

TODA ADVANCED MATERIALS INC.
Toxics Reduction Public Summary Report

Facility Information

Company Name	TODA Advanced Materials Inc.		
Facility Name	933 Vidal Street South		
Facility Physical Address	PO Box 938		
Facility Mailing Address	Sarnia, ON, N7T 7K2		
Spatial Coordinates of Facility	384226Easting; 4755698Northing		
Number of Employees	27		
NPRI ID	11731		
2 Digit NAICS Code	31-33		
4 Digit NAICS Code	3251		
6 Digit NAICS Code	325189		

Parent Company Information

Parent Company Name	Toda Kogyo Corp.		
Address	1-4 Maijishainkia, Otake, Hiroshima, Japan, 732-0828		
Percent Ownership (if available)	100%		

Facility Contact

Public Contact	Chad Hyatt		
Position	Plant Manager		
Address	933 Vidal Street South, Sarnia ON N7T 7K2		
email	chad.hyatt@todaca.com		
Phone	(519) 346-4347		
Fax	(519) 346-4310		

Date of Summary

Reporting Year	2017
Summary Date	June 1, 2018

Toxic Substances Reported

Cobalt, Nickel, Manganese and Sulphuric acid

Copy of Certification:

As of June 1, 2018, I certify that I have read the report on the toxic substance reduction plan(s) for the toxics listed above and I am familiar with their contents and to my knowledge the information contained in the report(s) is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

The original version of this report is signed off by:

Highest Ranking Employee: Kazuyoshi Murashige (President)

TODA ADVANCED MATERIALS INC.

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Substance Information and Plan Objective

Substance Name	COBALT (AND ITS COMPOUNDS)
CAS #	7440-48-4
Report Date:	1-Jun-18
Plan Date:	20-Dec-12
Plan Objectives and Targets	Our goal is to reduce the losses of cobalt at our facility.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>100,000 to 1,000,000	>10,000 to 100,000	>-10,000 to -100,000	-47%
C - Created	0	0	0	-
P - In a product that leaves the process	>100,000 to 1,000,000	>10,000 to 100,000	>-10,000 to -100,000	-46%
Summary of reasons for changes between current year and previous year.	Decrease in production levels			
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en				

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Sulphate Recovery Plant was commissioned and is now running. Sodium sulphate is now removed from wastewater. No overall reductions in toxic substances however some toxic substance waste has become part of a product stream.		
Summary of the toxics reductions achieved as a result of the steps taken	Pathways	tonnes	%
	Used	N/A	N/A
	Created	N/A	N/A
	Contained in Product	N/A	N/A
	On-Site Releases to Air	N/A	N/A
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
	Disposal Off-Site	N/A	N/A
	Transfer Off-Site for Recycling	N/A	N/A
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None		
Summary of differences between steps taken and those set out in the plan.	Not Applicable		
Description of amendments to the plan.	Not Applicable		

TODA ADVANCED MATERIALS INC.

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	NICKEL (AND ITS COMPOUNDS EXCEPT NICKEL CARBONYL)
CAS #	7440-02-0
Report Date:	1-Jun-18
Plan Date:	20-Dec-12
Plan Objectives and Targets	Our goal is to reduce the losses of nickel at our facility

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -100 to -1000	-36%
C - Created	0	0	0	-
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -100 to -1000	-48%
Summary of reasons for changes between current year and previous year.	Decrease in production levels			
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en				

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Sulphate Recovery Plant was commissioned and is now running. Sodium sulphate is now removed from wastewater. No overall reductions in toxic substances however some toxic substance waste has become part of a product stream.		
Summary of the toxics reductions achieved as a result of the steps taken	Pathways	tonnes	%
	Used	N/A	N/A
	Created	N/A	N/A
	Contained in Product	N/A	N/A
	On-Site Releases to Air	N/A	N/A
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
	Disposal Off-Site	N/A	N/A
	Transfer Off-Site for Recycling	N/A	N/A
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None		
Summary of differences between steps taken and those set out in the plan.	Not Applicable		
Description of amendments to the plan.	Not Applicable		

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Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	MANGANESE COMPOUNDS(INCLUDING PERMANGANATES)
CAS #	7664-93-9
Report Date:	1-Jun-18
Plan Date:	23-Dec-16
Plan Objectives and Targets	Our goal is to reduce the losses of manganese at our facility

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1 to 10	>1 to 10	>0 to -1	-1%
C - Created	0	0	0	-
P - In a product that leaves the process	>1 to 10	>10 to 100	>1 to 10	23%
Summary of reasons for changes between current year and previous year.	Increased production of a product containing manganese.			
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en				

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Sulphate Recovery Plant was commissioned and is now running. Sodium sulphate is now removed from wastewater. No overall reductions in toxic substances however some toxic substance waste has become part of a product stream.		
Summary of the toxics reductions achieved as a result of the steps taken	Pathways	tonnes	%
	Used	N/A	N/A
	Created	N/A	N/A
	Contained in Product	N/A	N/A
	On-Site Releases to Air	N/A	N/A
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
Disposal Off-Site	N/A	N/A	
Transfer Off-Site for Recycling	N/A	N/A	
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None		
Summary of differences between steps taken and those set out in the plan.	Not Applicable		
Description of amendments to the plan.	Not Applicable		

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Substance Information and Plan Objective

Substance Name	SULPHURIC ACID
CAS #	7664-93-9
Report Date:	1-Jun-18
Plan Date:	20-Dec-12
Plan Objectives and Targets	<p>While TODA Advanced Materials Inc. does not intend to reduce the use of Sulphuric Acid, the plan was developed with the following objectives:</p> <ul style="list-style-type: none"> • we will continue to operate in full compliance with all applicable environmental regulations; and • we will continue to minimize use of Sulphuric Acid through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>10 to 100	> -10 to -100	-36%
C - Created	0	0	0	-
P - In a product that leaves the process	0	0	0	-
Summary of reasons for changes between current year and previous year.	Decrease in production levels			
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en				

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Sulphate Recovery Plant was commissioned and is now running. Sodium sulphate is now removed from wastewater. No overall reductions in toxic substances however some toxic substance waste has become part of a product stream.		
Summary of the toxics reductions achieved as a result of the steps taken	Pathways	tonnes	%
	Used	N/A	N/A
	Created	N/A	N/A
	Contained in Product	N/A	N/A
	On-Site Releases to Air	N/A	N/A
	On-Site Releases to Water	N/A	N/A
	On-Site Releases to Land	N/A	N/A
	Disposal On-Site	N/A	N/A
Disposal Off-Site	N/A	N/A	
Transfer Off-Site for Recycling	N/A	N/A	
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	None		
Summary of differences between steps taken and those set out in the plan.	Not Applicable		
Description of amendments to the plan.	Not Applicable		