

WEYERHAEUSER COMPANY
LIMITED

KENORA TIMBERSTRAND®

2017 TOXIC SUBSTANCE
REDUCTION PLAN SUMMARY FOR

Ethyl Acetate

Prepared in Accordance with
The Toxics Reduction Act, 2009 and
O.Reg. 455/09 General
December, 2017

Statement of Intent and Objectives of the Plan

Statement of Intent: The facility uses Ethyl Acetate in the manufacture of TimberStrand®. This plan will address the use of Ethyl Acetate as a component of marking ink, ink marking system cleaners and other products used in the manufacture of the product known as TimberStrand. The plan intends to reduce the use of Ethyl Acetate.

Objective: The objective of the plan is to minimize the use of Ethyl Acetate.

Target: The facility has not set any targets for reduction in the use or creation of Ethyl Acetate.

Description of Toxic Substances Found at Kenora TimberStrand®

There are 13 toxic substances that require development of a Toxic Substance Reduction Plan based on the criteria set out in the Toxics Reduction Act, 2009 and O.Reg. 455/09.

The substances are:

Ethyl Acetate

- A component of marking ink, ink marking system cleaners and other products used in the manufacture of TimberStrand®

Carbon Monoxide*

- As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Phosphorus*

- A component of raw wood and carried through to the end product

Cadmium*

- A component of raw wood and carried through to the end product

Zinc*

- A component of raw wood and carried through to the end product
- As a component of an additive for a specific product produced

MDI*

- As an additive used as an adhesive to bind wood strands into a product

pMDI*

- As an additive used as an adhesive to bind wood strands into a product

Formaldehyde*

- As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Methanol*

- As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

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Nitrogen Dioxide*

- As a by-product of drying strands, heating mats to cure resin and burning of wood biomass

Total Particulate Matter (TPM)*

- As a by-product of drying strands, burning of wood biomass, the processing of TimberStrand in the manufacturing process and generation of road dust from site activity

Particulate Matter Less than 10 microns (PM₁₀)*

- As a by-product of drying strands, burning of wood biomass, the processing of TimberStrand in the manufacturing process and generation of road dust from site activity

Particulate Matter Less than 2.5 microns (PM_{2.5})*

- As a by-product of drying strands, burning of wood biomass, the processing of TimberStrand in the manufacturing process and generation of road dust from site activity

Note*: Separate plans have been developed for each of the other toxic substances.

Options to be Implemented

None. Ethyl Acetate is a component of products used in the manufacture of TimberStrand, mostly in the form of ink-jet ink, other marking inks or cleaners. The printing systems are designed to use ethyl acetate based products. The facility is not prepared to make changes to its printing systems at this time.

Facility Information:

Facility Name:	Kenora TimberStrand®
NPRI Identification Number:	7658
O. Reg. 127 Number:	9016
Two Digit NAICS Code:	32
Four Digit NAICS Code:	3212
Six Digit NAICS Code:	321215
Number of Full-time Employees:	151
UTM Spatial Coordinates:	Northing: 5515015N Easting: 401989E Zone: 15N

Owner of the Facility Information:

Name:	Weyerhaeuser Company Limited
Address:	1140 West Pender Street Suite 440, Vancouver, British Columbia
Postal Code:	V6E 4G1
Phone Number:	(604) 661-8037
Fax Number:	(604) 687-2314

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Highest Ranking Employee at the Facility Information

Name: Bill Candline
Title: Unit General Manager
Address: 1000 Jones Road PO Box 1930 Kenora, Ontario
Postal Code: P9N 3X8
Phone Number: (807) 548-7153
Fax Number: (807) 548-7134
Email: bill.condline@weyerhaeuser.com

Parent Company Information

Legal Name of Parent Company: Weyerhaeuser NR Company
Address of Parent Company: 220 Occidental Avenue South
Seattle, WA 98104
Percentage of Facility Owned by Company: 100%
CCRA Business Number: 103440624

Toxic Substances for Which Facility Must Prepare Plan:

Substance 1 (covered in a different plan):	Carbon Monoxide
CAS Number:	630-08-0
Substance 2 (covered in a different plan):	Total Particulate Matter (TPM)
CAS Number:	NA
Substance 3 (covered by this plan):	Ethyl Acetate
CAS Number:	NA
Substance 4 (covered in a different plan)	Cadmium
CAS Number:	NA-03
Substance 5 (covered in a different plan):	Zinc
CAS Number:	NA-14
Substance 6 (covered in a different plan):	Formaldehyde
CAS Number:	50-00-0
Substance 7 (covered in a different plan):	Methanol
CAS Number:	67-56-1
Substance 8 (covered in a different plan):	MDI
CAS Number:	101-68-8
Substance 9 (covered in a different plan):	Nitrogen Dioxide
CAS Number:	11104-93-1
Substance 10 (covered in a different plan):	pMDI
CAS Number:	9016-87-9
Substance 11 (covered in a different plan):	Particulate Matter < 10 Microns (PM ₁₀)
CAS Number:	NA

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Substance 12 (covered in a different plan): Particulate Matter < 2.5 Microns (PM_{2.5})
CAS Number: NA

Substance 13 (covered under this plan) Ethyl Acetate
CAS Number 141-78-6

Plan Contacts:

Person Coordinating the Preparation of the plan:

Name: Ashley Nordlund
Position: Environmental Coordinator
Address: 1000 Jones Road PO Box 1930 Kenora, Ontario
Postal Code: P9N 3X8
Phone Number: (807) 548-7240
Fax Number: (807) 548-7200
Email: Ashley.nordlund@weyerhaeuser.com

Person Who Prepared the Plan:

Name: R. Cecil Burns
Position: Consultant
Address: 611 2nd Ave S., Kenora, Ontario
Postal Code: P9N 1X6
Phone Number: (807) 468-5542
Fax Number: None
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Public Contact:

Name: Greg (Salem) Miller
Position: Manager Public Affairs
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Phone Number: (971) 240-4783
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Email: greg.miller@weyerhaeuser.com

Technical Contact:

Name: Ashley Nordlund
Position: Environmental Coordinator
Address: 1000 Jones Road PO Box 1930 Kenora, Ontario
Postal Code: P9N 3X8
Phone Number: (807) 548-7240
Fax Number: (807) 548-7200
Email: ashley.nordlund@weyerhaeuser.com

Planner Who Provided Recommendations:

Name: R. Cecil Burns
Planner Licence #: TSRP0067

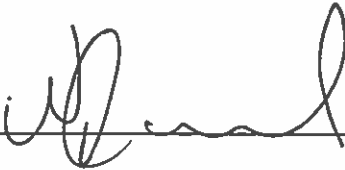
Plan Summary Statement

This plan summary accurately reflects the content of the Toxic Substance Reduction Plan for Ethyl Acetate, prepared by Weyerhaeuser Kenora TimberStrand, dated December, 2017.

Certification by Highest Ranking Employee

As of December 16, 2017, I, Bill Candline, certify that I have read the Toxic Substance Reduction Plan for the Toxic Substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act, 2009* and *Ontario Regulation 455/09 (General)* made under that Act.

Ethyl Acetate



Bill Candline
Unit General Manager
Weyerhaeuser Kenora TimberStrand

Certification by Licensed Planner

As of December 16, 2017, I, R. Cecil Burns, certify that I am familiar with the processes at the Weyerhaeuser Kenora TimberStrand facility that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraph 7 iii, iv and v of subsection 4(1) of the *Toxics Reduction Act, 2009* that are set out in the plan dated December, 2017 and that the plan complies with that Act and *Ontario Regulation 455/09 (General)* made under that Act.

Ethyl Acetate



R. Cecil Burns, CET, EP, CMVP, LTSRP.
(Planner Licence # TSRP0067)