

National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA,ON MOE
Report Status:	Submitted
Modified Date/Time:	31/05/2017 2:04 PM

Company and Facility Details

Company Name:	Krug Furniture Inc.
Business Number:	878328426
Mailing Address:	Address Line 1: 421 Manitou Drive City, Province/Territory, Postal Code: Kitchener Ontario N2C1L5 Country: Canada
Facility Name:	Seating
NAICS Code:	337213
NPRI ID:	5882
ON Reg 127/01 ID:	05787
Physical Address:	Address Line 1: 111 Ahrens Street City, Province/Territory, Postal Code: Kitchener Ontario N2H4C2 Country: Canada Latitude: 43.45640 Longitude: -80.49280 UTM Zone: 17 UTM Easting: 541034 UTM Northing: 4811624

Contacts Details

Contact Type	Technical Contact, Certifying Official
Name:	Leslie Creek
Position:	Quality Assurance/Health & Safety Supervisor
Telephone:	5197485100
Fax:	5197485177
Email:	lcreek@krug.ca
Contact Type	Contractor Contact, Person who prepared the report
Name:	Alicia Wind
Position:	Resource Conservation Specialist
Telephone:	5195785100
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Email: awind@enviro-stewards.com

Independent contractor/consultant company name: Enviro-Stewards Inc.

Contact Type: Highest Ranking Employee

Name: Rob Hawes

Position: Director of Operations

Telephone: 5197485100

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Email: rhawes@krug.ca

Mailing Address: Delivery Mode: GeneralDelivery
Address Line 1: 421 Manitou Drive
City, Province/Territory, Postal Code: Kitchener Ontario N2C1L5
Country: Canada

General Information

Number of employees: 155

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene: None of the above

Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs): Wood preservation using creosote: No

Is this the first time the facility is reporting to the NPRI (under current or past ownership): No

Is the facility controlled by another Canadian company or companies: No

Did the facility report under other environmental regulations or permits: No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants): Yes

Was the facility shut down for more than one week during the year: No

Operating Schedule - Days of the Week: Mon, Tue, Wed, Thu, Fri

Usual Number of Operating Hours per day: 8

Usual Daily Start Time (24h) (hh:mm): 07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
67-64-1	Acetone	1.2860	N/A	N/A	N/A	tonnes
67-63-0	Isopropyl alcohol	1.0790	N/A	N/A	0.4910	tonnes
67-56-1	Methanol	0.5240	N/A	N/A	0.2400	tonnes
78-93-3	Methyl ethyl ketone	1.0850	N/A	N/A	0.4860	tonnes
108-88-3	Toluene	0.9010	N/A	N/A	0.4120	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	15.7740	11.7280	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	1.2300	N/A	N/A	0.5550	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
67-64-1	Acetone		No	No	No
67-63-0	Isopropyl alcohol	Yes	Yes		No
67-56-1	Methanol	No	No		No
78-93-3	Methyl ethyl ketone	Yes	Yes		Yes
108-88-3	Toluene	No	No		No

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
1330-20-7	Xylene (all isomers)	Yes	Yes		No



An error occurred while rendering the 'TRA Exit Record' section.

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
67-64-1	Acetone	Yes	No	No
67-63-0	Isopropyl alcohol	Yes	No	No
67-56-1	Methanol	Yes	Yes	No
78-93-3	Methyl ethyl ketone	Yes	No	No
108-88-3	Toluene	Yes	Yes	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
1330-20-7	Xylene (all isomers)	Yes	No	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
67-64-1	Acetone	No	No	Yes
67-63-0	Isopropyl alcohol	No	No	Yes
67-56-1	Methanol	No	No	Yes
78-93-3	Methyl ethyl ketone	No	No	Yes
108-88-3	Toluene	No	No	Yes
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)	No	No	Yes

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
67-64-1	Acetone			As a manufacturing aid
67-63-0	Isopropyl alcohol			As a manufacturing aid
67-56-1	Methanol			As a manufacturing aid
78-93-3	Methyl ethyl ketone			As a manufacturing aid
108-88-3	Toluene			As a manufacturing aid
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)			As a manufacturing aid

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
67-56-1	Methanol	Added	There was an inadvertent error last year and it should be in the list.

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
67-63-0	Isopropyl alcohol	Use	1.566 tonnes	Yes
67-63-0	Isopropyl alcohol	Creation	0 tonnes	No
67-63-0	Isopropyl alcohol	Contained in Product	0 tonnes	No
78-93-3	Methyl ethyl ketone	Use	1.560 tonnes	No
78-93-3	Methyl ethyl ketone	Creation	0 tonnes	No
78-93-3	Methyl ethyl ketone	Contained in Product	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	22.941 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation		Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		
1330-20-7	Xylene (all isomers)	Use	1.778 tonnes	No
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	No

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
1330-20-7	Xylene (all isomers)	Contained in Product	0 tonnes	No

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
64-17-5	Ethanol	Use	3.860 tonnes
67-63-0	Isopropyl alcohol	Use	1.566 tonnes
67-56-1	Methanol	Use	0.763 tonnes
78-93-3	Methyl ethyl ketone	Use	1.560 tonnes
123-86-4	n-Butyl acetate	Use	6.171 tonnes
123-86-4	n-Butyl acetate	Creation	0 tonnes
108-88-3	Toluene	Use	1.314 tonnes
1330-20-7	Xylene (all isomers)	Use	1.778 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	17.012 tonnes
Creation	0 tonnes

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
67-63-0	Isopropyl alcohol					No
78-93-3	Methyl ethyl ketone					No
NA - M16	Volatile Organic Compounds (VOCs)					No
1330-20-7	Xylene (all isomers)					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-64-1	Acetone	Fugitive Releases	C - Mass Balance		1.286 tonnes
67-63-0	Isopropyl alcohol	Fugitive Releases	C - Mass Balance		1.079 tonnes
78-93-3	Methyl ethyl ketone	Fugitive Releases	C - Mass Balance		1.085 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	C - Mass Balance		15.774 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		15.774 tonnes
1330-20-7	Xylene (all isomers)	Fugitive Releases	C - Mass Balance		1.230 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
67-64-1	Acetone	1.286 tonnes
67-63-0	Isopropyl alcohol	1.079 tonnes
78-93-3	Methyl ethyl ketone	1.085 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	15.774 tonnes
1330-20-7	Xylene (all isomers)	1.230 tonnes

On-site Releases - Releases to air - VOC Breakdown List

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	64-17-5	Ethanol	2.652 tonnes
Other Sources - Speciated VOCs	67-63-0	Isopropyl alcohol	1.079 tonnes
Other Sources - Speciated VOCs	67-56-1	Methanol	0.524 tonnes
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	1.085 tonnes
Other Sources - Speciated VOCs	123-86-4	n-Butyl acetate	4.257 tonnes
Other Sources - Speciated VOCs	108-88-3	Toluene	0.901 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	1.230 tonnes

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-56-1	Methanol	Total Quantity Released	O - Engineering Estimates		0.524 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
108-88-3	Toluene	Total Quantity Released	O - Engineering Estimates		0.901 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
67-63-0	Isopropyl alcohol	1.079 tonnes
78-93-3	Methyl ethyl ketone	1.085 tonnes
1330-20-7	Xylene (all isomers)	1.230 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
67-63-0	Isopropyl alcohol	25	25	25	25
67-56-1	Methanol	25	25	25	25
78-93-3	Methyl ethyl ketone	25	25	25	25
108-88-3	Toluene	25	25	25	25
1330-20-7	Xylene (all isomers)	25	25	25	25

On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M16	Volatile Organic Compounds (VOCs)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
108-88-3	Toluene	Changes in production levels Other (specify in On-site Releases comment field)	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
1330-20-7	Xylene (all isomers)	Changes in production levels	
67-56-1	Methanol	Changes in production levels	
67-63-0	Isopropyl alcohol	Changes in production levels	
78-93-3	Methyl ethyl ketone	Changes in production levels Other (specify in On-site Releases comment field)	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels Other (specify in On-site Releases comment field)	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
67-56-1	Methanol		No significant change (i.e. < 10%) or no change	
67-63-0	Isopropyl alcohol		No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone		No significant change (i.e. < 10%) or no change	

Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-63-0	Isopropyl alcohol	Recovery of Solvents	O - Engineering Estimates		0.491 tonnes
67-56-1	Methanol	Recovery of Solvents	O - Engineering Estimates		0.24 tonnes
78-93-3	Methyl ethyl ketone	Recovery of Solvents	O - Engineering Estimates		0.486 tonnes
108-88-3	Toluene	Recovery of Solvents	O - Engineering Estimates		0.412 tonnes
1330-20-7	Xylene (all isomers)	Recovery of Solvents	O - Engineering Estimates		0.555 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
67-63-0	Isopropyl alcohol	0.491 tonnes
67-56-1	Methanol	0.24 tonnes
78-93-3	Methyl ethyl ketone	0.486 tonnes
108-88-3	Toluene	0.412 tonnes

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
1330-20-7	Xylene (all isomers)	0.555 tonnes

Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
108-88-3	Toluene	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.412 tonnes
1330-20-7	Xylene (all isomers)	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.555 tonnes
67-56-1	Methanol	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.24 tonnes
67-63-0	Isopropyl alcohol	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.491 tonnes
78-93-3	Methyl ethyl ketone	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.486 tonnes

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
108-88-3	Toluene	Unusable parts or discards	Changes in production levels Other (specify in recycling comments field)	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
1330-20-7	Xylene (all isomers)	Unusable parts or discards	Changes in production levels	
67-56-1	Methanol	Unusable parts or discards	Changes in production levels	
67-63-0	Isopropyl alcohol	Unusable parts or discards	No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone	Unusable parts or discards	No significant change (i.e. < 10%) or no change	

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
64-17-5	Ethyl Alcohol	Yes	Enters the facility (Use)	3.860 tonnes	4.778 tonnes	2015	-0.918	-19.21
67-63-0	Isopropyl alcohol	No	Enters the facility (Use)	1.566 tonnes	1.778 tonnes	2015	-0.212	-11.92
67-63-0	Isopropyl alcohol	No	Creation	0 tonnes	0 tonnes	2015	0	
67-63-0	Isopropyl alcohol	No	Contained in Product	0 tonnes	0 tonnes	2015	0	
67-63-0	Isopropyl alcohol	Yes	Enters the facility (Use)	1.566 tonnes	1.778 tonnes	2015	-0.212	-11.92
123-86-4	n-Butyl acetate	Yes	Enters the facility (Use)	6.171 tonnes	8.309 tonnes	2015	-2.138	-25.73
123-86-4	n-Butyl acetate	Yes	Creation	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	1.778 tonnes	2.510 tonnes	2015	-0.732	-29.16
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	No	Contained in Product	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	1.778 tonnes	2.510 tonnes	2015	-0.732	-29.16

Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Other	Materials used depend on customer orders and have varying levels of toxic substances.
NA - M16	Volatile Organic Compounds (VOCs)	Decrease in production levels Other	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
1330-20-7	Xylene (all isomers)	Decrease in production levels	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
64-17-5	Ethyl Alcohol	Yes	Total Releases to Air	2.652 tonnes	3.529 tonnes	2015	-0.877	-24.85
67-63-0	Isopropyl alcohol	No	Total Releases to Air	1.079 tonnes	1.315 tonnes	2015	-0.236	-17.95
67-63-0	Isopropyl alcohol	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-63-0	Isopropyl alcohol	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
67-63-0	Isopropyl alcohol	No	Total Releases to All Media	0 tonnes	1.127 tonnes	2012	-1.127	-100
67-63-0	Isopropyl alcohol	Yes	Total Releases to Air	1.079 tonnes	1.315 tonnes	2015	-0.236	-17.95
67-56-1	Methanol	Yes	Total Releases to Air	0.524 tonnes	1.008 tonnes	2015	-0.484	-48.02
78-93-3	Methyl ethyl ketone	Yes	Total Releases to Air	1.085 tonnes	1.149 tonnes	2015	-0.064	-5.57
123-86-4	n-Butyl acetate	Yes	Total Releases to Air	4.257 tonnes	6.155 tonnes	2015	-1.898	-30.84
108-88-3	Toluene	Yes	Total Releases to Air	0.901 tonnes	1.152 tonnes	2015	-0.251	-21.79
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	1.230 tonnes	1.860 tonnes	2015	-0.630	-33.87
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0 tonnes				
1330-20-7	Xylene (all isomers)	Yes	Total Releases to Air	1.230 tonnes	1.860 tonnes	2015	-0.630	-33.87

Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Other	Materials used depend on customer orders and have varying concentrations of toxic substances.
NA - M16	Volatile Organic Compounds (VOCs)	Decrease in production levels Other	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
1330-20-7	Xylene (all isomers)	Decrease in production levels	

Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-63-0	Isopropyl alcohol	No	Total off-site Transfers for Recycling	0.491 tonnes	0.467 tonnes	2015	0.024	5.14
1330-20-7	Xylene (all isomers)	No	Total off-site Transfers for Recycling	0.555 tonnes	0.658 tonnes	2015	-0.103	-15.65

Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	No reasons - quantities approximately the same	
1330-20-7	Xylene (all isomers)	Decrease in production levels	

Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

Did the facility complete any pollution prevention activities in the current NPRI reporting year

No

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
64-17-5	Ethanol	The objective is to reduce the use of ethyl alcohol through equipment modification, onsite reuse or recycling, and improved inventory management or purchasing techniques.
67-63-0	Isopropyl alcohol	The objective is to reduce the use of IPA through improved inventory management or purchasing techniques.
67-56-1	Methanol	The objective is to reduce methanol use through technological and procedural means.
78-93-3	Methyl ethyl ketone	The objective is to reduce the use of this substance through materials or feedstock substitution.
123-86-4	n-Butyl acetate	The objective is to reduce the use of butyl acetate through equipment modification, onsite reuse or recycling, and improved inventory management or purchasing techniques.
108-88-3	Toluene	The objective is to reduce the use of toluene through procedural means.

CAS RN	Substance Name	Objectives
1330-20-7	Xylene (all isomers)	The objective is to reduce the use of xylene through procedural means.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
64-17-5	Ethanol	No quantity target	No timeline target	
67-63-0	Isopropyl alcohol	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	2	Install solvent saver paint line and gun cleaner, reuse thinner for initial cleaning, and maintain inventory more accurately.
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
123-86-4	n-Butyl acetate	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	1	Maintain inventory more accurately.
1330-20-7	Xylene (all isomers)	No quantity target	1	Maintain inventory more accurately.

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
64-17-5	Ethanol	No quantity target	No timeline target	
67-63-0	Isopropyl alcohol	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
123-86-4	n-Butyl acetate	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
64-17-5	Ethanol	Other	No steps were taken as one production area was moved to another facility and there is less demand for wood products so this option will no longer be pursued.	It was determined that this option is not feasible at this time. No steps were taken during the reporting period.	The steps taken are the same as those described in the plan.	It was determined that this option is not feasible at this time. No steps were taken during the reporting period.
64-17-5	Ethanol	Other	Already implemented as an internal procedure in 2013	Already implemented as an internal procedure in 2013	The steps taken are the same as those described in the plan.	Already implemented as an internal procedure in 2013
64-17-5	Ethanol	Other	No steps were taken as the option was implemented. However, it was determined to be no longer technically feasible so is no longer being pursued.	No steps were taken.	The steps taken are the same as those described in the plan.	No steps were taken.
67-63-0	Isopropyl alcohol	Other	Already implemented as an internal procedure in 2013	Already implemented as an internal procedure in 2013	The steps taken are the same as those described in the plan.	Already implemented as an internal procedure in 2013
67-56-1	Methanol	Modified stripping / cleaning devices	No steps were taken as one production area was moved to another facility and there is less demand for wood products so this option will no longer be pursued.	It was determined that this option is not feasible at this time. No steps were taken during the reporting period.	The steps taken are the same as those described in the plan.	It was determined that this option is not feasible at this time. No steps were taken during the reporting period.
67-56-1	Methanol	Other	Already implemented as an internal procedure in 2013	Already implemented as an internal procedure in 2013	The steps taken are the same as those described in the plan.	Already implemented as an internal procedure in 2013
67-56-1	Methanol	Other	No steps were taken as the option was implemented. However, it was determined to be no longer technically feasible so is no longer being pursued.	No steps were taken.	The steps taken are the same as those described in the plan.	No steps were taken.
78-93-3	Methyl ethyl ketone	Substituted materials	No steps were taken as the plan was created in the reporting year.	No steps were taken as the plan was created in the reporting year.	The steps taken are the same as those described in the plan.	No steps were taken as the plan was created in the reporting year.
123-86-4	n-Butyl acetate	Other	No steps were taken as one production area was moved to another facility and there is less demand for wood products so this option will no longer be pursued.	It was determined that this option is not feasible at this time. No steps were taken during the reporting period.	The steps taken are the same as those described in the plan.	It was determined that this option is not feasible at this time. No steps were taken during the reporting period.

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
123-86-4	n-Butyl acetate	Other	Already implemented as an internal procedure in 2013	Already implemented as an internal procedure in 2013	The steps taken are the same as those described in the plan.	Already implemented as an internal procedure in 2013
123-86-4	n-Butyl acetate	Other	No steps were taken as the option was implemented. However, it was determined to be no longer technically feasible so is no longer being pursued.	No steps were taken.	The steps taken are the same as those described in the plan.	No steps were taken.
108-88-3	Toluene	Other	Already implemented as an internal procedure in 2012	Already implemented as an internal procedure in 2012	The steps taken are the same as those described in the plan.	Already implemented as an internal procedure in 2012
1330-20-7	Xylene (all isomers)	Other	Already implemented as an internal procedure in 2012	Already implemented as an internal procedure in 2012	The steps taken are the same as those described in the plan.	Already implemented as an internal procedure in 2012

Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64-17-5	Ethanol	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Modified stripping / cleaning devices	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
108-88-3	Toluene	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.002 tonnes
108-88-3	Toluene	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	0.001 tonnes
108-88-3	Toluene	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	0.001 tonnes
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.009 tonnes
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	0.005 tonnes
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	0.004 tonnes

Progress on TRA Plan - Reductions due to Options Implemented - Materials or feedstock substitution

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
78-93-3	Methyl ethyl ketone	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - On-site reuse, recycling or recovery

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64-17-5	Ethanol	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64-17-5	Ethanol	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64-17-5	Ethanol	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
67-56-1	Methanol	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
123-86-4	n-Butyl acetate	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
64-17-5	Ethanol	No		
67-63-0	Isopropyl alcohol	No		
67-56-1	Methanol	No		
78-93-3	Methyl ethyl ketone	No		
123-86-4	n-Butyl acetate	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
64-17-5	Ethanol	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
123-86-4	n-Butyl acetate	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
123-86-4	n-Butyl acetate	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
123-86-4	n-Butyl acetate	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
123-86-4	n-Butyl acetate	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to the additional actions.	
123-86-4	n-Butyl acetate	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
123-86-4	n-Butyl acetate	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
123-86-4	n-Butyl acetate	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
64-17-5	Ethanol	No		
67-63-0	Isopropyl alcohol	No		
67-56-1	Methanol	No		
78-93-3	Methyl ethyl ketone	No		
123-86-4	n-Butyl acetate	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Krug Furniture Inc.

Certifying Official (or authorized delegate)

Leslie Creek

Report Submitted by

Rob Hawes

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 31/05/2017, I, Rob Hawes, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN	Substance Name
67-63-0	Isopropyl alcohol
78-93-3	Methyl ethyl ketone
1330-20-7	Xylene (all isomers)

Exit Record Certification Statement

As of 31/05/2017, I Rob Hawes, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances referred to below at Seating and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
67-56-1	Methanol
108-88-3	Toluene
67-64-1	Acetone

Company Name

Krug Furniture Inc.

Highest Ranking Employee

Rob Hawes

Report Submitted by

Rob Hawes

Website address

www.krug.ca

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	31/05/2017	Seating	Ontario	Kitchener	NPRI,ON MOE TRA,ON MOE

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by



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