



National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year	2019
Report Type:	NPRI,ON MECP TRA
Report Status:	Submitted
Modified Date/Time:	2020-06-03 5:37 PM

Company and Facility Details

Company Name:	Monarch Fabricating and Die Casters Ltd.
Business Number:	103745428
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 45 Colville Road City: Toronto Province/Territory: Ontario Postal Code: M6M 2Y2 Country: Canada
Facility Name:	MONARCH FABRICATING AND DIE CASTERS LTD.
NAICS Code:	331490
NPRI ID:	4762
Portable:	No
Physical Address:	Address Line 1: 45 Colville Road City: Toronto Province/Territory: Ontario Postal Code: M6M 2Y2 Country: Canada Latitude: 43.7065 Longitude: -79.4739 UTM Zone: 17 UTM Easting: 622933 UTM Northing: 4840448

Contacts Details

Contact Type	Technical Contact, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	RAJ KUNDU
Position:	Manager-Environmental Services
Telephone:	4166798914

Email:	rkundu@tharris.ca
Contact Type	Certifying Official, Highest Ranking Employee
Name:	Farid Dossa
Position:	General Manager
Telephone:	4162498254
Email:	farid@monarchfab.com

General Information

Number of employees:	10
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting of Dioxins, Furans and Hexacholorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Does this facility release less than the reporting threshold for each Part 4 substance AND have one or more light or medium crude oil batteries with a total oil throughput for the battery components of the facility of $\geq 1,900$ m ³ per year?	No
Did the facility operate one or more electricity generation units that had a capacity of 25 MW or more and that distributed or sold to the grid 33% or more of its potential electrical output in the calendar year?	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
Does this facility solely consist of compression equipment in the oil and gas extraction sector?	No
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	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):	08:00

Shutdown Periods:

From 2019-12-23 To 2019-12-31

Will the shutdown period occur at or around the same time in future years?	Yes
Was the shutdown period a partial or complete shutdown?	Partial

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 14	Zinc (and its compounds)	0.020000	N/A	N/A	0.020000	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MECP TRA	First report for this substance to the ON MECP TRA
NA - 14	Zinc (and its compounds)	Yes	No	No

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
NA - 14	Zinc (and its compounds)	Yes	Yes	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
NA - 14	Zinc (and its compounds)	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
NA - 14	Zinc (and its compounds)		As an article component	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 14	Zinc (and its compounds)	Use	183.5 tonnes	Yes
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	Yes
NA - 14	Zinc (and its compounds)	Contained in Product	183.5 tonnes	Yes

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	Reason for the significant process change
NA - 14	Zinc (and its compounds)					No	

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 14	Zinc (and its compounds)	Total Quantity Released	E2 - Published Emission Factors		0.02 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
NA - 14	Zinc (and its compounds)	25	25	25	25

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
NA - 14	Zinc (and its compounds)	Decrease in production levels	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
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NA - 14	Zinc (and its compounds)	Decrease in production levels
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Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		0.02 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 14	Zinc (and its compounds)	0.02 tonnes

Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	Metal Cleaners/Laundry	2300 Weston Road, Toronto, ON, Canada	0.02 tonnes

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 14	Zinc (and its compounds)	Production Residues	Decrease 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
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	183.5 tonnes	226 tonnes	2018	-42.5	-18.81
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0 tonnes	2018	0	
NA - 14	Zinc (and its compounds)	No	Contained in Product	183.5 tonnes	226 tonnes	2018	-42.5	-18.81

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 14	Zinc (and its compounds)	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
NA - 14	Zinc (and its compounds)	No	Total Releases to Air	0 tonnes				
NA - 14	Zinc (and its compounds)	No	Total Releases to Water	0 tonnes				
NA - 14	Zinc (and its compounds)	No	Total Releases to Land	0 tonnes				
NA - 14	Zinc (and its compounds)	No	Total Releases to All Media	0.02 tonnes	0.07 tonnes	2018	-0.05	-71.43

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 14	Zinc (and its compounds)	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
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CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	0.02 tonnes	0.07 tonnes	2018	-0.05	-71.43

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 14	Zinc (and its compounds)	Decrease in production levels	

Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was prepared or implemented on a voluntary basis.

b) Did the facility update their plan in the current reporting year?

No

c) Does the plan address substances, energy conservation, or water conservation?

Substances (provide the name of the primary Substances in the comments field below)
Energy conservation
Water conservation

Please summarize your pollution prevention plan. If you selected "Substances", please specify the substances that were addressed in your plan (this information will be publicly available).

Monarch currently reuses all metal scraps that are generated during the manufacturing process. These materials are re-introduced into the process. Damaged parts or stock that is not used are also re-introduced into the process.

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

Yes

If no, please select all applicable reasons from the list below:

Pollution Prevention Activities

Category	Activity	Name and description of the other activity
Equipment or Process Modification	Other (specify in comments field)	The equipment and process cannot be changed as the final product is dependent on specific process specifications.
Good Operating Practice or Training	Other (specify in comments field)	All new employees are paired with an experienced employee for training. Monarch uses policies and procedures to maximize efficiency during production.
Inventory Management or Purchasing Techniques	Other (specify in comments field)	All zinc received is used over the course of the month. There is no shelf life for zinc, and any inventory unused is re-introduced into the process for new product.
Materials or Feedstock Substitution	Other (specify in comments field)	No suitable alternatives available to achieve current quality needs.
On-site Reuse, Recycling or Recovery	Other (specify in comments field)	The current technological requirements, such as equipment, the creation of VOCs, space, and limited reduction makes this a technically infeasible option at this time. Monarch currently reuses all metal scraps that are generated during the manufacturing process. These materials are re-introduced into the process. Damaged parts or stock that is not used are also re-introduced into the process.
Other Pollution Prevention Activities		
Product Design or Reformulation	Other (specify in comments field)	The product is designed to meet individual client specifications. The amount of zinc used in the product is required for strength and quality requirements and cannot be reformulated.
Spill and Leak Prevention	Other (specify in comments field)	Zinc that is spilled during the process is cleanup up and reintroduced into the process.

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
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CAS RN	Substance Name	Objectives
NA - 14	Zinc (and its compounds)	Monarch will continue to research and monitor advancements to implement options that are both technologically and financially viable to reduce the use of zinc alloy #3

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

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
NA - 14	Zinc (and its compounds)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 14	Zinc (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	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.	
NA - 14	Zinc (and its compounds)	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.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 14	Zinc (and its compounds)	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.	
NA - 14	Zinc (and its compounds)	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.	
NA - 14	Zinc (and its compounds)	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
NA - 14	Zinc (and its compounds)	No		

Feedback

Comments on the Reporting System

Very satisfied. Did not encounter any technical issues, but there is room for improvement.

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

Monarch Fabricating and Die Casters Ltd.

Certifying Official (or authorized delegate)

Farid Dossa

Report Submitted by

Raj Kundu

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 MECP TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 2020-06-03, I, Farid Dossa, 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

NA - 14

Zinc (and its compounds)

Company Name

Monarch Fabricating and Die Casters Ltd.

Highest Ranking Employee

Farid Dossa

Report Submitted by

Raj Kundu

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
2019	2020-06-03	MONARCH FABRICATING AND DIE CASTERS LTD.	Ontario	Toronto	NPRI, ON MECP TRA

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.

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