

**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	32
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	Taiju Seimei Hiroshima Ekimae Bldg. 9F, 1-23 Kyobashi-cho, Minami-ku, Hiroshima 732-0828, Japan
Percent Ownership (if available)	100%

**Facility Contact**

Public Contact	Chad Hyatt
Position	Plant Manager
Address	933 Vidal Street South, Sarnia ON N7T 7K2
email	<a href="mailto:chad.hyatt@todaca.com">chad.hyatt@todaca.com</a>
Phone	(519) 346-4347
Fax	(519) 346-4344

**Date of Summary**

Reporting Year	2020
Summary Date	September 30, 2021

**Toxic Substances Reported**

Cobalt, Nickel, Manganese and Sulphuric acid

**Copy of Certification:**

As of September 30, 2021, 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: Mitsunori Nagase (President)

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**Toxics Reduction Public Summary Report**

**Substance Information and Plan Objective**

Substance Name	COBALT (AND ITS COMPOUNDS)
CAS #	7440-48-4
Report Date:	30-Sep-21
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	2019	2020	Delta	Delta %
Units reported	kg	kg		
U - Enters the Process (Raw Materials)	>100,000 to 1,000,000	>100,000 to 1,000,000	>10,000 to 100,000	28%
C - Created	0	0	0	-
P - In a product that leaves the process	>100,000 to 1,000,000	>100,000 to 1,000,000	>10,000 to 100,000	29%
Summary of reasons for changes between current year and previous year.	Variation in product demand			
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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				

**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 production hours was decreased, removing sodium sulphate 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	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	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:	30-Sep-21
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	2019	2020	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	>10 to 100	5%
C - Created	0	0	0	-
P - In a product that leaves the process	>1000 to 10,000	>1000 to 10,000	>10 to 100	1%
Summary of reasons for changes between current year and previous year.	Insignificant change			
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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				

**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 production hours was decreased, removing sodium sulphate 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	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	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:	30-Sep-21
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	2019	2020	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>10 to 100	>1 to 10	> -10 to -100	-79%
C - Created	0	0	0	-
P - In a product that leaves the process	>10 to 100	>1 to 10	> -10 to -100	-76%

Summary of reasons for changes between current year and previous year.	Variation in product demand. Manganese (Mn) did not meet the reporting threshold this year due to a decrease in production of the product that uses Mn. However, Toda is voluntarily reporting for Manganese in the 2020 reporting year.
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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 production hours was decreased, removing sodium sulphate 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	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	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:	30-Sep-21
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"> <li>• we will continue to operate in full compliance with all applicable environmental regulations; and</li> <li>• we will continue to minimize use of Sulphuric Acid through current and future pollution prevention and best management practices.</li> </ul>

**Toxics Substance Accounting and Comparison**

Pathways	2019 tonnes	2020 tonnes	Delta	Delta %
Units reported				
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	>0 to 1	0.36%
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.	Insignificant change			
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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				

**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 production hours was decreased, removing sodium sulphate 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	<b>Pathways</b>	<b>tonnes</b>	<b>%</b>
	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		