

National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year	2014
Report Type:	NPRI,ON MOE TRA,ON MOE
Report Status:	Update 2 - Submitted
Modified Date/Time:	15/05/2017 9:01 AM
Report Update Comments:	An exit record should have been created for 2-butoxyethanol.

Company and Facility Details

Company Name:	Krug Furniture Inc.
Business Number:	878328426
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 421 Manitou Drive City, Province/Territory, Postal Code: Kitchener Ontario N2C1L5 Country: Canada
Facility Name:	MANITOU CASEGOODS
NAICS Code:	337213
NPRI ID:	5881
ON Reg 127/01 ID:	5777
Physical Address:	Address Line 1: 421 Manitou Drive City, Province/Territory, Postal Code: Kitchener Ontario N2C1L5 Country: Canada Latitude: 43.40360 Longitude: -80.44950 UTM Zone: 17 UTM Easting: 544576 UTM Northing: 4805783

Contacts Details

Contact Type	Technical Contact, Certifying Official
Name:	Leslie Creek
Position:	Quality Assurance/Health & Safety Supervisor
Telephone:	5197485100
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Email:	lcreek@krug.ca
Contact Type	Contractor Contact, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan
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
Fax:	5197485177
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:	240
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:	16.75
Usual Daily Start Time (24h) (hh:mm):	07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
111-76-2	2-Butoxyethanol	0.8580	N/A	N/A	0.2300	tonnes
67-64-1	Acetone	3.2180	N/A	N/A	N/A	tonnes
67-56-1	Methanol	1.7900	N/A	N/A	0.8740	tonnes
108-88-3	Toluene	8.9820	N/A	N/A	4.4770	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	42.7780	35.0430	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	2.8950	N/A	N/A	1.2080	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
111-76-2	2-Butoxyethanol	No	No		No
67-64-1	Acetone		Yes	Yes	No
67-56-1	Methanol	Yes	Yes		No

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
108-88-3	Toluene	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
1330-20-7	Xylene (all isomers)	Yes	Yes		No

TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
111-76-2	2-Butoxyethanol	The substance did not meet the criteria to provide information to NPRI	Varying material concentration, varying customer orders.	Purchasing records and material concentrations.

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
111-76-2	2-Butoxyethanol	Yes	Yes	No
67-56-1	Methanol	Yes	No	No
108-88-3	Toluene	Yes	No	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
111-76-2	2-Butoxyethanol	No	No	Yes
67-56-1	Methanol	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
111-76-2	2-Butoxyethanol			As a manufacturing aid
67-56-1	Methanol			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
111-76-2	2-Butoxyethanol	Added	An exit record should have been created.

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
67-64-1	Acetone	Use	4.609 tonnes	Yes
67-64-1	Acetone	Creation	0 tonnes	No
67-64-1	Acetone	Contained		
67-56-1	Methanol	Use	2.664 tonnes	Yes
67-56-1	Methanol	Creation	0 tonnes	No
67-56-1	Methanol	Contained	0 tonnes	No
108-88-3	Toluene	Use	13.459 tonnes	Yes
108-88-3	Toluene	Creation	0 tonnes	No
108-88-3	Toluene	Contained	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	62.676 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation		Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained		

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
1330-20-7	Xylene (all isomers)	Use	4.103 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	No
1330-20-7	Xylene (all isomers)	Contained	0 tonnes	No

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained	Quantity
64-17-5	Ethanol	Use	10.520 tonnes
141-78-6	Ethyl acetate	Use	3.436 tonnes
67-63-0	Isopropyl alcohol	Use	2.126 tonnes
64742-95-6	Light aromatic solvent naphtha	Use	1.685 tonnes
67-56-1	Methanol	Use	2.664 tonnes
78-93-3	Methyl ethyl ketone	Use	7.592 tonnes
123-86-4	n-Butyl acetate	Use	4.616 tonnes
64742-89-8	Solvent naphtha light aliphatic	Use	1.879 tonnes
108-88-3	Toluene	Use	13.459 tonnes
108-88-3	Toluene	Creation	0 tonnes
1330-20-7	Xylene (all isomers)	Use	4.103 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained	Quantity
Use	52.080 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	Incidents out of the normal course of events	Significant Process Change
67-64-1	Acetone					No
67-56-1	Methanol					No
108-88-3	Toluene					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		3.218 tonnes
67-56-1	Methanol	Fugitive Releases	C - Mass Balance		1.790 tonnes
108-88-3	Toluene	Fugitive Releases	C - Mass Balance		8.982 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	C - Mass Balance		42.778 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		42.778 tonnes
1330-20-7	Xylene (all isomers)	Fugitive Releases	C - Mass Balance		2.895 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
67-64-1	Acetone	3.218 tonnes
67-56-1	Methanol	1.790 tonnes
108-88-3	Toluene	8.982 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	42.778 tonnes
1330-20-7	Xylene (all isomers)	2.895 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	64-17-5	Ethanol	7.540 tonnes
Other Sources - Speciated VOCs	141-78-6	Ethyl acetate	2.290 tonnes
Other Sources - Speciated VOCs	67-63-0	Isopropyl alcohol	1.416 tonnes
Other Sources - Speciated VOCs	64742-95-6	Light aromatic solvent naphtha	1.136 tonnes
Other Sources - Speciated VOCs	67-56-1	Methanol	1.790 tonnes

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	4.355 tonnes
Other Sources - Speciated VOCs	123-86-4	n-Butyl acetate	3.274 tonnes
Other Sources - Speciated VOCs	64742-89-8	Solvent naphtha light aliphatic	1.365 tonnes
Other Sources - Speciated VOCs	108-88-3	Toluene	8.982 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	2.895 tonnes

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
111-76-2	2-Butoxyethanol	Total Quantity Released	O - Engineering Estimates		0.858 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
67-56-1	Methanol	1.790 tonnes
108-88-3	Toluene	8.982 tonnes
1330-20-7	Xylene (all isomers)	2.895 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
111-76-2	2-Butoxyethanol	25	25	25	25
67-56-1	Methanol	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 Disposed from Previous Year	Comments (Disposals)
108-88-3	Toluene	Changes in production levels	
111-76-2	2-Butoxyethanol	Other (specify in On-site Releases comment field)	Varying customer orders and material concentrations.
1330-20-7	Xylene (all isomers)	Changes in production levels	
67-56-1	Methanol	Changes in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
111-76-2	2-Butoxyethanol		Other (specify in On-site Releases comment field)	Varying customer orders and material concentrations.
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	

Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
111-76-2	2-Butoxyethanol	Recovery of Solvents	O - Engineering Estimates		0.230 tonnes
67-56-1	Methanol	Recovery of Solvents	O - Engineering Estimates		0.874 tonnes
108-88-3	Toluene	Recovery of Solvents	C - Mass Balance		4.477 tonnes
1330-20-7	Xylene (all isomers)	Recovery of Solvents	O - Engineering Estimates		1.208 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
111-76-2	2-Butoxyethanol	0.230 tonnes

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
67-56-1	Methanol	0.874 tonnes
108-88-3	Toluene	4.477 tonnes
1330-20-7	Xylene (all isomers)	1.208 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	4.477 tonnes
108-88-3	Toluene	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	
111-76-2	2-Butoxyethanol	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.230 tonnes
1330-20-7	Xylene (all isomers)	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	1.208 tonnes
67-56-1	Methanol	Recovery of Solvents	Aimco Solrec	4215 Morobel Dr., Milton, ON, Canada	0.874 tonnes

Recycling - Off-site Transfers for Recycling - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity
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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	
111-76-2	2-Butoxyethanol	Production Residues	Other (specify in recycling comments field)	Varying customer orders and material concentrations.
1330-20-7	Xylene (all isomers)	Production Residues	Changes in production levels	
67-56-1	Methanol	Unusable parts or discards	Changes in production levels	

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
67-64-1	Acetone	No	Enters the facility (Use)	4.609 tonnes	4.817 tonnes	2013	-0.208	-4.32
67-64-1	Acetone	No	Creation	0 tonnes	0 tonnes	2013	0	
141-78-6	Ethyl acetate	Yes	Enters the facility (Use)	3.436 tonnes	5.072 tonnes	2013	-1.636	-32.26
64-17-5	Ethyl Alcohol	Yes	Enters the facility (Use)	10.520 tonnes	13.375 tonnes	2013	-2.855	-21.35
67-63-0	Isopropyl alcohol	Yes	Enters the facility (Use)	2.126 tonnes	1.988 tonnes	2013	0.138	6.94
64742-95-6	Light aromatic solvent naphtha	Yes	Enters the facility (Use)	1.685 tonnes	2.437 tonnes	2013	-0.752	-30.86
67-56-1	Methanol	No	Enters the facility (Use)	2.664 tonnes	3.835 tonnes	2013	-1.171	-30.53
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	No	Contained	0 tonnes	0 tonnes	2013	0	
67-56-1	Methanol	Yes	Enters the facility (Use)	2.664 tonnes	3.835 tonnes	2013	-1.171	-30.53
78-93-3	Methyl ethyl ketone	Yes	Enters the facility (Use)	7.592 tonnes	6.9 tonnes	2013	0.692	10.03
123-86-4	n-Butyl acetate	Yes	Enters the facility (Use)	4.616 tonnes	6.109 tonnes	2013	-1.493	-24.44
64742-89-8	Solvent naphtha light aliphatic	Yes	Enters the facility (Use)	1.879 tonnes	2.199 tonnes	2013	-0.320	-14.55
108-88-3	Toluene	No	Enters the facility (Use)	13.459 tonnes	15.066 tonnes	2013	-1.607	-10.67
108-88-3	Toluene	No	Creation	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	No	Contained	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	Yes	Enters the facility (Use)	13.459 tonnes	15.066 tonnes	2013	-1.607	-10.67
108-88-3	Toluene	Yes	Creation	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	4.103 tonnes	7.290 tonnes	2013	-3.187	-43.72
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Contained	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	4.103 tonnes	7.290 tonnes	2013	-3.187	-43.72

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-64-1	Acetone	Decrease in production levels	
67-56-1	Methanol	Decrease in production levels Other	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
108-88-3	Toluene	Decrease in production levels	
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 Other	products contain various substances and their use depends on customer orders

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-64-1	Acetone	No	Total Releases to Air	3,218 tonnes	3,612 tonnes	2013	-0.394	-10.91
67-64-1	Acetone	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
67-64-1	Acetone	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
67-64-1	Acetone	No	Total Releases to All Media	0 tonnes				
141-78-6	Ethyl acetate	Yes	Total Releases to Air	2,290 tonnes	3,712 tonnes	2013	-1.422	-38.31
64-17-5	Ethyl Alcohol	Yes	Total Releases to Air	7,540 tonnes	10,550 tonnes	2013	-3.010	-28.53
67-63-0	Isopropyl alcohol	Yes	Total Releases to Air	1,416 tonnes	1,316 tonnes	2013	0.100	7.60
64742-95-6	Light aromatic solvent naphtha	Yes	Total Releases to Air	1,136 tonnes	1,679 tonnes	2013	-0.543	-32.34
67-56-1	Methanol	No	Total Releases to Air	1,790 tonnes	2,812 tonnes	2013	-1.022	-36.34
67-56-1	Methanol	No	Total Releases to Water	0 tonnes	0 tonnes	2012	0	
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2012	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes				
67-56-1	Methanol	Yes	Total Releases to Air	1,790 tonnes	2,812 tonnes	2013	-1.022	-36.34
78-93-3	Methyl ethyl ketone	Yes	Total Releases to Air	4,355 tonnes	3,810 tonnes	2013	0.545	14.30
123-86-4	n-Butyl acetate	Yes	Total Releases to Air	3,274 tonnes	4,560 tonnes	2013	-1.286	-28.20
64742-89-8	Solvent naphtha light aliphatic	Yes	Total Releases to Air	1,365 tonnes	1,784 tonnes	2013	-0.419	-23.49
108-88-3	Toluene	No	Total Releases to Air	8,982 tonnes	11,426 tonnes	2013	-2.444	-21.39
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0 tonnes	2013	0	
108-88-3	Toluene	No	Total Releases to All Media	0 tonnes				
108-88-3	Toluene	Yes	Total Releases to Air	8,982 tonnes	11,426 tonnes	2013	-2.444	-21.39
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	2,895 tonnes	5,516 tonnes	2013	-2.621	-47.52
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2013	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2013	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	2,895 tonnes	5,516 tonnes	2013	-2.621	-47.52

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-64-1	Acetone	Decrease in production levels	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-56-1	Methanol	Decrease in production levels Other	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
108-88-3	Toluene	Decrease in production levels	
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 Other	Varying materials used as based on consumer orders

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
67-56-1	Methanol	No	Total off-site Transfers for Recycling	0.874 tonnes	1.022 tonnes	2013	-0.148	-14.48
108-88-3	Toluene	No	Total off-site Transfers for Recycling	4.477 tonnes	3.640 tonnes	2013	0.837	22.99
1330-20-7	Xylene (all isomers)	No	Total off-site Transfers for Recycling	1.208 tonnes	1.774 tonnes	2013	-0.566	-31.91

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-56-1	Methanol	Decrease in production levels Other	Material usage varies based on customer orders, and materials have varying concentrations of toxic substances.
108-88-3	Toluene	Other	Increase in concentration of waste solvent.
1330-20-7	Xylene (all isomers)	Decrease in production levels Other	Various materials contain different substances and their use depends on consumer orders

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
67-64-1	Acetone	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
64-17-5	Ethanol	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
141-78-6	Ethyl acetate	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
67-63-0	Isopropyl alcohol	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
64742-95-6	Light aromatic solvent naphtha	None as this substance was not released to air in a quantity over the threshold.
67-56-1	Methanol	The objective is to reduce the use of methanol through technological and procedural means.
78-93-3	Methyl ethyl ketone	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
123-86-4	n-Butyl acetate	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
64742-89-8	Solvent naphtha light aliphatic	The objective is to reduce the use of this substance through equipment modification and improved inventory management or purchasing techniques.
108-88-3	Toluene	The objective is to reduce the 2011 quantity used through technological and procedural means.
1330-20-7	Xylene (all isomers)	The objective is to reduce the use of xylene through technological and procedural means.

Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
67-64-1	Acetone	No quantity target	No timeline target	
64-17-5	Ethanol	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	

CAS RN	Substance Name	Quantity	Years	Description of Target
67-63-0	Isopropyl alcohol	No quantity target	No timeline target	
64742-95-6	Light aromatic solvent naphtha	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	2	Install solvent saver line and gun cleaner, mix only the quantity of catalyzed materials needed.
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
123-86-4	n-Butyl acetate	No quantity target	No timeline target	
64742-89-8	Solvent naphtha light aliphatic	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	2	Install solvent-saver line & gun cleaner device (261 kg), ensure recycled solvent is used for cleaning rather than virgin thinner (373 kg), and mix only the quantity of catalyzed materials needed (57 kg).
1330-20-7	Xylene (all isomers)	No quantity target	2	Install solvent-saver line & gun cleaner, mix only the quantity of catalyzed materials needed.

Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
67-64-1	Acetone	No quantity target	No timeline target	
64-17-5	Ethanol	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
67-63-0	Isopropyl alcohol	No quantity target	No timeline target	
64742-95-6	Light aromatic solvent naphtha	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	
64742-89-8	Solvent naphtha light aliphatic	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
67-64-1	Acetone	Other	No steps were taken in the reporting period due to logistical issues.	No steps were taken in the reporting period due to logistical issues.	The steps taken are the same as those described in the plan.	No steps were taken in the reporting period due to logistical issues.
67-64-1	Acetone	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 in the reporting period due to logistical issues.	No steps were taken in the reporting period due to logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period due to logistical issues.
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 pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	Implementation and training was planned to take place in 2014 but since the pilot test in 2013 was unsuccessful, no steps were taken in 2014.	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.
141-78-6	Ethyl acetate	Other	No steps were taken in the reporting period due to logistical issues.	No steps were taken in the reporting period due to logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period due to logistical issues.
141-78-6	Ethyl 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
141-78-6	Ethyl acetate	Other	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	Implementation and training was planned to take place in 2014 but since the pilot test in 2013 was unsuccessful, no steps were taken in 2014.	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.
67-63-0	Isopropyl alcohol	Other	No steps were taken in the reporting period due to logistical issues.	No steps were taken in the reporting period due to logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period due to logistical issues.

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
67-56-1	Methanol	Modified stripping / cleaning devices	No steps were taken in the reporting period as there were unresolved logistical issues.	No steps were taken in the reporting period as there were unresolved logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period as there were unresolved logistical issues.
67-56-1	Methanol	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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
78-93-3	Methyl ethyl ketone	Other	No steps were taken in the reporting period due to logistical issues.	No steps were taken in the reporting period due to logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period due to logistical issues.
123-86-4	n-Butyl acetate	Other	No steps were taken in the reporting period as there were unresolved logistical issues.	No steps were taken in the reporting period as there were unresolved logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period as there were unresolved logistical issues.
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 pilot test performed in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	No steps were taken as the pilot test performed in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	In 2014 implementation and training was planned. Due to the failure of the pilot test in 2013, no steps were taken in 2014.	No steps were taken as the pilot test performed in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.
64742-89-8	Solvent naphtha light aliphatic	Other	No steps were taken in the reporting period due to logistical issues.	No steps were taken in the reporting period due to logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period due to logistical issues.
64742-89-8	Solvent naphtha light aliphatic	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
64742-89-8	Solvent naphtha light aliphatic	Other	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.	Implementation and training was planned to take place in 2014 but since the pilot test in 2013 was unsuccessful, no steps were taken in 2014.	No steps were taken as the pilot test in 2013 was unsuccessful. The pre-catalyzed materials negatively affected product quality.
108-88-3	Toluene	Modified stripping / cleaning devices	No steps were taken in the reporting period as there were unresolved logistical issues.	No steps were taken in the reporting period as there were unresolved logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period as there were unresolved logistical issues.
108-88-3	Toluene	Other	Operators were trained to use recycled solvent for cleaning rather than virgin thinner.	Operators were trained to use recycled solvent for cleaning rather than virgin thinner.	The steps taken are the same as those described in the plan.	Operators were trained to use recycled solvent for cleaning rather than virgin thinner.
108-88-3	Toluene	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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)	Modified stripping / cleaning devices	No steps were taken in the reporting period as there were unresolved logistical issues.	No steps were taken in the reporting period as there were unresolved logistical issues.	The steps in the plan included ordering a solvent saver and performing a trial in the second half of 2013. No steps were taken in 2013 or 2014 due to unresolved logistics.	No steps were taken in the reporting period as there were unresolved logistical issues.
1330-20-7	Xylene (all isomers)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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
67-64-1	Acetone	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

Technique CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
1330-20-7	Xylene (all isomers)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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:	0.293 tonnes
1330-20-7	Xylene (all isomers)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	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)	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	0.134 tonnes

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
67-64-1	Acetone	No		
64-17-5	Ethanol	No		
141-78-6	Ethyl acetate	No		
67-63-0	Isopropyl alcohol	No		
64742-95-6	Light aromatic solvent naphtha	No		
67-56-1	Methanol	No		
78-93-3	Methyl ethyl ketone	No		
123-86-4	n-Butyl acetate	No		
64742-89-8	Solvent naphtha light aliphatic	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
67-64-1	Acetone	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
67-64-1	Acetone	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.	
67-64-1	Acetone	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.	
67-64-1	Acetone	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
67-64-1	Acetone	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.	
67-64-1	Acetone	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.	
67-64-1	Acetone	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
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.	
64-17-5	Ethanol	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
64-17-5	Ethanol	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
64-17-5	Ethanol	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.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
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 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
67-64-1	Acetone	No		
64-17-5	Ethanol	No		
141-78-6	Ethyl acetate	No		
67-63-0	Isopropyl alcohol	No		
64742-95-6	Light aromatic solvent naphtha	No		
67-56-1	Methanol	No		
78-93-3	Methyl ethyl ketone	No		
123-86-4	n-Butyl acetate	No		
64742-89-8	Solvent naphtha light aliphatic	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 15/05/2017, 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
67-64-1	Acetone
64-17-5	Ethanol
141-78-6	Ethyl acetate
67-63-0	Isopropyl alcohol
64742-95-6	Light aromatic solvent naphtha
67-56-1	Methanol
78-93-3	Methyl ethyl ketone
123-86-4	n-Butyl acetate
64742-89-8	Solvent naphtha light aliphatic
108-88-3	Toluene
1330-20-7	Xylene (all isomers)

Exit Record Certification Statement

As of 15/05/2017, 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 MANITOU CASEGOODS and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
111-76-2	2-Butoxyethanol

Company Name

Krug Furniture Inc.

Highest Ranking Employee

Rob Hawes

Report Submitted by

Rob Hawes

Website address

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
2014	15/05/2017	MANITOU CASEGOODS	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 contacting the National Pollutant Release Inventory directly.

Version: 3.11.3



