

2016 TOXIC REDUCTION PLAN SUMMARY
for
COBALT

BASIC FACILITY INFORMATION

| Facility Identification | |
|--|---|
| Facility Name | Niagara Investment Castings (division of Asahi Refining Canada) |
| NPRI ID | 5761 |
| Ontario MOE ID Number | n/a |
| Number of Full-time Employees | 53 |
| 2 Digit NAICS | 33 |
| 4 Digit NAICS | 3315 |
| 6 Digit NAICS | 331514 |
| UTM Spatial Coordinates (NAD83) | Latitude: 43.16640 Longitude: -79.21640 UTM Zone: 17 UTM Easting: 644977 UTM Northing: 4780885 |
| Facility Address | 16 Smith Street, St. Catharines Ontario L2P 3J1 |

| Technical Contact, Certifying Official, Highest Ranking Employee | |
|---|--|
| Name | John Pagnotta |
| Position | Business Manager |
| Address | 16 Smith Street, St. Catharines Ontario L2P 3J1 |
| Phone Number | 905-682-9258 |
| Fax Number | 905-682-8222 |
| Email address | john.pagnotta@asahirefining.com |

| Public Contact | |
|-----------------------|--|
| Name | Nancy Cardwell |
| Position | EHS Coordinator |
| Address | 16 Smith Street, St. Catharines Ontario L2P 3J1 |
| Phone Number | 905-682-9258 |
| Fax Number | 905-682-8222 |
| Email address | nancy.cardwell@asahirefining.com |

| Parent Company Information | |
|--|--|
| Legal Name of Parent Company | ASAHI Refining Canada Ltd. |
| Address | 130 Glidden Road, Brampton Ontario L6W 3M8 |
| Business Number | 250231040 |
| Percentage of Facility Owned by Company | 100% |

| Toxic Substances for Which Facility Must Prepare Plan | |
|--|---|
| Substance Name | Chemical Abstracts Service (CAS) Registry Number |
| Cobalt (and its compounds) | NA - 05 |

| Plan Contact Information | |
|--|--|
| <i>Person Coordinating the Preparation of the Plan</i> | |
| Name | Mihaela Draghici |
| Position | Environmental Consultant |
| Address | 7-150 Jardin Drive, Concord, ON L4K 3P9 |
| Phone Number | (905) 761-1786 |
| Fax Number | (905) 761-6524 |
| Email address | mdraghici@envirovision-inc.com |
| <i>Person Who Prepare the Plan</i> | |
| Name | Mihaela Draghici |
| Position | Environmental Consultant |
| Address | 7-150 Jardin Drive, Concord, ON L4K 3P9 |
| Phone Number | (905) 761-1786 |
| Fax Number | (905) 761-6524 |
| Email address | mdraghici@envirovision-inc.com |
| <i>Planner Responsible for Making Recommendations</i> | |
| Name | Mihaela Draghici |
| Position | Environmental Consultant |
| Address | 7-150 Jardin Drive, Concord, ON L4K 3P9 |
| Phone Number | (905) 761-1786 |
| Fax Number | (905) 761-6524 |
| Email address | mdraghici@envirovision-inc.com |
| Planner License Number: | TSRP0131 |
| <i>Planner Responsible for Certification</i> | |
| Name | Mihaela Draghici |
| Position | Environmental Consultant |
| Address | 7-150 Jardin Drive, Concord, ON L4K 3P9 |
| Phone Number | (905) 761-1786 |
| Fax Number | (905) 761-6524 |
| Email address | mdraghici@envirovision-inc.com |
| Planner License Number: | TSRP0131 |

STATEMENT OF INTENT - Cobalt

Niagara Investment Castings ('NIC') (division of Asahi Refining Canada) is committed to playing a leadership role in protecting the environment. Whenever feasible, we will continue to look for opportunities to reduce any waste that currently find their way into a stream other than complete recycling. Cobalt is created during combustion activities in negligible amounts.

OBJECTIVES OF THE PLAN AND TARGETS

We will continue to look for opportunities to reduce the use and creation of Cobalt.

FACILITY DESCRIPTION – Description of why Cobalt is used and/or created

Cobalt is used to manufacture metal alloys, including the stainless steels, carbon and alloy steels, heat resistant steels, and nickel, copper, and cobalt based alloys. Cobalt is created during combustion activities in negligible amounts.

OPTION TO BE IMPLEMENTED OR STATEMENT THAT NONE ARE TO BE IMPLEMENTED

There are no toxic reduction options to be implanted at the facility. NIC is committed to ongoing sustainability and cost efficiencies, and this along with acknowledging that all customers provide and specify ASTM alloys to us means at this time there are no additional options for the facility to implement.

STATEMENT THAT THE PLAN SUMMARY REFLECTS THE PLAN

This Plan Summary accurately reflects the Toxic Reduction Plan for the Cobalt (CAS #NA - 05) dated September 18, 2017.

CERTIFICATION BY HIGHEST RANKING EMPLOYEE

As of September 18, 2017, I, John Pagnotta, 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.

[Cobalt]

September 18, 2017



John Pagnotta
Business Manager
Niagara Investment Castings (division of Asahi Refining Canada)
(Highest Ranking Employee)

September 18, 2017
Date

CERTIFICATION BY LICENSED PLANNER

As of September 18, 2017, I, Mihaela Draghici, that I am familiar with the processes at Niagara Investment Castings (division of Asahi Refining Canada) 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 that Act and Ontario Regulation 455/09 (General) made under that Act.

[Cobalt]

September 18, 2017



Mihaela Draghici
Environmental Consultant
Envirovision Inc.
Toxic Substance Reduction Planner, TSRP0131

September 18, 2017
Date