal, Inhalation)

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear eye protection, protective clothing, protective gloves, Approved respirator..
P308+P313 - If exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
CARBON BLACK	(CAS-No.) 1333-86-4	1.6	Carc. 2, H351

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

CARBON BLACK (1333-86-4)		
ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ (inhalable particulate matter)

CARBON BLACK (1333-86-4)		
OSHA	OSHA PEL (TWA) [1]	3.5 mg/m³
IDLH	US IDLH (mg/m³)	1750 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	3.5 mg/m³ 0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear respiratory protection. Gloves. Protective clothing. Protective goggles.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: dark brown
Odor	: Faint odor of ammonia.
Odor threshold	: No data available
pH	: 8.5 - 9.5
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity	: No data available
Specific gravity / density	: 10.46 lb/gal
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available

Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

CARBON BLACK (1333-86-4)	
LD50 oral rat	> 15400 mg/kg

Skin corrosion/irritation : Not classified
pH: 8.5 - 9.5

Serious eye damage/irritation : Not classified
pH: 8.5 - 9.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (Avoid prolonged and repeated contact with skin, Dermal, Inhalation).

CARBON BLACK (1333-86-4)	
IARC group	2B - Possibly Carcinogenic to Humans
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Avoid release to the environment. Discharging into rivers and drains is forbidden. Dispose of contents/container to hazardous or special waste collection point in accordance with state and local regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations
All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations
CANADA

CARBON BLACK (1333-86-4)
Listed on the Canadian DSL (Domestic Substances List) inventory.

EU-Regulations

CARBON BLACK (1333-86-4)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances. Listed on European List of Notified Chemical Substances (ELINCS)

National regulations

CARBON BLACK (1333-86-4)
Listed on the AICS (the Australian Inventory of Chemical Substances) Listed on Inventory of Existing Chemical Substances (IECSC) Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory. Listed on Industrial Safety and Health Law Substances (ISHL) Listed on the Korean ECL (Existing Chemical List) inventory. Listed on New Zealand - Inventory of Chemicals (NZIoC) Listed on Inventory of Chemicals and Chemical Substances (PICCS) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

⚠ **WARNING** This product can expose you to CARBON BLACK, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CARBON BLACK (1333-86-4)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

CARBON BLACK (1333-86-4)
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs) U.S. - Idaho - Occupational Exposure Limits - TWAs U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 12/29/2021

Full text of H-phrases:

H351	Suspected of causing cancer

SDS US (GHS HazCom 2012)

Rodda Paint Co. urges each customer or recipient of this SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to understand the data contained in this SDS and any hazards associated with the product. This information is provided as a resource only and should not be taken as a warranty or representation for which Rodda Paint Co. assumes legal responsibility. Unless otherwise specified, the data provided herein is valid only for the described material and may not be applicable for the product used in combination with any other materials or processes. The information contained within is believed to be accurate as of the effective date and compiled from sources believed to be reliable. The user assumes all responsibility of using and handling the product in accordance with applicable federal, state and local regulations.

Aaron Manley
Olympic Region Clean Air Agency
October 4, 2023

Appendix B – BACT Analysis

Best Available Control Technology (BACT) Analysis

Alta Forest Products, LLC.
780 West Hwy 108, Shelton, Washington 98584

Antea®Group

Understanding today.
Improving tomorrow.

PREPARED FOR
Alta Forest Products, LLC.
780 West Hwy 108
Shelton, Washington 98584

PREPARED BY
Antea Group Charlotte, NC

June 30, 2023
Project # Alta Env Support

us.anteagroup.com

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Technical Exhibits

Best Available Control Technology (BACT) Analysis

Alta Forest Products, LLC
Shelton, Mason County, Washington

1.0 EXECUTIVE SUMMARY

Alta Forest Products, LLC (Alta) is a wood products facility founded in 1975. Alta is proposing to add a new stain flow coater with preheating as well as requesting that two additional unpermitted spray boxes be added to the permit. Air emissions from the proposed equipment are subject to regulation under various rules enforced by the Olympic Region Clean Air Agency (ORCAA).

As required per ORCAA Rule 6.1.4(a)(2), Alta has conducted an analysis of potential reduction measures to identify Best Available Control Technology (BACT) for the New Source Review Pollutants that are emitted in significant amounts, including VOC from the new stain coater (EU8). This report documents the results of that analysis, conducted on behalf of Alta Forest Products, LLC by Antea®Group (Antea Group).

Based primarily upon coating operating parameters, material processing areas, and emission data provided by Alta and reviews of control technology databases, Antea Group concludes that of the control options reviewed for Alta's proposed equipment, the control options or management standards in the table below are BACT for the source and pollutant denoted.

2.0 INTRODUCTION

Alta proposes to construct a new stain coater with preheating at their facility in Shelton, Washington (EU8). Potential air emissions from the facility are subject to regulation under various rules enforced by the Olympic Region Clean Air Agency. Alta is required to conduct an analysis of potential reduction measures to identify Best Available Control Technology (BACT) for the New Source Review (NSR) Pollutant, VOC.

This report documents the results of the BACT analysis, conducted on behalf of Alta by Antea Group for the new stain coater.

2.1 EMISSION SOURCE DESCRIPTION

The proposed emission source for the BACT analysis is the new Stain Flow Coater (EU8).

2.2 BACT REQUIREMENTS

The U.S. Environmental Protection Agency (EPA) and ORCAA recommend a "top-down" approach to the BACT analysis; therefore, this report utilizes the five (5) step BACT process as described below:

- **STEP 1: Identify all potential available control technologies.** The first step in a "Top-Down" analysis is to identify, for the emission unit in question, "all available" control options. Available control options are those air pollution control technologies or techniques with a practical potential for application to the emissions unit and the regulated pollutant under review.
- **STEP 2: Eliminate technically infeasible options**. The technical feasibility of the control options identified in Step 1 is evaluated with respect to the source-specific (or emissions unit specific) factors. Technically infeasible control options are then eliminated from further consideration in the BACT analysis.

- **STEP 3: Rank remaining control technologies by control effectiveness.** All remaining control alternatives not eliminated in Step 2 are ranked and then listed in order of over-all control effectiveness for the pollutant under review, with the most effective control alternative at the top.
- **STEP 4: Evaluate most effective controls and document results.** The results of Step 3 are analyzed for the associated impacts of the control option, including beneficial and adverse impacts. In the event the top candidate is shown to be inappropriate, due to energy, environmental, or economic impacts, the next most stringent alternative in the listing becomes the new control candidate and is similarly evaluated. The process continues until the technology cannot be eliminated.
- **STEP 5: Select BACT**. The most effective control option not eliminated in Step 4 is proposed as BACT for the emission unit to control the pollutant under review.

ORCAA does not have a set threshold for economic feasibility for controls. ORCAA reviews the impacts, feasibility, and control costs on a case-by-case basis.

For this BACT analysis, technologies were reviewed based on maximum control efficiency and comparison to beneficial and adverse impacts.

3.0 SELECTION OF FEASIBLE CONTROL ALTERNATIVES

Antea Group researched technically feasible control options available in the marketplace and / or installed at potentially similar sources, as well as control systems presently employed at other wood coating facilities. In addition, Antea Group reviewed the control technologies discussed in WAC 173-490-207 for Surface Coating of Flatwood Paneling. The following section details the review and selection process.

3.1 REVIEW OF CONTROL TECHNOLOGY DATABASES

The primary source of information used in all regulatory determinations of emission control feasibility is the USEPA's RACT/BACT/LAER Clearinghouse (RBLC). The RBLC serves as a master repository of data gathered by all state permitting agencies when determining emission control measures required to satisfy regulatory requirements. Antea Group accessed this database via the Internet to search for VOC BACT determinations on wood coating and paint coating operations. Antea Group also accessed the California Air Resources Board BACT Clearing House website.

When data was not available for wood coating, control technologies were reviewed based on the pollutant to be controlled for PSD sources listed in the search database.

Three wood coating operations were identified by the RBLC's comprehensive report. The three facilities had a mixture of work practices and Regenerative Thermal Oxidizers as BACT choices. Antea Group's search results are presented in **Exhibit 1.**

Discussions of control technologies for the emission source presented in the sections below. As allowed under the 5-Step BACT Process, if a source selects the top-tier feasible control technology, an economic impact analysis is not required.

3.2 SELECTION OF ALTERNATIVE TECHNOLOGIES AND COST ANALYSIS

Antea Group's search results, presented in **Exhibit 1** disclosed control technologies that have been used by wood coating operations for the control of VOC in BACT analyses. The RBLC comprehensive report details

implemented controls ranging from Good Work Practices to a Regenerative Thermal Oxidizer for VOC.

In considering reduction technology options for the proposed emission unit's BACT analysis, consideration of the solvent utilized was a significant factor. Technical feasibility and impacts for the control technologies reviewed for the emission unit is presented in **Exhibit 2**.

All of the listed technologies were deemed qualified for technical feasibility study for the purposes of this analysis.

The following table presents VOC control technologies that were reviewed and deemed technically feasible as a result of Antea Group's review:

Control System	Control Efficiency [(1)] (%)	Basis for Technical Feasibility
Regenerative Thermal Oxidizer	98	Per WAC 173-490-207 (2)(a), VOC emissions must be below the required emission rate based on the coated finished product. WAC 173-690(2)(b) indicates that emission limits can be below the threshold by use of low solvent materials (work practices), incineration, or equivalent means.
Work Practices including low-VOC solvents, closed containers, and cleaning up spills immediately	0	Per WAC 173-490-207 (2)(a), VOC emissions must be below the required emission rate based on the coated finished product. WAC 173-690(2)(b) indicates that emission limits can be below the threshold by use of low solvent materials (work practices), incineration, or equivalent means.

[1]The technologies presented in the preceding table were ranked on the basis of potential control efficiency.

Technical feasibility and impacts for the control technologies reviewed for the new emission source is presented in **Exhibit 3**.

Per the requirements of the 5-step BACT process, control technologies that are deemed feasible must be evaluated for energy, environmental, or economic impacts. Energy and economic impacts were evaluated in accordance with OAQPS Control Cost Manual, Sixth Edition (EPA/453/B-02-001), January 2002 as discussed in the following section. Environmental impacts, if any, are discussed in the feasibility and impacts presented in **Exhibit 3**.

A cost analysis was developed as an Excel spreadsheet for each of the selected technically feasible control technologies for a system designed to control VOC for the new emission source.

In developing these spreadsheets, Antea Group used as a technical reference the COST-AIR Air Pollution Control Spreadsheets published by USEPA's Office of Air Quality Planning and Standards (OAQPS) [12]. The COST-AIR spreadsheets were designed to supplement the OAQPS Control Cost Manual, a standard guidance for cost analysis. All costs developed from prior studies were adjusted by inflation factors derived from appropriate inflation indices.

The format of each cost spreadsheet in the technical exhibits is in general accord with that presented in the OAQPS manual. This format simplifies the design-level detail specified in COST-AIR to enable a user to develop cost estimates without vendor assistance. Such detail has been deemed unnecessary for this BACT analysis. Cost analyses for each system are discussed below in "top-down" order.

Cost Analysis

Exhibit 4 presents the cost analysis for regenerative thermal oxidizer. One thermal oxidizer would be utilized for the EU8 Coating system. The table below summarizes the results for this system while specific cost elements are discussed below.

Parameter	Cost
Total Capital Investment (Total Installation Cost - Direct plus Indirect)	$833,516
Total Annualized Cost (Direct plus Indirect)	$3,933,647 *
Cost/ton Process VOC Reduced	$13,575.23
VOC (TPY) Potential	296
VOC Reduced, TPY	290

* Includes cost of propane in lieu of natural gas, which is not available at facility.

Direct Costs

A variety of sources were utilized in estimating the total capital investment. EPA's Clean Air Technology Center Air Pollution Control Fact Sheets for specific control technologies were reviewed for cost estimates. However, the Fact Sheets only presented a broad range of cost estimates based on flow rates. Primarily, costs were estimated from the OAQPS Control Cost Manual (*circa* 2002), adjusted with an inflation factor. The costs for each technology varied and in some cases, the variance was significant. Therefore, the direct costs as presented in the reference documents were averaged with an inflation factor applied to produce a current cost estimate.

Annual Operating Conditions

Operating hours, production, emissions, and exhaust flows are taken from information provided by Alta in the form of emissions calculations.

Annual Costs

All unit costs reflect an estimated rate, including property tax. The capital recovery factor was obtained consistent with OAQPS guidance for this technology, with an average for the main system components resulting in a 10-year economic life.

As shown above, cost effectiveness for RTO system has been estimated at $13,575.23 per ton of VOC removed. ORCAA does not have a set threshold for economic feasibility for controls. ORCAA reviews the impacts,

feasibility, and control costs on a case-by-case basis. However, we conclude that RTO option is not cost-effective when compared to other alternate control technology of good work practices which has no direct costs.

The good work practices include utilizing low-VOC solvents which will ensure that the VOC emissions remain below the 12 lb / 1,000 sq. feet of board for the EU8 coating machine which is allowed under WAC 173-490-207 (Surface Coating of Flatwood Paneling). Using these work practices will not cause an undue burden to Alta as the solvents will not result in any direct or indirect additional costs.

4.0 CONCLUSION: SUMMARY OF BACT DETERMINATION

As noted in the Introduction, BACT is operationally determined as the most effective technically feasible control technology that is deemed cost-effective. Results of this study in that context are summarized below:

Source	Pollutant	Control Efficiency (%)	BACT
EU8 New Stain Flow Coater	VOC	0%	Good Work Practices including low-VOC solvents, closed containers and cleaning up spills immediately.

Based on the information provided, and taking technical feasibility, cost effectiveness (when applicable), and environmental factors into account, Antea Group concludes that of the control options reviewed for Alta's proposed emission unit, the control options or management standards in the above table are BACT.

5.0 REFERENCES

1. RACT/RACT/LAER Clearinghouse, at https://cfpub.epa.gov/RBLC/
2. California BACT Clearinghouse Database, at https://www.arb.ca.gov/bAct/bAct.htm
3. EPA Clean Air Technology Center, at https://www.epa.gov/catc/clean-air-technology-center-products
4. Air Pollution Control Engineering Manual, AWMA

6.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Kara J. Van Blarcum
Senior Professional

June 30, 2023

Reviewed by:

Tony Rossano
Senior Project Manager

June 30, 2023

7.0 CONTACT INFORMATION

USA Headquarters
5910 Rice Creek Parkway, Suite 100
St. Paul, MN 55126 USA

Toll Free +1 800 477 7411
International +1 651 639 9449

Technical Exhibits

Exhibit 1: RBLC Database Search Results
Exhibit 2: Technical Feasibility Summary
Exhibit 3: Technical Impacts Summary
Exhibit 4: RTO Cost Estimation

Exhibit 1

RBLC Database Search Results

Exhibit 1: RBLC Database Searches
RBLC IDCORPORATE/COMPANY &
FACILITY NAMEPROCESS CODEPROCESS
DESCRIPTIONPERMIT NUMBER &
PERMIT DATE

IN-0280MASTERBRAND CABINETS, INC.
MASTERBRAND CABINETS, INC. 41.025
Topcoat coating operation 037-38193-00051
12/06/2017 41.025
Opaque Coating AL-0314LEGACY CABINETS, INC.
LEGACY CABINETS, INC. 41.025
LINE NO. 6 309-0030-X006
10/18/2017 IL-0122MASTERBRAND CABINETS, INC.
MASTERBRAND CABINETS, INC. 41.025
Wood Furniture Coating Operation (Material Formulation) 15050014
10/25/2016 41.025
Wood Furniture Coating Operation (Add-On Control)

RBLC ID: IN-0280

Corporate/Company: MASTERBRAND CABINETS, INC.

Facility Name: MASTERBRAND CABINETS, INC.

Process: Topcoat coating operation

Pollutant: Volatile Organic Compounds (VOC)

CAS Number: VOC

Pollutant Group(s): Volatile Organic Compounds (VOC),

Substance Registry System: Volatile Organic Compounds (VOC)

Pollution Prevention/**A**dd-on Control Equipment/**B**oth/**N**o Controls Feasible: A

P2/Add-on Description: RTO

Test Method: Unspecified

EPA/OAR Methods | All Other Methods

Percent Efficiency: 98.000

Compliance Verified: Unknown

EMISSION LIMITS:

- **Case-by-Case Basis:** BACT-PSD
- **Other Applicable Requirements:** NESHAP
- **Other Factors Influence Decision:** Unknown
- **Emission Limit 1:** 4.5000 LB/GAL AS APPLIED
- **Emission Limit 2:** 0
- **Standard Emission Limit:** 0

COST DATA:

- **Cost Verified?** No
- **Dollar Year Used in Cost Estimates:**
- **Cost Effectiveness:** 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Pollutant Notes: Additional PSD BACT: (a) VOC emissions from the two (2) topcoat/opaque spray booths, identified as FLA-1 and FLA-2 at the Finishing Line A Flatline A and associated drying ovens; and the two (2) topcoat/opaque spray booths, identified as FLB-1 and FLB-2 at the Finishing Line B Flatline B and associated drying ovens shall be controlled by Regenerative Thermal Oxidizer at 98% destruction efficiency and an overall control of 83%. (b) The following good work practices must be implemented: (1) Solvents containing no more than 8.0 percent by weight of VOC must be used for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters unless the spray booth is being refurbished. (2) Requirements for storage of both fresh and used organic solvent in closed containers. (3) Requirement to pump solvent used for line cleaning into closed containers. (4) Requirement to collect solvent used for gun cleaning in closed containers. (5) Requirement to control emissions from wash-off by using closed tanks. (6) Requirements to minimize spills of any VOC-containing materials and to clean up any such spills immediately. (7) Requirements to minimize emissions of VOC during the cleaning of storage, mixing and conveying equipment. (8) Requirements to keep vessels that contain VOC-containing materials closed except when specifically in use. (9) Requirements to convey VOC-containing materials in closed containers or pipes; (10) Requirement to maintain a Work Practice Implementation Plan. (11) Requirement to maintain and implement a Leak inspection and maintenance plan for VOC.

RBLC ID: IN-0280

Corporate/Company: MASTERBRAND CABINETS, INC.

Facility Name: MASTERBRAND CABINETS, INC.

Process: Opaque Coating

Pollutant: Volatile Organic Compounds (VOC) **CAS Number:** VOC

Pollutant Group(s): Volatile Organic Compounds (VOC), **Substance Registry System:** Volatile Organic Compounds (VOC)

Pollution Prevention/**A**dd-on Control Equipment/**B**oth/**N**o Controls Feasible: A

P2/Add-on Description:

Test Method: Unspecified EPA/OAR Methods All Other Methods

Percent Efficiency: 98.000

Compliance Verified: Unknown

EMISSION LIMITS:

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: NESHAP

Other Factors Influence Decision: Unknown

Emission Limit 1: 5.3000 LB/GAL AS APPLIED

Emission Limit 2: 0

Standard Emission Limit: 0

COST DATA:

Cost Verified?	No
Dollar Year Used in Cost Estimates:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Pollutant Notes:	Additional PSD BACT: (a) VOC emissions from the two (2) topcoat/opaque spray booths, identified as FLA-1 and FLA-2 at the Finishing Line A Flatline A and associated drying ovens; and the two (2) topcoat/opaque spray booths, identified as FLB-1 and FLB-2 at the Finishing Line B Flatline B and associated drying ovens shall be controlled by Regenerative Thermal Oxidizer at 98% destruction efficiency and an overall control of 83%. (b) The following good work practices must be implemented: (1) Solvents containing no more than 8.0 percent by weight of VOC must be used for cleaning spray booth components other than conveyors, continuous coaters and their enclosures, or metal filters, or plastic filters unless the spray booth is being refurbished. (2) Requirements for storage of both fresh and used organic solvent in closed containers. (3) Requirement to pump solvent used for line cleaning into closed containers. (4) Requirement to collect solvent used for gun cleaning in closed containers. (5) Requirement to control emissions from wash-off by using closed tanks. (6) Requirements to minimize spills of any VOC-containing materials and to clean up any such spills immediately. (7) Requirements to minimize emissions of VOC during the cleaning of storage, mixing and conveying equipment. (8) Requirements to keep vessels that contain VOC-containing materials closed except when specifically in use. (9) Requirements to convey VOC-containing materials in closed containers or pipes; (10) Requirement to maintain a Work Practice Implementation Plan. (11) Requirement to maintain and implement a Leak inspection and maintenance plan for VOC.

RBLC ID: AL-0314

Corporate/Company: LEGACY CABINETS, INC.

Facility Name: LEGACY CABINETS, INC.

Process: LINE NO. 6

Pollutant: Volatile Organic Compounds (VOC)

CAS Number: VOC

Pollutant Group(s): Volatile Organic Compounds (VOC),

Substance Registry System: Volatile Organic Compounds (VOC)

Pollution Prevention/**A**dd-on Control Equipment/**B**oth/**N**o Controls Feasible: P

P2/Add-on Description: HVLP SPRAY EQUIPMENT FOR STAINS AIR ASST AIRLESS FOR SEALERS/TOPCOATS 0.3 POUNDS VHAP/POUND SOLIDS 1.58 POUNDS VOC/GALLON COATING FOR STAINS MAX MONTHLY LIMIT 0.62 POUNDS VOC/GALLON COATING FOR SEALERS MAX MONTHLY LIMIT 2.3 POUNDS VOC/GALLON COATING FOR TOPCOATS MAX MONTHLY LIMIT 1.55 POUNDS VOC/GALLON COATING FOR CATALYSTS MAX MONTHLY LIMIT

Test Method: EPA/OAR Mthd 24 EPA/OAR Methods All Other Methods

Percent Efficiency: 0

Compliance Verified: Unknown

EMISSION LIMITS:

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: MACT

Other Factors Influence Decision: Unknown

Emission Limit 1: 110.0000 TONS/12 MONTHS MONTHLY

Emission Limit 2: 5000.0000 HOURS/12 MONTHS 12 MONTHS

Standard Emission Limit: 0

COST DATA:

Cost Verified? No

Dollar Year Used in Cost Estimates: 2017

Cost Effectiveness: 1009 $/ton

Incremental Cost Effectiveness: 1009 $/ton

Pollutant Notes: 1009 INCREMENTAL COST EFFECTIVENESS FOR COATING REFORMULATION

RBLC ID: IL-0122

Corporate/Company: MASTERBRAND CABINETS, INC.

Facility Name: MASTERBRAND CABINETS, INC.

Process: Wood Furniture Coating Operation (Material Formulation)

Pollutant: Volatile Organic Compounds (VOC)

CAS Number: VOC

Pollutant Group(s): Volatile Organic Compounds (VOC),

Substance Registry System: Volatile Organic Compounds (VOC)

Pollution Prevention/**A**dd-on Control Equipment/**B**oth/**N**o Controls Feasible: P

P2/Add-on Description: HVLP and air assisted airless spray equipment or equipment with equivalent or better transfer efficiency; work practices

---

Test Method: EPA/OAR Mthd 24 EPA/OAR Methods All Other Methods

Percent Efficiency: 0

Compliance Verified: Unknown

EMISSION LIMITS:

Case-by-Case Basis: BACT-PSD

Other Applicable Requirements: NESHAP , SIP

Other Factors Influence Decision: Unknown

Emission Limit 1: 0

Emission Limit 2: 0

Standard Emission Limit: 0

COST DATA:

Cost Verified? No

Dollar Year Used in Cost Estimates:

Cost Effectiveness: 0 $/ton

Incremental Cost Effectiveness: 0 $/ton

Pollutant Notes: This process addresses the following uncontrolled operations: Main 1 (West): Pre-Seal, Sealer and topcoat Main 2 (East):

Pre-Seal, Sealer and topcoat Trim UV (Flat Molding) Fiberboard Limits: i. Stains, toners and glazes (less water and exempt compounds): Opaque Stain-4.7 lb/gal Non-topcoat pigmented coat-5.0 lb/gal Repair coat-5.6 lb/gal Semi-transparent stain-6.6 lb/gal Washcoat-6.1 lb/gal ii. Sealers (including pre-seals): Acid-cured alkyd amino vinyl sealer-2.3 lb VOM/lb solids All other sealers-1.9 lb VOM/lb solids iii. Topcoats: Acid-cured alkyd amino conversion varnish topcoats-2.0 lb VOM/lb solids All other topcoats-1.8 lb VOM/lb solids

RBLC ID: IL-0122

Corporate/Company: MASTERBRAND CABINETS, INC.

Facility Name: MASTERBRAND CABINETS, INC.

Process: Wood Furniture Coating Operation (Add-On Control)

Pollutant: Volatile Organic Compounds (VOC)

CAS Number: VOC

Pollutant Group(s): Volatile Organic Compounds (VOC),

Substance Registry System: Volatile Organic Compounds (VOC)

Pollution Prevention/**A**dd-on Control Equipment/**B**oth/**N**o Controls Feasible: B

P2/Add-on Description: HVLP spray equipment, air assisted airless spray equipment or equipment with equivalent or better transfer efficiency; work practices; oxidizer with 98% destruction efficiency.

Test Method: EPA/OAR Mthd 25

EPA/OAR Methods | All Other Methods

Percent Efficiency:	98.000
Compliance Verified:	Unknown
EMISSION LIMITS:	
Case-by-Case Basis:	BACT-PSD
Other Applicable Requirements:	NESHAP , SIP
Other Factors Influence Decision:	Unknown
Emission Limit 1:	0
Emission Limit 2:	0
Standard Emission Limit:	0
COST DATA:	
Cost Verified?	No
Dollar Year Used in Cost Estimates:	
Cost Effectiveness:	0 $/ton
Incremental Cost Effectiveness:	0 $/ton
Pollutant Notes:	This process addresses the following controlled operations: Main 1 (West): Stain, Toner & Glaze Main 2 (East): Stain, Toner & Glaze Limits: i. Stains, toners and glazes (less water and exempt compounds): Opaque Stain-4.7 lb/gal Non-topcoat pigmented coat-5.0 lb/gal Repair coat-5.6 lb/gal Semi-transparent stain-6.6 lb/gal Washcoat-6.1 lb/gal ii. Sealers (including pre-seals): Acid-cured alkyd amino vinyl sealer-2.3 lb VOM/lb solids All other sealers-1.9 lb VOM/lb solids iii. Topcoats:

Acid-cured alkyd amino conversion varnish topcoats-2.0 lb VOM/lb solids All other topcoats-1.8 lb VOM/lb solids

Exhibit 2

Technical Feasibility Summary

Exhibit 2 - Technical Feasibility
Alta Forest Products, LLC.
Mason County, Washington
Top Down Best Available Control Technology (BACT) Analysis

Technological Feasibility Analysis - VOC

[1]BACT Options - Ranking via Top Down Method	Technically Feasible? (Y or N)	[2]Control Efficiency (%)	Comments/ Rational
Work Practices including low-VOC solvents, closed containers, and clean up spills immediately.	Y	0%	Per WAC 173-490-207 (2)(a), VOC emissions must be below the required emission rate based on the coated finished product. WAC 173-690(2)(b) indicates that emission limits can be below the threshold by use of low solvent materials (work practices), incineration, or equivalent means.
Regenerative Thermal Oxidizer	Y	98%	Per WAC 173-490-207 (2)(a), VOC emissions must be below the required emission rate based on the coated finished product. WAC 173-690(2)(b) indicates that emission limits can be below the threshold by use of low solvent materials (work practices), incineration, or equivalent means.

Notes:
[1] BACT Options determined by a review of the EPA's RACT/BACT/LAER Clearinghouse (RBLC) for general VOC controls.
[2] If control Efficiencies were presented as a percentage range . The median value was utilized for the purposes of this analysis.

Exhibit 3

Technical Impacts Summary

Exhibit 3 - Technical Impacts
Alta Forest Products, LLC.
Mason County, Washington
Top Down Best Available Control Technology (BACT) Analysis

Control System Impact Summary - Technically Feasible BACT Options - VOC

VOC BACT Option	Impacts	Pre-BACT VOC Emission Rate (tpy) [1]	Control Efficiency (%)	VOC Emissions Reduction	Cost Effectiveness ($/ton VOC Reduced)
Work Practices including low-VOC solvents, closed containers, and clean up spills immediately.	Limited production and cost impact to Alta for implementing this BACT. Materials utilized will already be in production.	296	0%	0	$0.00
Regenerative Thermal Oxidizer	A new control device would need to be installed and maintained. In addition, propane usage would be needed to operate and supplement the Thermal Oxidizer.	296	98%	290	$13,575.23

Exhibit 4

RTO Cost Estimation

Exhibit 4 - RTO Cost Estimation

Alta Forest Products, LLC.
Mason County, Washington
Top Down Best Available Control Technology (BACT) Analysis

Regenerative Thermal Oxidizer

Capital Estimation

Direct Cost	
Purchased Equipment	
Basic Equipment and Auxilliaries	$431,681
Instrumentation (10% of Basic Equipment)	$43,168
Sales Tax (3% of Basci Equipment)	$12,950
Freight (5% of Equipment Cost)	$21,584
Total Purchased Equip Cost	***$509,384***
Direct Installation Costs	
Foundation and Supports (8% of Equipment Cost)	$40,751
Erection and Handling (14% of Equipment Cost)	$71,314
Electrical (4% of Equipment Cost)	$20,375
Piping (2% of Equipment Cost)	$10,188
Insulation for Ductwork (1% of Equipment Cost)	$5,094
Painting (1% of Equipment Cost)	$4,317
Building and Site Prep (0% of Equipment Cost)	-
Total Direct Installation Cost	***$152,038***

Indirect Costs	
Engineering and Supervision (10% of Equipment Cost)	$50,938
Construction and Field Expenses (5% of Equipment Cost)	$25,469
Contractor Fee (10% of Equipment Cost)	$50,938
Start-Up (2% of Equipment Cost)	$10,188
Performance Test (1% of Equipment Cost)	$5,094
Contingency (10% of Direct and Indirect Costs)	$29,467
Total Indirect Installation Cost	***$172,094***
Total Installation Cost - Direct plus Indirect	**$833,516**

Annual Cost Estimation

Direct Costs	
Utilities - Electricity ($0.086 kWh)	$70,590
Annual Fuel Costs for Propane ($1.77 /gal average)	$2,025,502
Operating Labor	$16,973
Supervisor (15% of Operator)	$2,546
Maintenance Costs	$16,973
Materials (100% of maintenance labor)	$16,973
Total Annual Direct Cost	***$2,149,555***

Indirect Costs	
Overhead (60% of Total Annual Direct Cost)	$1,289,733
Administrative Charges (2% of Total Installation Cost)	$16,670
Property Tax (1% of Total Installation Cost)	$8,335
Insurance (1% of Total Installation Cost)	$8,335
Total Annual Indirect Cost	***$1,323,074***

Capital Recovery	
Capital Recovery Factor (CRF) at 7% interest for 2 yrs.	0.553
Capital Recovery Cost ($/2 yrs.)	***$461,018***

Annual Cost	**$3,933,647**
Cost Effectiveness ($/ton VOC removed)	**$13,575.23**

Exhibit 4 - RTO Cost Estimation

Alta Forest Products, LLC.
Mason County, Washington
Top Down Best Available Control Technology (BACT) Analysis

Regenerative Thermal Oxidizer

Cost Estimate Source:

EPA Air Pollution Control Cost Manual, 6th Edition, EPA/452/B-02-001, January 2002. Note; costs presented were adjusted from 2016 dollars to 2023 dollars by multiplying 2016 costs by 1.24 (Inflation index). Cost estimate based on 20,000 CFM Regnerative Thermal Oxidizer

Ametorization

Capital Recovery Factor at 7% interest for 2 yrs per EPA Air Pollution Control Cost Manual, 6th Edition, EPA/452/B-02-001, January 2002.

Direct Costs

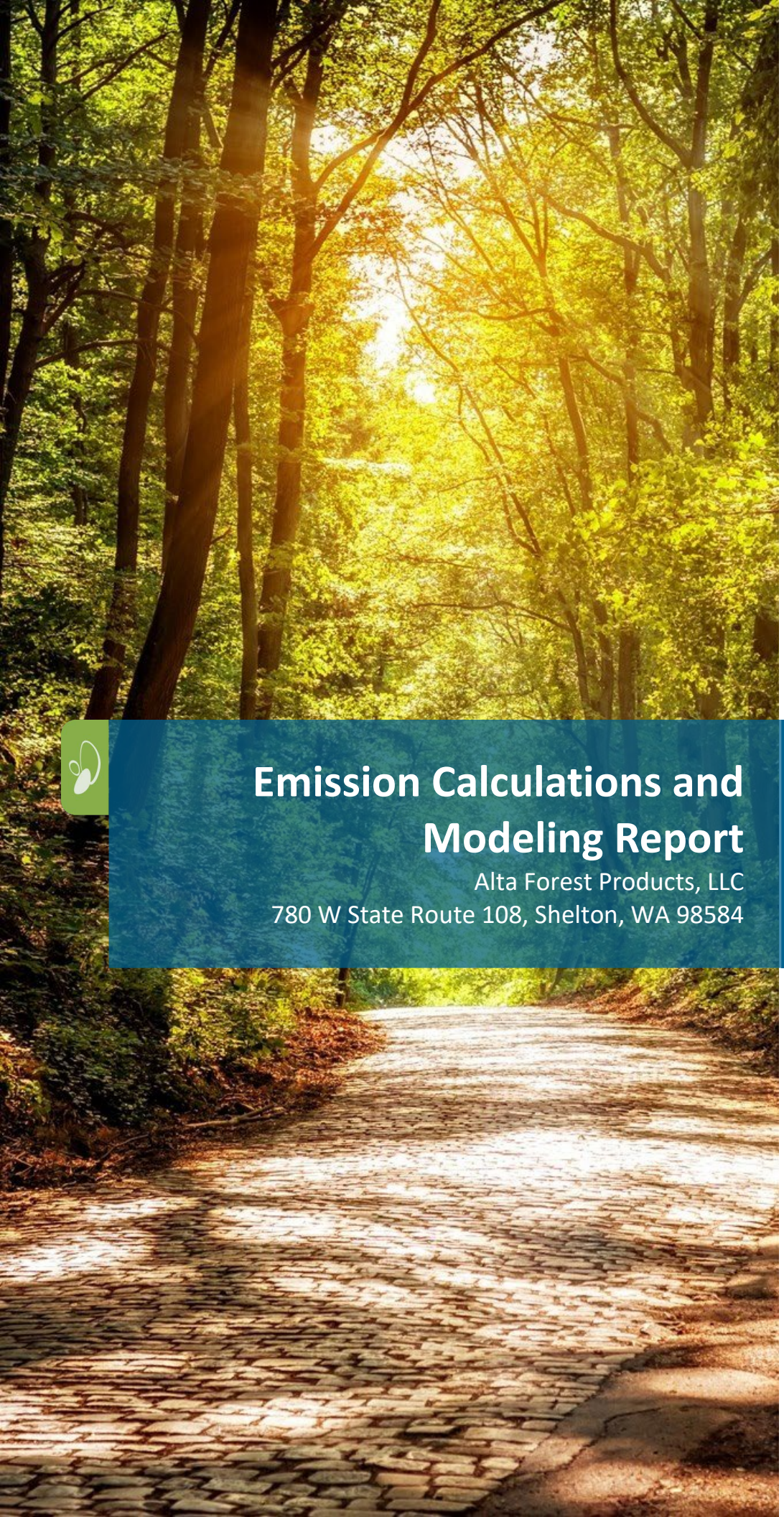
Operating Labor: (hr/day) x (days/yr) x (labor rate)
Supervisory Labor: (hr/day) x (days/yr) x (labor rate)
Maintenance Labor: (hr/day) x (days/yr) x (labor rate)
Maintenance Materials: 100% of maintenance labor
Replacement Parts: Bag recovery cost ($/year) ($CRC_B$) = (Initial bag cost ($) (C_B) + Bag Replacement Labor ($) ($C_l$) x Capitol recovery factor (CRF_B)
Utilities: Electricity - $0.086/kWh. Propane used in lieu of natural gas, which is not available for fuel at the facility.

Indirect Costs

Overhead: 60% of sum operating, supervisory, and maintenance labor plus maintenance materials
Administrative Charges: 2% of total capital cost
Property Tax: 1% of total capital cost
Insurance: 1% of total capital cost
Capital Recovery Cost: Product of capital recovery factor and total capital cost
Annual Cost: Sum of direct and indirect annual costs
Cost Effectiveness: Annual cost divided by emission controlled

Aaron Manley
Olympic Region Clean Air Agency
October 4, 2023

Appendix C – AERSCREEN Modeling



Emission Calculations and Modeling Report

Alta Forest Products, LLC
780 W State Route 108, Shelton, WA 98584

Antea®Group

Understanding today.
Improving tomorrow.

PREPARED FOR
Alta Forest Products, LLC
780 W State Route 108
Shelton, WA 98584

PREPARED BY
Antea Group
Pacific Northwest Offices

September 29, 2023

us.anteagroup.com

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Alta Forest Products, LLC

1.0 INTRODUCTION

Alta Forest Products, LLC (Alta) Shelton Mill (Site) is located at 780 West State Route 108, Shelton, Washington 98584, manufactures wood fence boards. Part of that manufacturing process can include the application of water-based colorant, oil-based stain, and anti-fungal coating treatments. These substances are applied at five different coating processes, which were investigated as the Site's emissions units for potential to emit (PTE).

These applied substances may contain Volatile Organic Compounds (VOCs), Hazardous Air Pollutants (HAPs), or Toxic Air Pollutants (TAPs). As such, and as part of the Synthetic Minor Source Permit request being submitted to Olympic Regional Clean Air Agency (ORCAA), emissions calculations and air modeling were performed to assess potential emissions and establish voluntary limitations. Due to correspondence and advisement from ORCAA, Alta has decided to take voluntary limitations on annual VOC emissions and daily site-wide Mycostat®IV gallons, which contains a TAP. This document details those emissions calculations and modeling efforts.

2.0 EMISSIONS CALCULATIONS

PTE is defined as the maximum capacity of a source to emit any air pollutant under its physical and operational design. This usually means that the PTE is the maximum amount a facility can emit if standard physical and operational design criteria are applied. However, any physical or operational limitation on the capacity of the source to emit an air pollutant (including air pollution control equipment, restrictions on hours of operation or on the type or amount of material combusted, stored, or processed) can be included as part of its operational design only if the limitation is enforceable by ORCAA. For Alta's Shelton coating line operations, the follow physical and operational design criteria were applied:

- Each process unit is operated at 100% of design capacity.
- Materials that emit the most air pollution are processed 100% of the time.
- All equipment is operating during business hours which is 20 hours per day, four days per week, 52 weeks per year. This is different than the standard ORCAA operating hours of 24 hour per day, 365 days per year.
- The Mycostat®IV daily gallon usage is voluntarily limited to 377 gallons per day site-wide. This is an enforceable limitation as Alta will keep a daily drawdown record for Mycostat®IV. This record will be digitally updated by the stain room operator at the end of each shift and stored as a ShareDrive on the internal network.
- A voluntary limitation on VOC not to exceed 99 tons per year is accepted by Alta. This is an enforceable limitation as Alta will keep a daily drawdown records for Mycostat®IV, water-based colorants, and oil-based colorants. This record will be digitally updated by the stain room operatory at the end of each shift and stored as a ShareDrive on the internal network. Additionally beginning and ending inventories for all chemicals is performed weekly. The chemical-specific VOC concentrations can then be used to determine annual VOC emissions.
- No pollution control equipment is used unless required by a federal, Washington, or ORCAA performance standard.

2.1 EMISSIONS SOURCES

The coating operations consist of five coating lines. There are three water-based coating lines – Transverse, Coater 2, and EU2, in addition to two oil-based coaters – EU1 and EU8. EU2 and EU1 were included in permit

18NOC1302 and EU8 was being reviewed as part of 23NOC1587, but the others have not yet been permitted. These five coater lines were used as the emission units for calculations. Information from 2022 Alta production data, coater line operations, manufacturer data, and mill operations was employed to determine coater capacity and application rates.

2.2 POLLUTANT IDENITIFCATION

After identifying the emission sources, further investigation about what products were used on those coaters continued. Safety Data Sheets (SDSs), Environmental Data Sheets (EDSs), and manufacturer interviews were used to assess each coating material used in the process to determine chemical makeup and VOCs. These chemicals were then compared against the EPA's list of 188 HAPs under the Clean Air Act and Washington State Department of Ecology's (Ecology) list over 430 TAPs. The information gathered from this investigation and the pounds per gallon concentration of VOC per product are provided in **Table 1**.

Water-based colorants are run on Coater 2 and EU2. The three water-based colorant products originally contained TAPs. Alta worked with Rodda Paint Company to reformulate all water-based colorants to eliminate any HAPs or TAPs.

Mycostat®IV is run on Transverse, Coater 2, and EU2. According to the chemical makeup, it contains boric acid. Per WAC 173-460-150, boron and compounds not otherwise specific are considered a TAP. The small quantity emissions rate (SQER), acceptable source impact level (ASIL), and de minimis thresholds associated with this TAP are for all boron containing compounds. After discussion the Aaron Manley at ORCAA and Gary Palcisko with Ecology, these limits were altered based on the relative mass of boron in boric acid. Boric acid (H_3BO_3) has a molecular weight of 61.829 g/mol, therefore the relative mass of boron in boric acid is 17.5%. This was applied to the thresholds to create new thresholds specific to boric acid in Mycostat®IV.

Oil-based colorants are run on EU2 and EU8. The three oil-based colorants contain the same chemical constituents, which consist of five TAPs – 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; cumene; xylene; and ethyl benzene, with the latter three also being HAPs.

All applicable SQER, ASIL, and de minimis thresholds and their relative concentration within the coating product can be found in **Table 2**.

2.3 POTENITAL TO EMIT

Six TAPs, three HAPs, and VOC were determined during the pollutant identification process as potential air contaminants of emission from the coater operations at the Site. PTE calculations were performed for each coater line at the facility to include VOC and the relevant HAPS or TAPs. Emissions were then summed across the facility, by pollutant to determine the facility-wide PTE.

Since the facility is volunteering to take an annual VOC limitation of 99 tons, the facility-wide VOC PTE was based on some assumptive predictions to inevitably get the site to 99 tons in a year. The water-based operations were based on 2022 production numbers which will remain consistent into the future. The oil-based operation will change from those performed in 2022 with the introduction of EU8. Since EU8 is not currently installed and has no production metrics, it was used to determine the total number of board-feet that can pass through the machine to not go over the 99 ton VOC annual limit.

Boric acid is emitted from coater lines using Mycostat®IV. The maximum PTE in pounds per 24-hours was determined for Transverse, Coater 2, and EU2 and then combined for a facility-wide maximum emission since TAP thresholds cannot be exceeded for the site as a whole. These emissions were compared to the SQER in

accordance with WAC 173-460-070. These maximum PTE values exceed the SQER, therefore ambient impacts were further assessed using a screening level air dispersion model, as described in Section 3 of this document. The PTE were compared to the ASILs for each TAP and were still out of compliance. Through trial and error with modeling, the voluntary site-wide daily usage limit of 377 gallons was established for Mycostat®IV. The emissions calculations and first-tier analysis synopsis for Transverse, Coater 2, and EU2 can be found in **Table 3**, **Table 4**, and **Table 5**, respectively.

The oil-based colorants are comprised of five TAPs. Maximum PTE calculations per averaging period were determined for EU1 and EU8 and then combined for a facility total. These emissions were then compared to the SQER for each TAP. 1,3,5-trimethylbenzene; cumene; and xylene PTE were all below their respective SQERs. Therefore, ambient impact analysis was complete and compliance with WAC 173-460-070 has been demonstrated. The PTE for 1,2,4-trimethylbenzene and ethyl benzene, on the other hand, exceeded the respective SQERs. Therefore, ambient impacts were further assessed using a screening level air dispersion model, as described in Section 3 of this document. The maximum PTE was compared to the respective ASILs using AERSCREEN modeling, and resulting in compliance with WAC 173-460-070 as neither exceeded their respective ASILs. The emissions calculations and first-tier analysis synopsis for EU1 and EU8 can be found in **Table 6** and **Table 7**, respectively.

Cumene, xylene, and ethyl benzene are also considered HAPs. The maximum PTE was used to determine the total combined annual tons of HAPs. This resulted in a total of 0.259 tons per year, which is significantly below the 25 ton annual HAP limit. The facility is therefore within compliance for HAPs emissions.

3.0 AERSCREEN MODELING PREPARATION

In compliance with WAC 173-460-070, the United States Environmental Protection Agency's (EPA) air screening model (AERSCREEN v 4.03) was used to model emissions when PTE calculation exceeded TAP SQERs. This was the case for assessing facility-wide emissions of boric acid; 1,2,4-trimethylbenzene; and ethyl benzene emissions.

3.1 SOURCE PARAMETERS

Transverse, Coater 2, and EU2 were modeled as point sources using rain cap settings. EU1 and EU8 were modeled as volume sources due to the fugitive emissions coming from these sources. All emission sources used the rural setting. The individual source parameter settings are summarized in **Table 8**.

3.2 BUILDING

Transverse, Coater 2, and EU2 are housed within the Mill building, which was modeled as a single rectangular building shape configuration. EU1 and EU8 are located in the Dry Storage building. Building height, maximum dimension, minimum dimension, building orientation, stack direction, and stack offset were approximated based on Google Earth. The applicable input information for each individual emission source is summarized in **Table 9**.

3.3 MET DATA

Meteorological data was supplied by the National Centers for Environmental Information for the Shelton Airport, WA US weather station. This weather station is located approximately 7.9 miles from the facility. Minimum and maximum temperatures were determined as a monthly average from 2013 to 2023. Default settings were used for minimum wind speed. The anemometer height was set as 10.0 meters above surface elevation. Land Use Type 3 – Coniferous Forest and Climatology Type 2 – Wet Conditions were used. A summary of the Met Data is provided in **Table 10**.

3.4 RECEPTORS

The maximum receptor distance used in the modeling and Google Earth scaling was determined to be 3,280 feet (1,000 meters). Fence line distances were determined for each emission source and are provided in **Table 11**. There were no discrete receptors specified.

3.5 TERRAIN

The electronic terrain file was a Digital Elevation Model (DEM) imported into AERSCREEN from The National Map (TNM) Downloads website through the United States Geological Survey (USGS). Individual emission source coordinates are provided in **Table 12**.

4.0 AERSCREEN RESULTS

AERSCREEN modeling was employed for TAPs that did not pass compliance requirements through comparisons to their respective SQERs. Boric acid emission concentrations from Transverse, Coater 2, and EU2 were assessed through AERSCREEN and compared against its ASIL, resulting in an exceedance. Therefore, a site-wide voluntary daily usage limitation of 377 gallons for Mycostat®IV was accepted by Alta and modeled. Through AERSCREEN modeling, this limitation was determined to be in compliance with WAC 173-460-070 and below the TAP's ASIL, by modeling the entire 377 gallon limit per each emission unit. EU2 was determined as the limiting factor during assessment, but still resulted in an emission concentration below the ASIL. 1,2,4-trimethylbenzene and ethyl benzene emissions modeled through AERSCREEN resulted in emission concentrations below the TAP's ASIL and in compliance with WAC 173-460-070. Model output results are summarized in **Table 13** for boric acid and **Table 14** for 1,2,4-trimethylbenzene and ethyl benzene.

5.0 INFORMATION REQUEST

All modeling forms, terrain files, weather data, and model input information is available upon request. Excel files with calculated cells in available upon request.

6.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

September 29, 2023

Jonah Leurquin
Project Professional

September 29, 2023

Taryn Parsons
Project Manager

Reviewed by:

September 29, 2023

Nolan Lewis
Project Manager

7.0 CONTACT INFORMATION

USA Headquarters
5910 Rice Creek Parkway, Suite 100
St. Paul, MN 55126 USA

Toll Free +1 800 477 7411
International +1 651 639 9449

Tables

Table 1
VOCs by Product
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Oil Based Coating	SDS VOC (g/l)	VOC (lbs/gal)	Comments
AFP Pro Oxford Brown (609604)	94.9	0.792	No HAPs nor TAPs from listed ingredients in SDS. Spoke with manufacturer via email and they provided additional ingredients resulting in 5 TAPs (3 of which are also HAPs)
AFP Pro Cedar Tone (609601)	95.0	0.793	
APF Pro Leatherwood (609603)	94.4	0.788	

Chemical Anti-fungal Coating		SDS VOC (lbs/gal)	Comments
Mycostat® IV		4.32	One TAP

Water Based Stain	SDS VOC (g/l)	EDS VOC (lbs/gal)	Comments
CA Brown (77186)		0.00	Based on the Environmental Data Sheet (EDS), SDS, and conversations with the manufacturer, the reformulation for CA Brown (77186) by Rodda has no TAPs, HAPs, or VOCs.
Medium Brown (77166)		0.01	Rodda was tasked with formulating Pecan Stain (LP22A13C) as other manufacturers could not reformulate without HAPs or TAPs. Rodda was able to reformulate this color as Medium Brown (77166). Based on the Environmental Data Sheet, SDS, and conversations with the manufacturer, Medium Brown (77166) by Rodda has no TAPs or HAPs.
Alta Light Cedar (77183)		0.00	Based on the Environmental Data Sheet, SDS, and conversations with the manufacturer, the reformulation for Alta Light Cedar (77183) by Rodda has no TAPs, HAPs, or VOCs.

Notes
VOC = Volatile Organic Compound
HAP = Hazardous Air Pollutant
TAP = Toxic Air Pollutant
g/l = grams per liter
lbs/gal = pounds per gallon
SDS = Safety Data Sheet
EDS = Environmental Data Sheet

Table 2
Applicable Hazrdous Thresholds
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

WAC 173-460-150 Relevant Table Snippet						Chemical Information				
Common Name	**CAS#**	**Averaging Period**	**ASIL (µg/m3)**	**SQER (lb/averaging period)**	**De Minimis (lb/averaging period)**	**Chemical Name**	**% by Weight**	**Density (lbs/gal)**	**Chemical of Interest (lb/gal)**	**Notes**
Boric Acid	10043-35-3	24-hr	1714.29	125.71	6.29	Mycostat IV	9.00	7.927	0.71343	Calculated based on relative weight of boron in boric acid
1,2,4-Trimethylbenzene	95-63-6	24-hr	60.00	4.40	0.22	See table below provided by manufacturer for all oil based colorants via email on 5/30/2023				
1,3,5-Trimethylbenzene	108-67-8	24-hr	60.00	4.40	0.22					
Cumene	98-82-8	24-hr	400.00	30.00	1.50					Also a HAP
Xylene (mixture), including m-xylene, o-xylene, p-xylene	1330-20-7	24-hr	220.00	16.00	0.82					Also a HAP
Ethyl benzene	100-41-4	year	0.40	65.00	3.20					Also a HAP

CAS	Name	609601 - Cedar Tone		609603 - Leatherwood		609604 - Oxford Brown	
		WT%	lb./gal	WT%	lb./gal	WT%	lb./gal
95-63-6	1,2,4-Trimethylbenzene	0.0502%	0.0037474	0.0503%	0.0037499	0.0501%	0.0037475
108-67-8	1,3,5-Trimethylbenzene	0.0201%	0.0015005	0.0201%	0.0014985	0.0200%	0.0014960
98-82-8	Cumene	0.0020%	0.0001493	0.0020%	0.0001491	0.0020%	0.0001496
1330-20-7	Xylene	0.0040%	0.0002986	0.0029%	0.0002162	0.0049%	0.0003665
100-41-4	Ethyl Benzene	0.0008%	0.0000597	0.0006%	0.0000447	0.0011%	0.0000823

	Density (lb./gal)	Density (g/mL)
609601	7.465	0.896
609603	7.455	0.895
609604	7.48	0.898

Notes
VOC = Volatile Organic Compound
HAP = Hazardous Air Pollutant
TAP = Toxic Air Pollutant
g/l = grams per liter
lbs/gal = pounds per gallon
ASIL = Acceptable Source Impact Level
SQER = Small Quantity Emissions Rate
ug/m3 = micrograms per cubic meter
g/mL = grams per milliliter

Table 3
Transverse Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	Transverse (Aka Coater 1)
Coater Type	Water-based
Coater Rate (BF/hour)	15,700
2022 Production (BF)	4,737,564
Notes	Only runs Mycostat IV Mycostat IV contains VOC Mycostat IV contains one TAP - Boric Acid

Application Information	
Maximum Daily Production (BF)	65,450
Mycostat IV Annual Usage (gallons)	2,191
Mycostat IV Application Rate (Gal/BF)	0.0005
Mycostat IV VOC (lbs/gal)	4.32
TAP (lbs/gal) - Boric Acid	0.713

Emission Values	
Transverse Annual VOC (tons) - Mycostat IV	4.73
Total Annual VOC across facility (tons)	99.00
Total TAP - Boric Acid (ug/m3 in 24-hr)*	1,439

*If daily Mycostat IV site-wide limit of 377 gallons is run solely through Transverse

Common Name	CAS#	Averaging Period	SQER (lb/24-hr)	ASIL (ug/m3) in 24-hr
Boric Acid	10043-35-3	24-hr	126	1,714

TAP First Tier Review

PART A: Potential to Emit - Boric Acid

	Mycostat IV (gallons/24-hr)	Boric Acid (lbs/24-hr)	Below SQER? (Yes/No) Boric Acid SQER = 126 lb/24-hr	Notes
	174.21	124.28	No	Passes SQER for this source, but not when combined with Coater 2 and EU2, which also emit boric acid. Total combined value is 417.81 lb/24-hr.

PART B: AERSCREEN - Boric Acid

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Mycostat IV (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) Boric Acid ASIL = 1,714 ug/m3	Notes
Maximum Potential to Emit	174.21	5.18	664.6	Yes	Passes ASIL for this source, but not when combined with Coater 2 and EU2, which also emit boric acid. Total combined value is 2,434.4 ug/m3. (See **Table 13** in Emission Calculations and Modeling Report)
Potential to Emit with Site-Wide Gallons/24-hr Restriction	377.00	11.21	1,439	No	Passes ASIL for this source, as a combined total if the entire daily site-wide allotment of Mycostat IV gallons was solely run on Transverse. Alta will take a site-wide limit for Mycostat IV. This will be a limit of 377 total gallons of Mycostat IV for the entire site, which includes Mycostat IV usage at Transverse, Coater 2, and EU2 combined. Alta will track the site-wide Mycostat IV gallon usage daily. (See **Table 13** in Emission Calculations and Modeling Report)

Realistic Potential to Emit

Realistic Emissions based on production percentages for Transverse	30.26	1.08	138.6	No	The site-wide gallons/24-hr restriction of 377 gallons is very attainable. The projected site-wide daily Mycostat IV usage based on production percentages and a 20 hour work day is 231.15 gallons. This gives a percent difference of about 38.68%. Below the ASIL for this coater and for the site daily. When combined with the "realistic emissions based on production percentages" for the other coater lines this is a total daily emission of 1,208.9 ug/m3 which is below the ASIL. (See **Table 13** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 4
Coater 2 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	Coater 2
Coater Type	Water-based
Coater Rate (BF/hour)	14,544
2022 Production (BF)	5,380,858
Notes	Only runs Mycostat IV and water-based stains Mycostat IV and water-based stains contain VOC Mycostat IV contains one TAP - Boric Acid Water-based stains contain no HAPs or TAPs

Application Information	
Maximum Daily Production (BF)	74,328
Mycostat IV Annual Usage (gallons)	2,488
Mycostat IV Application Rate (Gal/BF)	0.0005
Water-Based Colorant Application Rate (Gal/BF)	0.0008
Mycostat IV VOC (lbs/gal)	4.32
Water-Based Colorant VOC (lbs/gal)	0.01
TAP (lbs/gal) - Boric Acid	0.713

Emission Values	
Coater 2 Annual VOC (tons) - Mycostat IV	5.37
Coater 2 Annual VOC (tons) - Medium Brown	0.02
Coater 2 Annual VOC (tons)	5.40
Total Annual VOC across facility (tons)	99.00
Total TAP - Boric Acid (ug/m3 in 24-hr)*	1,481

*If daily Mycostat IV site-wide limit of 377 gallons is run solely through Coater 2

Common Name	CAS#	Averaging Period	SQER (lb/24-hr)	ASIL (ug/m3) in 24-hr
Boric Acid	10043-35-3	24-hr	126	1,714

TAP First Tier Review

PART A: Potential to Emit - Boric Acid

	Mycostat IV (gallons/24-hr)	Boric Acid (lbs/24-hr)	Below SQER? (Yes/No) Boric Acid SQER = 126 lb/24-hr	Notes	
	161.38	115.13	No	Passes SQER for this source, but not when combined with Transverse and EU2, which also emit boric acid. Total combined value is 417.81 lb/24-hr.	

PART B: AERSCREEN - Boric Acid

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Mycostat IV (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) Boric Acid ASIL = 1,714 ug/m3	Notes
Maximum Potential to Emit	161.38	4.80	633.8	Yes	Passes ASIL for this source, but not when combined with Transverse and EU2, which also emit boric acid. Total combined value is 2,434.4 ug/m3. (See **Table 13** in Emission Calculations and Modeling Report)
Potential to Emit with Site-Wide Gallons/24-hr Restriction	377	11.21	1,481	No	Passes ASIL for this source, as a combined total if the entire daily site-wide allotment of Mycostat IV gallons was solely run on Coater 2. Alta will take a site-wide limit for Mycostat IV. This will be a limit of 377 total gallons of Mycostat IV for the entire site, which includes Mycostat IV usage at Transverse, Coater 2, and EU2 combined. Alta will track the site-wide Mycostat IV gallon usage daily. (See **Table 13** in Emission Calculations and Modeling Report)

Realistic Potential to Emit

Realistic Emissions based on production percentages for Coater 2	34.36	1.23	162.4	No	The site-wide gallons/24-hr restriction of 377 gallons is very attainable. The projected site-wide daily Mycostat IV usage based on production percentages and a 20 hour work day is 231.15 gallons. This gives a percent difference of about 38.68%. Below the ASIL for this coater and for the site daily. When combined with the "realistic emissions based on production percentages" for the other coater lines this is a total daily emission of 1,208.9 ug/m3 which is below the ASIL. (See **Table 13** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 5
EU2 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	EU2 (Aka Coater 3 Original)
Coater Type	Water-based
Coater Rate (BF/hour)	22,536
2022 Production (BF)	26,235,314
Notes	Only runs Mycostat IV and water-based stains Mycostat IV and water-based stains contain VOC Mycostat IV contains one TAP - Boric Acid Water-based stains contain no HAPs or TAPs

Application Information	
Maximum Daily Production (BF)	360,200
Mycostat IV Annual Usage (gallons)	12,056
Mycostat IV Application Rate (Gal/BF)	0.0005
Water-Based Colorant Application Rate (Gal/BF)	0.0008
Mycostat IV VOC (lbs/gal)	4.32
Water-Based Colorant VOC (lbs/gal)	0.01
TAP (lbs/gal) - Boric Acid	0.713

Emission Values	
EU2 Annual VOC (tons) - Mycostat IV	26.04
EU2 Annual VOC (tons) - Medium Brown	0.10
EU2 Annual VOC (tons)	26.15
Total Annual VOC across facility (tons)	99.00
Total TAP - Boric Acid (ug/m3 in 24-hr)*	1,712

*If daily Mycostat IV site-wide limit of 377 gallons is run solely through EU2

Common Name	CAS#	Averaging Period	SQER (lb/24-hr)	ASIL (ug/m3) in 24-hr
Boric Acid	10043-35-3	24-hr	126	1,714

TAP First Tier Review

PART A: Potential to Emit - Boric Acid

	Mycostat IV (gallons/24-hr)	Boric Acid (lbs/24-hr)	Below SQER? (Yes/No) Boric Acid SQER = 126 lb/24-hr	Notes
	250.06	178.40	No	Does not pass SQER for this source, nor when combined with Transverse and Coater 2, which also emit boric acid. Total combined value is 417.81 lb/24-hr.

PART B: AERSCREEN - Boric Acid

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Mycostat IV (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) Boric Acid ASIL = 1,714 ug/m3	Notes
Maximum Potential to Emit	250.06	7.43	1,136	Yes	Passes ASIL for this source, but not when combined with Transverse and Coater 2, which also emit boric acid. Total combined value is 2,434.4 ug/m3. (See **Table 13** in Emission Calculations and Modeling Report)
Potential to Emit with Site-Wide Gallons/24-hr Restriction	377	11.21	1,714	No	Passes ASIL for this source, as a combined total if the entire daily site-wide allotment of Mycostat IV gallons was solely run on EU2. Alta will take a site-wide limit for Mycostat IV. This will be a limit of 377 total gallons of Mycostat IV for the entire site, which includes Mycostat IV usage at Transverse, Coater 2, and EU2 combined. Alta will track the site-wide Mycostat IV gallon usage daily. (See **Table 13** in Emission Calculations and Modeling Report)

Realistic Potential to Emit

Realistic Emissions based on production percentages for EU2	166.53	5.94	907.9	No	The site-wide gallons/24-hr restriction of 377 gallons is very attainable. The projected site-wide daily Mycostat IV usage based on production percentages and a 20 hour work day is 231.15 gallons. This gives a percent difference of about 38.68%. Below the ASIL for this coater and for the site daily. When combined with the "realistic emissions based on producton ercentages" for the other coater lines this is a total daily emission of 1,208.9 ug/m3 which is below the ASIL. (See **Table 13** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 6
EU1 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	EU1
Coater Type	Oil-Based
Coater Rate (BF/hour)	6,800
Notes	Only runs oil-based stains All three oil-based stains contain VOC All three oil-based stains contain five TAPs (the last three are also HAPs) 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Cumene | Xylene (mixture), including m-xylene, o-xylene, p-xylene | Ethyl benzene

Application Information	
Annual Prediction (BF)	2,000,000
Oil-Based Colorant Application Rate (Gal/BF)	0.005
Oil-Based Colorant VOC (lbs/gal)	0.793
TAP (lbs/gal) - 1,2,4-Trimethylbenzene	0.0037499
TAP (lbs/gal) - 1,3,5-Trimethylbenzene	0.0015005
TAP (lbs/gal) - Cumene	0.0001496
TAP (lbs/gal) - Xylene	0.0003665
TAP (lbs/gal) - Ethyl benzene	0.0000823

Emission Values	
EU1 Annual VOC (tons)	3.99
Total Annual VOC (tons)	99.00
EU1 TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	8.33
EU1 TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	1.23
EU1 TAP - Cumene (lb/24-hr)	0.12
EU1 TAP - Xylene (lb/24-hr)	0.30
EU1 TAP - Ethyl benzene (ug/m3 in year)	0.030
Total TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	22.46
Total TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	3.58
Total TAP - Cumene (lb/24-hr)	0.36
Total TAP - Xylene (lb/24-hr)	0.87
Total TAP - Ethyl benzene (ug/m3 in year)	0.082

Common Name	CAS#	Averaging Period	SQER (lb/averaging period)	ASIL (ug/m3) in averaging period
1,2,4-Trimethylbenzene	95-63-6	24-hr	4.4	60.00
1,3,5-Trimethylbenzene	108-67-8	24-hr	4.4	60.00
Cumene	98-82-8	24-hr	30.0	400.00
Xylene (mixture), including m-xylene, o-xylene, p-xylene	1330-20-7	24-hr	16.0	220.00
Ethyl benzene	100-41-4	year	65.0	0.40

TAP First Tier Review

PART A: Potential to Emit

Oil-Based Stain (gallons/averaging period)	TAP of Interest	Emission (lbs/averaging period)	SQER (lb/averaging period)	Below SQER? (Yes/No)	Notes
820.90	1,2,4-Trimethylbenzene	3.08	4.4	No	Passes SQER for this source, but not when combined with EU8, which also emits this TAP. Total combined value is 8.95 lb/24-hr.
	1,3,5-Trimethylbenzene	1.23	4.4	Yes	Passes SQER for this source and when combined with EU8, which also emits this TAP. Total combined value is 3.58 lb/24-hr.
	Cumene	0.12	30.0	Yes	Passes SQER for this source and when combined with EU8, which also emits this TAP. Total combined value is 0.36 lb/24-hr. Cumene is also a HAP, of which the site emits a total of 0.0657 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	0.30	16.0	Yes	Passes SQER for this source and when combined with EU8, which also emits this TAP. Total combined value is 0.87 lb/24-hr. Xylene is also a HAP, of which the site emits 0.159 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
299,627	Ethyl benzene	24.65	65.0	No	Passes SQER for this source, but not when combined with EU8, which also emits this TAP. Total combined value is 71.63 lb/year. Ethyl benzene is also a HAP, of which the site emits 0.036 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.

PART B: AERSCREEN - 1,2,4-Trimethylbenzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 60 ug/m3	Notes
Maximum Potential to Emit	820.90	0.128	8.327	No	Passes ASIL for this source and when combined with EU8, which also emits this TAP. Total combined value is 22.46 ug/m3 over 24-hr. (See **Table 14** in Emission Calculations and Modeling Report)

PART B: AERSCREEN - Ethyl benzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/year)	Aerscreen Emission Rate (lbs/hr)	Scaled Annual Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 0.4 ug/m3	Notes
Maximum Potential to Emit	299,627.04	0.0028	0.03035	No	Passes ASIL for this source and when combined with EU8, which also emits this TAP. Total combined value is 0.082 ug/m3 over a year. (See **Table 14** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 7
EU8 Emissions Calculations
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Coater Information	
Coater Name	EU8 (AKA New Oil Coater)
Coater Type	Oil-Based
Coater Rate (BF/hour)	7,920
Notes	Only runs oil-based stains All three oil-based stains contain VOC All three oil-based stains contain five TAPs (the last three are also HAPs) 1,2,4-Trimethylbenzene | 1,3,5-Trimethylbenzene | Cumene | Xylene (mixture), including m-xylene, o-xylene, p-xylene | Ethyl benzene

Application Information	
Annual Prediction (BF)	18,000,000
Oil-Based Colorant Application Rate (Gal/BF)	0.008
Oil-Based Colorant VOC (lbs/gal)	0.793
TAP (lbs/gal) - 1,2,4-Trimethylbenzene	0.0037499
TAP (lbs/gal) - 1,3,5-Trimethylbenzene	0.0015005
TAP (lbs/gal) - Cumene	0.0001496
TAP (lbs/gal) - Xylene	0.0003665
TAP (lbs/gal) - Ethyl benzene	0.0000823

Emission Values	
EU8 Annual VOC (tons)	58.74
Total Annual VOC (tons)	99.00
EU8 TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	14.13
EU8 TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	2.35
EU8 TAP - Cumene (lb/24-hr)	0.23
EU8 TAP - Xylene (lb/24-hr)	0.57
EU8 TAP - Ethyl benzene (ug/m3 in year)	0.052
Total TAP - 1,2,4-Trimethylbenzene (ug/m3 in 24-hr)	22.46
Total TAP - 1,3,5-Trimethylbenzene (lb/24-hr)	3.58
Total TAP - Cumene (lb/24-hr)	0.36
Total TAP - Xylene (lb/24-hr)	0.87
Total TAP - Ethyl benzene (ug/m3 in year)	0.082

Common Name	CAS#	Averaging Period	SQER (lb/averaging period)	ASIL (ug/m3) in averaging period
1,2,4-Trimethylbenzene	95-63-6	24-hr	4.4	60.00
1,3,5-Trimethylbenzene	108-67-8	24-hr	4.4	60.00
Cumene	98-82-8	24-hr	30.0	400.00
Xylene (mixture), including m-xylene, o-xylene, p-xylene	1330-20-7	24-hr	16.0	220.00
Ethyl benzene	100-41-4	year	65.0	0.40

TAP First Tier Review

PART A: Potential to Emit

Oil-Based Stain (gallons/averaging period)	TAP of Interest	Emission (lbs/averaging period)	SQER (lb/averaging period)	Below SQER? (Yes/No)	Notes
1,564.36	1,2,4-Trimethylbenzene	5.87	4.4	No	Does not Pass SQER alone nor when combined with EU1, which also emits this TAP. Total combined value is 8.95 lb/24-hr.
	1,3,5-Trimethylbenzene	2.35	4.4	Yes	Passes SQER for this source and when combined with EU1, which also emits this TAP. Total combined value is 3.58 lb/24-hr.
	Cumene	0.23	30.0	Yes	Passes SQER for this source and when combined with EU1, which also emits this TAP. Total combined value is 0.35 lb/24-hr. Cumene is also a HAP, of which the site emits a total of 0.064 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
	Xylene (mixture), including m-xylene, o-xylene, p-xylene	0.57	16.0	Yes	Passes SQER for this source and when combined with EU1, which also emits this TAP. Total combined value is 0.87 lb/24-hr. Xylene is also a HAP, of which the site emits 0.159 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.
570,991	Ethyl benzene	46.98	65.0	No	Passes SQER for this source, but not when combined with EU1, which also emits this TAP. Total combined value is 71.63 lb/year. Ethyl benzene is also a HAP, of which the site emits 0.036 tons/year. When combined with all other HAPs, the site emits 0.259 tons per year, which is well below the annual combined limit of 25 tons.

PART B: AERSCREEN - 1,2,4-Trimethylbenzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/24-hr)	Aerscreen Emission Rate (lbs/hr)	Scaled 24-hr Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 60 ug/m3	Notes
Maximum Potential to Emit	1,564.36	0.244	14.13	No	Passes ASIL for this source and when combined with EU1, which also emits this TAP. Total combined value is 22.46 ug/m3 over 24-hr. (See **Table 14** in Emission Calculations and Modeling Report)

PART B: AERSCREEN - Ethyl benzene

See Section 3 of the Emission Calculations and Modeling Report for Aerscreen Specifications and Results

Emission Criteria	Oil-Based Stain (gallons/year)	Aerscreen Emission Rate (lbs/hr)	Scaled Annual Concentration (ug/m3)	Exceeds ASIL (Yes/No) ASIL = 0.4 ug/m3	Notes
Maximum Potential to Emit	570,990.82	0.0054	0.05213	No	Passes ASIL for this source and when combined with EU1, which also emits this TAP. Total combined value is 0.082 ug/m3 over a year. (See **Table 14** in Emission Calculations and Modeling Report)

Notes
BF = Board Feet
GAL = gallons
lbs = pounds
ug/m3 = micrograms per cubic meter
ASIL = Acceptble Source Impact Level
VOC = Volatile Organic Compounds
TAP = Toxic Air Pollutant

Table 8
Source Parameters
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Source Point	Stack Type	Type	Rural/Urban	Dimensions (ft)	Stack Height (ft)	Stack Diameter (ft)	Flow Rate (acfm)	Exit Temperature (F)
Transverse	Point	Raincap	Rural	--	8.0	0.833	375	80
Coater 2	Point	Raincap	Rural	--	8.0	0.667	425	80
EU2	Point	Raincap	Rural	--	8.0	0.667	425	80
EU1	Volume (Fugitive)	Default	Rural	H = 3.5, V = 0.1	0	--	--	--
EU8	Volume (Fugitive)	Default	Rural	H = 10.92,V = 0.1	0	--	--	--

Notes
-- = not applicable or not required
ft = feet
acfm = actual cubic feet per minute
F = degrees fahrenheit
H = horizontal dimension
V = vertical dimension

Table 9
Buildings
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Building Selection	Height (ft)	Maximum Dimension (ft)	Minimum Dimension (ft)	Building Orientation (deg from north)
Single Rectangular Building (Mill)	20	144	95.1	20
Dry Storage	Not Required for Volume Sources			

Emission Point	Stack Direction (deg from north)	Stack Offset (ft)
Transverse	180	0
Coater 2	180	0
EU2	180	0
EU1	--	0
EU8	--	0

Notes
deg from north = degrees from the north direction clockwise
ft = feet

Table 10
Met Data
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Minimum Temperature (F)	Maximum Temperature (F)	Minimum Wind Speed (ft/s)	Anemometer Height (ft)	Land Use Type	Climatology Type
32	80	1.64	32.81	3	2

Notes
ft/s = feet per second
ft = feet
Land Use Type 3 = Coniferous forest
Climatology Type 2 = Wet Conditions

Table 11
Receptors
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Emission Point	Distance to Fence Line (ft)	Maximum Receptor Distance (ft)
Transverse	570	3280.84
Coater 2	567	
EU2	519	
EU1	387	
EU8	390	

Notes
ft = feet

Table 12
Terrain
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Emission Point	Easting UTM (m)	Northing UTM (m)	UTM Zone
Transverse	490251.84	5218808.67	10
Coater 2	490263.76	5218809.17	10
EU2	490255.023	5218776.575	10
EU1	490111.7	5218691.94	10
EU8	490141.64	5218702.38	10

Source Base Elevation (ft) = 93

Notes

m = meters

Table 13
Model Output and Results Summary: Mycostat Coating Emissions
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Air Contaminant	Emission Source	Emission Rate (lb/hr)	Aerscreen Scaled 24-hour Concentration ($\mu g/m^3$)	Aerscreen Scaled 24-hour Concentration Facility Total ($\mu g/m^3$)	ASIL ($\mu g/m^3$)	Exceed ASIL Concentration (Yes or No)
Mycostat Coating Emissions: Maximum Potential to Emit						
Boric Acid	Transverse	5.180	664.6	2434.4	1714	Yes
	Coater 2	4.800	633.8			
	EU2	7.430	1136			
	Facility Total		**2434.4**			
Mycostat Coating Emissions: Potential to Emit With Site-wide gallons per 24-hour restriction						
Boric Acid	Transverse	11.210	1439	1714	1714	No
	Coater 2	11.210	1481			
	EU2	11.210	1714			
	Facility Maximum		**1714**			
Mycostat Coating Emissions: Potential to Emit based on Realistic Production Percentages						
Boric Acid	Transverse	1.080	138.6	1209	1714	No
	Coater 2	1.230	162.4			
	EU2	5.940	907.9			
	Facility Total		**1209**			

Notes
$\mu g/m^3$ = micrograms per cubic meter
lb/hr = pounds per hour
ASIL = acceptable source impact level

Table 14
Model Output and Results Summary: Oil Base Stain Emissions
Alta Forest Products - Shelton Mill
780 Wst State Route 108
Shelton, WA 98584

Oil Coating Emissions: Maximum Potential to Emit						
Air Contaminant	Emission Source	Emission Rate (lb/hr)	Aerscreen Scaled 24 hour Concentration ($\mu g/m^3$)	Aerscreen Scaled 24-hour Concentration Facility Total ($\mu g/m^3$)	ASIL ($\mu g/m^3$)	Exceed ASIL Concentration (Yes or No)
1,2,4-Trimethylbenzene	EU1	0.128	8.327	22.46	60	No
	EU8	0.244	14.13			
	Facility Total		**22.46**			
Ethyl Benzene	EU1	0.0028	0.03035	0.08248	0.4	No
	EU8	0.0054	0.05213			
	Facility Total		**0.08248**			

Notes
$\mu g/m^3$ = micrograms per cubic meter
lb/hr = pounds per hour
ASIL = acceptable source impact level

Figures

0 250 500

SCALE IN FEET

N

FIGURE 1

AREA MAP

ALTA FOREST PRODUCTS
SHELTON, WASHINGTON

PROJECT NO.	PREPARED BY	DRAWN BY	
ALTASHLSWP	JL	JH	anteagroup
DATE	REVIEWED BY	FILE NAME	
04/15/2021	KO	FIGURE2_SITE	

LEGEND

EMISSION POINT SOURCE

EMISSION VOLUME SOURCE

N

0 100 200

SCALE IN FEET

FIGURE 2
EMISSION SOURCE LOCATION MAP

ALTA FOREST PRODUCTS
SHELTON, WASHINGTON

PROJECT NO.	PREPARED BY	DRAWN BY
ALTA FOREST PRODUCTS	JL	JL
DATE	REVIEWED BY	FILE NAME
07/10/2023	TP	FIGURE 2

anteagroup