



Hiram Walker & Sons Limited
Pernod Ricard

Public Reporting Under O. Reg. 455/09
Public Plan Summary

Hiram Walker & Sons Limited

December 16, 2013



BASIC FACILITY INFORMATION

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Substances Included in the Plan		
<ul style="list-style-type: none"> ▪ Ammonia (CAS No. NA – 16) ▪ Carbon Monoxide (CAS No. 630-08-0) ▪ Ethyl Alcohol (CAS No. 64-17-5) 	<ul style="list-style-type: none"> ▪ Nitrogen Oxides (CAS No. 11104-93-1) ▪ Particulate Matter PM₁₀ (CAS No. NA-M09) ▪ Particulate Matter PM_{2.5} (CAS No. NA-M10) 	
Facility Identification and Site Address		
Company Name	Hiram Walker & Sons Limited	
Facility Name	Hiram Walker & Sons Limited - Walkerville	
Facility Address	Physical Address:	Mailing Address:
	2072 Riverside Drive Windsor, ON N8Y 4S5	2072 Riverside Drive Windsor, ON N8Y 4S5
Spatial Coordinates of Facility	Easting: 334177 m, Northing: 4687934 m (Zone 17, NAD 83 Datum)	
Number of Employees	200	
NPRI ID	7353	
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS Code	31 – Manufacturing	
4 Digit NAICS Code	3121 – Beverage Manufacturing	
6 Digit NAICS Code	312140 – Distilleries	
Facility and Planner Contact Information		
Facility Public Contact & Facility TSRP Coordinator Contact	Jim Stanski, VP Operations	Hiram Walker & Sons Ltd. 2072 Riverside Drive Windsor, ON N8Y 4S5
	Email: jim.stanski@pernod-ricard.com	
	Phone: (519) 561-5380	

PLAN SUMMARY FOR EACH SUBSTANCE

AMMONIA (CAS NO. NA - 16)	
Statement of Intent	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention through ISO 14001 certified Environmental Management Systems and Corporate Policies, Hiram Walker intends to reduce the use or minimize the creation of the TRA listed substances wherever possible.	
Objectives	
Hiram Walker does not intend to implement a reduction option for Ammonia. Hiram Walker will continue to investigate process efficiencies and continuous improvement efforts through ISO 14001 EMS objectives, business initiatives and product requirements in an effort to reduce the use of ammonia in the future.	
Description of Use of Substance	
Ammonia can be added to the Malting & Cooking Process when the solution in the system becomes overly acidic and the pH needs to be raised. Ammonia reacts with the mixture in the slurry tank, increasing the pH and breaking down to non-toxic by-products of the chemical reaction, otherwise ammonia is added in the Fermentation Process in order to start the fermentation and generate the desired ethyl alcohol.	
Rationale for No Option(s) to be Implemented	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Hiram Walker & Sons Limited Walkerville facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The Hiram Walker facility will continue to investigate process efficiencies and continuous improvement efforts in an effort to reduce the use of ammonia in the future.	

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Hiram Walker & Sons Limited facility for Ammonia, dated December 16, 2013.

ETHYL ALCOHOL (CAS NO. 64-17-5)	
Statement of Intent	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention through ISO 14001 certified Environmental Management Systems and Corporate Policies, Hiram Walker intends to reduce the use or minimize the creation of the TRA listed substances wherever possible.	
Objectives	
Hiram Walker does not intend to implement a reduction option for Ethyl Alcohol. Ethyl Alcohol is created as it is the product manufactured at Hiram Walker. The facility will continue to investigate process efficiencies and continuous improvement efforts through ISO 14001 EMS objectives, business initiatives and product requirements in an effort to continue minimizing the potential loss of any product.	
Description of Creation of Substance	
The Ethyl Alcohol created is derived from grain that is received at the facility and then milled into a coarse powder. The grain powder is then mixed with water and other process agents, heated and stirred into a slurry. The slurry is pumped into a fermentation tank, where ethanol is generated by yeast.	
Rationale for No Option(s) to be Implemented	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Hiram Walker & Sons Limited Walkerville facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The Hiram Walker facility will continue to investigate process efficiencies and continuous improvement efforts in an effort to continue minimizing the potential loss of any product where feasible.	

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Hiram Walker & Sons Limited facility for Ethyl Alcohol, dated December 16, 2013.

NITROGEN OXIDES (CAS NO. 11104-93-1)	
Statement of Intent	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention through ISO 14001 certified Environmental Management Systems and Corporate Policies, Hiram Walker intends to reduce the use or minimize the creation of the TRA listed substances wherever possible.	
Objectives	
Hiram Walker does not intend to implement a reduction option for Nitrogen Oxides. The facility will continue to investigate process efficiencies and continuous improvement efforts through ISO 14001 EMS objectives, business initiatives and product requirements in an effort to continue minimizing the creation of Nitrogen Oxides.	
Description of Creation of Substance	
Nitrogen Oxides are generated through the combustion natural gas.	
Rationale for No Option(s) to be Implemented	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Hiram Walker & Sons Limited Walkerville facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The Hiram Walker facility will continue to investigate process efficiencies and continuous improvement efforts in an effort to continue minimizing the creation of Nitrogen Oxides in the future.	

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Hiram Walker & Sons Limited facility for Nitrogen Oxides, dated December 16, 2013.

CARBON MONOXIDE (CAS NO. 630-08-0)
Statement of Intent
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention through ISO 14001 certified Environmental Management Systems and Corporate Policies, Hiram Walker intends to reduce the use or minimize the creation of the TRA listed substances wherever possible.
Objectives
Hiram Walker does not intend to implement a reduction option for Carbon Monoxide. The facility will continue to investigate process efficiencies and continuous improvement efforts through ISO 14001 EMS objectives, business initiatives and product requirements in an effort to continue minimizing the creation of Carbon Monoxide.
Description of Creation of Substance
Carbon Monoxide is generated through the combustion natural gas.
Rationale for No Option(s) to be Implemented
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Hiram Walker & Sons Limited Walkerville facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The Hiram Walker facility will continue to investigate process efficiencies and continuous improvement efforts in an effort to continue minimizing the creation of Carbon Monoxide in the future.

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Hiram Walker & Sons Limited facility for Carbon Monoxide, dated December 16, 2013.

PM₁₀ (CAS NO. NA – M09)
Statement of Intent
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention through ISO 14001 certified Environmental Management Systems and Corporate Policies, Hiram Walker intends to reduce the use or minimize the creation of the TRA listed substances wherever possible.
Objectives
Hiram Walker does not intend to implement a reduction option for PM ₁₀ . The facility will continue to investigate process efficiencies and continuous improvement efforts through ISO 14001 EMS objectives, business initiatives and product requirements in an effort to continue minimizing the creation of PM ₁₀ .
Description of Creation of Substance
The majority of PM ₁₀ is created through the combustion of natural gas. A small portion of PM ₁₀ is generated through the handling of grain, necessary for making the alcohol produced at the facility.
Rationale for No Option(s) to be Implemented
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Hiram Walker & Sons Limited Walkerville facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The Hiram Walker facility will continue to investigate process efficiencies and continuous improvement efforts in an effort to continue minimizing the creation of PM ₁₀ in the future.

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Hiram Walker & Sons Limited facility for PM₁₀, dated December 16, 2013.

PM_{2.5} (CAS NO. NA-M10)
Statement of Intent
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to pollution prevention through ISO 14001 certified Environmental Management Systems and Corporate Policies, Hiram Walker intends to reduce the use or minimize the creation of the TRA listed substances wherever possible.
Objectives
Hiram Walker does not intend to implement a reduction option for PM _{2.5} . The facility will continue to investigate process efficiencies and continuous improvement efforts through ISO 14001 EMS objectives, business initiatives and product requirements in an effort to continue minimizing the creation of PM _{2.5} .
Description of Creation of Substance
The majority of PM _{2.5} is created through the combustion of natural gas. A small portion of PM _{2.5} is generated through the handling of grain, necessary for making the alcohol produced at the facility.
Description Option(s) to be Implemented
In accordance with s. 4(1)6 of the Toxic Reduction Act, the Hiram Walker & Sons Limited Walkerville facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options. The Hiram Walker facility will continue to investigate process efficiencies and continuous improvement efforts in an effort to continue minimizing the creation of PM _{2.5} in the future.

This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and Hiram Walker & Sons Limited facility for PM_{2.5}, dated December 16, 2013.



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Pernod Ricard

Certification by Highest Ranking Employee

As of December 16, 2013, I, Jim Stanski, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
▪ Ammonia (CAS No. NA-16).....	December 16, 2013
▪ Carbon Dioxide (CAS No. 630-08-0).....	December 16, 2013
▪ Ethyl Alcohol (CAS No. 64-17-5).....	December 16, 2013
▪ Nitrogen Oxides (CAS No. 11104-93-1).....	December 16, 2013
▪ Particulate Matter PM ₁₀ (CAS No. NA-M09).....	December 16, 2013
▪ Particulate Matter PM _{2.5} (CAS No. NA-M10).....	December 16, 2013

Jim Stanski
VP - Operations
Hiram Walker & Sons Limited



Hiram Walker & Sons Limited
Pernod Ricard

Certification by Licensed Planner

As of December 16, 2013, I, Brad Bergeron, certify that I am familiar with the processes at Hiram Walker & Sons Limited that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the *Toxics Reduction Act, 2009* that are set out in the toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
▪ Ammonia (CAS No. NA-16).....	December 16, 2013
▪ Carbon Dioxide (CAS No. 630-08-0).....	December 16, 2013
▪ Ethyl Alcohol (CAS No. 64-17-5).....	December 16, 2013
▪ Nitrogen Oxides (CAS No. 11104-93-1).....	December 16, 2013
▪ Particulate Matter PM ₁₀ (CAS No. NA-M09).....	December 16, 2013
▪ Particulate Matter PM _{2.5} (CAS No. NA-M10).....	December 16, 2013

Brad Bergeron, Planner License #0242
Senior Project Manager / Toxic Substance Reduction Planner
RWDI AIR Inc.