

Plan Summary Preview

Company Details

Company Legal Name:

Air Products Canada Ltd.

Company Address:

989 Derry Road, Mississauga (Ontario)

Report Details

Facility:

Nanticoke

Facility Address:

1020 Regional #3 Road, Nanticoke (Ontario)

Update Comments:

Activities

Facility Contacts

Facility Contacts

Public Contact:*

Keith Vanderwoude

Highest Ranking Employee:

Keith Vanderwoude

Person responsible for preparing the toxic substance reduction plan:

Wasef Jamil

Organization Validation

Company and Parent Company Information

Company Details

Company Legal Name:*

Air Products Canada Ltd.

Company Trade Name:*

Air Products Canada Ltd

Business Number:*

877788000

Mailing Address

Delivery Mode:

General Delivery

PO Box

Rural Route Number

Address Line 1

102 - 989 Derry Road East

City*

Mississauga

Province/Territory**

Ontario

Postal Code:**

L5T2J8

Physical Address

Address Line 1

102 - 989 Derry Road

City

Mississauga

Province/Territory

Ontario

Postal Code

L5T2J8

Additional Information

Land Survey Description

National Topographical Description

Parent Companies

Air Products Canada Ltd

Company Legal Name:*

Air Products Canada Ltd

Percentage owned:*

100.00

Business Number:*

877788000

Mailing Address

Delivery Mode:

PO Box

Rural Route Number

Address Line 1

City*

Province/Territory**

Postal Code:**

Physical Address

Address Line 1

City

Province/Territory

Postal Code

Additional Information

Land Survey Description

National Topographical Description

Air Products and Chemicals, Inc.

Company Legal Name:*

Percentage owned:*

Business Number:*

Mailing Address

Delivery Mode:

PO Box

Rural Route Number

Address Line 1

City* Allentown
Province/Territory** Pennsylvania
Postal Code:** 18195

Physical Address

Address Line 1 7201 Hamilton Boulevard
City Allentown
Province/Territory Pennsylvania
Postal Code 18195
Additional Information
Land Survey Description
National Topographical Description

AIR PRODUCTS CANADA

Company Legal Name:* AIR PRODUCTS CANADA
Percentage owned:* 50.00
Business Number:* 877788000

Mailing Address

Delivery Mode:
PO Box
Rural Route Number
Address Line 1 7201 Hamilton Boulevard
City* Allentown
Province/Territory** Pennsylvania
Postal Code:** 18195

Physical Address

Address Line 1	<input type="text" value="7201 Hamilton"/>
City	<input type="text" value="Allentown"/>
Province/Territory	<input type="text" value="Pennsylvania"/>
Postal Code	<input type="text" value="18195-1501"/>
Additional Information	<input type="text"/>
Land Survey Description	<input type="text"/>
National Topographical Description	<input type="text"/>

Facility Validation

Facility Information

Facility:*	<input type="text" value="Nanticoke"/>
NAICS Id:*	<input type="text" value="325120"/>
NPRI Id:*	<input type="text" value="0000003391"/>
ON Reg 127/01 Id:	<input type="text"/>

Mailing Address

Delivery Mode:	<input type="text" value="General Delivery"/>
PO Box	<input type="text"/>
Rural Route Number	<input type="text"/>
Address Line 1	<input type="text" value="1020 Regional #3 Road"/>
City*	<input type="text" value="Nanticoke"/>
Province/Territory**	<input type="text" value="Ontario"/>
Postal Code:**	<input type="text" value="N0A1L0"/>

Physical Address

Address Line 1	<input type="text" value="1018 - 1020 Regional #3 Road"/>
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City	<input type="text" value="Nanticoke"/>
Province/Territory	<input type="text" value="Ontario"/>
Postal Code	<input type="text" value="N0A1L0"/>
Additional Information	<input type="text"/>
Land Survey Description	<input type="text"/>
National Topographical Description	<input type="text"/>

Geographical Address

Latitude	<input type="text" value="42.82770"/>
Longitude	<input type="text" value="-80.10060"/>
UTM Zone**	<input type="text" value="17"/>
UTM Easting**	<input type="text" value="573233"/>
UTM Northing**	<input type="text" value="4738628"/>

Contact Validation

Contacts

Public Contact:

First Name:*	<input type="text" value="Keith"/>
Last Name:*	<input type="text" value="Vanderwoude"/>
Position:*	<input type="text" value="Site Manager"/>
Telephone:*	<input type="text" value="5195872286"/>
Ext:	<input type="text"/>
Fax:	<input type="text" value="5195872963"/>
Email:*	<input type="text" value="vanderkd@airproducts.com"/>

Mailing Address

Delivery Mode:	<input type="text" value="Post Office Box"/>
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PO Box	<input type="text" value="300"/>
Rural Route Number	<input type="text"/>
Address Line 1	<input type="text"/>
City*	<input type="text" value="Nanticoke"/>
Province/Territory**	<input type="text" value="Ontario"/>
Postal Code:**	<input type="text" value="N0A1L0"/>

Highest Ranking Employee:

First Name:*	<input type="text" value="Keith"/>
Last Name:*	<input type="text" value="Vanderwoude"/>
Position:*	<input type="text" value="Site Manager"/>
Telephone:*	<input type="text" value="5195872286"/>
Ext:	<input type="text"/>
Fax:	<input type="text" value="5195872963"/>
Email:*	<input type="text" value="vanderkd@airproducts.com"/>

Mailing Address

Delivery Mode:	<input type="text" value="Post Office Box"/>
PO Box	<input type="text" value="300"/>
Rural Route Number	<input type="text"/>
Address Line 1	<input type="text"/>
City*	<input type="text" value="Nanticoke"/>
Province/Territory**	<input type="text" value="Ontario"/>
Postal Code:**	<input type="text" value="N0A1L0"/>

Person responsible for the Toxic Substance Reduction Plan preparation:

First Name:*	Wasef
Last Name:*	Jamil
Position:*	Environmental Engineer/Project Manager
Telephone:*	9058824401
Ext:	1876
Fax:	9058824399
Email:*	wasef.jamil@urs.com

Mailing Address

Delivery Mode:	
PO Box	
Rural Route Number	
Address Line 1	30 Leek Crescent
City*	Richmond Hill
Province/Territory**	Ontario
Postal Code:**	L4B4N4

Employees

Employees

Number of Full-time Employees:*
47

Substances

107-21-1, Ethylene glycol

107-21-1, Ethylene glycol

Substances Section Data

Statement of Intent

Use

Does the plan include a statement that stipulates the owner or operator's intent to use less of this toxic substance at their facility?*

Yes

If 'yes', provide the exact statement of intent:**

APC is committed to playing a leadership role in environmental sustainability and its stewardship by responsibly managing their environmental footprint, drive improvements and achieve environmental reduction goals for energy, greenhouse gases, waste and emissions, and water. Whenever feasible, APC will eliminate, or reduce the use of ethylene glycol in full compliance with all Federal and Provincial Regulations

If 'no', what rationale is specified in the plan for not using less of this substance?***

Creation

Does the plan include a statement that stipulates the owner or operator's intent to create less of this toxic substance at their facility?*

No

If 'yes', provide the exact statement of intent:**

If 'no', what rationale is specified in the plan for not creating less of this substance?***

APC does not create ethylene glycol at the Facility

Objectives, Targets and Description

Plan Objectives

Objectives in plan:*

APC intends to monitor new methods and investigate ways to reduce or eliminate the use of ethylene glycol. At this time, a reduction target is not set but APC will monitor and implement, whenever feasible

Toxic Substance Use Targets

Reduction target:*

	Quantity	Unit
<input checked="" type="checkbox"/> No target	or	

Timeframe target:*

No target or years

Description of use targets:

Toxic Substance Creation Targets

Reduction target:*

	Quantity	Unit
<input checked="" type="checkbox"/> No target	or <input type="text"/>	<input type="text"/>

Timeframe target:*

No target or years

Description of creation targets:

Reasons for Using this Toxic Substance

This substance is used at the facility:*

Summarize why this substance is used at the facility:**

Ethylene glycol is used as a heat transfer fluid in a non-evaporative closed loop cooling media, which has a system volume of 24,000 kg. Based on a review of the purchase records from 2012, there were no purchases of ethylene glycol; however, the Site personnel estimated 24,000 kg of 50/50 ethylene glycol-water mixture was circulated within the media system, equaling the closed loop system. Therefore, approximately 12,000 kg of ethylene glycol was recirculated in the system. Material Safety Data Sheet (MSDS) for Dowtherm SR-1, which is the trade name of the facility's ethylene glycol, was provided to APC by Univar Canada Ltd. A review of the MSDS indicated that the ethylene glycol solution has a concentration of 30-60%. However, the Site personnel indicated that the solution has been adjusted to have a 50/50 glycol-water mixture.

Reasons for Creating this Toxic Substance

This substance is created at the facility:*

Summarize why this substance is created at the facility:**

Toxic Reduction Options for Implementation

Toxic substance reduction option(s) to be implemented:

Does the plan specify that no toxic reduction option will be implemented?*

If 'No', record the option(s) under the appropriate categories below (e.g., Materials or feedstock substitution; Product design or reformulation). If 'Yes', explain why no option will be implemented:**

At the time of preparing the TSRP, 'material substitution' was found as a reduction option. For the operations at the Facility, a potential material substitution is propylene glycol. A detailed technical feasibility was taken into consideration and the potential material substitution was deemed reasonable and technically feasible. However, at the time of preparing this TSRP, the operating cost of ethylene glycol was not readily available and an economic feasibility for the option of using propylene glycol was undertaken. The analyses can be further taken into consideration by APC's process engineers, the Facility manager and the chemical suppliers to evaluate the option closely for implementing at the Facility.

Materials or feedstock substitution

Product design or reformulation

Equipment or process modifications

Spill or leak prevention

On-site reuse, recycling or recovery

Improved inventory management or purchasing techniques

Good operator practice or training

Rationale for choosing these options for implementation:

Summary of actions undertaken outside of the plan to reduce the use and creation of this toxic substance at the facility:

License number of the toxic substance reduction planner who made the recommendations for this substance (format TSRPXXXX):*

License number of the toxic substance reduction planner who certified the plan for this substance (format TSRPXXXX):*

Which version of the plan is reflected in this summary?*

New Plan