

# Plan Summary Preview

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## Company Details

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Company Legal Name

EMI RFI Shield Plating Inc

Company Address

123 Manville Road Northeast, Scarborough (Ontario)

## Report Details

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NPRI ID

5964

Facility Name

EMIRFI SHIELD PLATING INC.

Facility Address

123 Manville Road Northeast, (Ontario)

Update Comments

Plan summary was not submitted in 2011. Can not submit 2012

## Activities

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## Contacts

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Select the Facility Contacts

### Facility Contacts

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Please assign the appropriate contact under each category below.

Public Contact: \*

Mark Henry

Highest Ranking Employee

Mark Henry

Person responsible for Toxic Substance Reduction Plan preparation

Kaarle Ottonen

## Organization Validation

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## Company and Parent Company Information

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### Company Details

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Company Legal Name: \*

Company Trade Name: \*

Business Number: \*

### Mailing Address

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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

### Parent Companies

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Empty

## Facility Validation

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The information in this section was copied from the Single Window Information Manager (SWIM) at the time the plan summary was created. Please verify the information and update it where required. Please note that any changes made here will only be reflected in this plan summary. To ensure updates reflected in future reports, please ensure the information is updated in SWIM. After making updates in SWIM, return here and click the "Refresh" button to trigger a reload of the SWIM information. Please note all previously entered data will be modified.

## Facility Information

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Facility Name: *	<input type="text" value="EMIRFI SHIELD PLATING INC."/>
NAICS Code: *	<input type="text" value="332810"/>
NPRI Id: *	<input type="text" value="0000005964"/>
ON Reg 127/01 Id	<input type="text" value="5744"/>

## Facility Mailing Address

---

Delivery Mode	<input type="text"/>
PO Box	<input type="text"/>
Rural Route Number	<input type="text"/>
Address Line 1	<input type="text" value="1 - 123 Manville Road Northeast"/>
City *	<input type="text" value="Scarborough"/>
Province/Territory **	<input type="text" value="Ontario"/>
Postal Code: **	<input type="text" value="M1L 4J8"/>

## Physical Address

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Address Line 1	<input type="text" value="1 - 123 Manville Road Northeast"/>
City	<input type="text"/>
Province/Territory **	<input type="text"/>
Postal Code **	<input type="text"/>
Additional Information	<input type="text"/>

Land Survey Description

National Topographical Description

## Geographical Address

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Latitude \*\*

Longitude \*\*

UTM Zone \*\*

UTM Easting \*\*

UTM Northing \*\*

## Contact Validation

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The information in this section was copied from the Single Window Information Manager (SWIM) at the time the plan summary was created. Please verify the information and update it where required. Please note that any changes made here will only be reflected in this plan summary. To ensure updates reflected in future reports, please ensure the information is updated in SWIM. After making updates in SWIM, return here and click the "Refresh" button to trigger a reload of the SWIM information. Please note all previously entered data will be modified.

## Contacts

---

### Public Contact

---

First Name: \*

Last Name: \*

Position: \*

Telephone: \*

Ext

Fax

Email: \*

## Mailing Address

---

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City \*

Province/Territory \*\*

Postal Code: \*\*

### Highest Ranking Employee

---

First Name: \*

Last Name: \*

Position: \*

Telephone: \*

Ext

Fax

Email: \*

### Mailing Address

---

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City \*

Province/Territory \*\*

Postal Code: \*\*

### Person responsible for the Toxic Substance Reduction Plan preparation

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First Name: *	<input type="text" value="Kaarle"/>
Last Name: *	<input type="text" value="Ottonen"/>
Position: *	<input type="text" value="Environmental Manager"/>
Telephone: *	<input type="text" value="4167596731"/>
Ext	<input type="text" value="639"/>
Fax	<input type="text" value="4167598057"/>
Email: *	<input type="text" value="kaarle.ottonen@shieldplating.com"/>

## Mailing Address

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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="1 - 123 Manville Rd Road Southeast"/>
City *	<input type="text" value="Scarborough"/>
Province/Territory **	<input type="text" value="Ontario"/>
Postal Code: **	<input type="text" value="M1L4J8"/>

## Employees

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### Employees

---

Number of Full-time Employees: \*

## Copy of Certifications of Plan

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Copy of Certifications of Plan

### Upload Document

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A copy of the certification statement(s) from the Highest Ranking Employee and the Licensed Planner(s), for the Toxic Substance Reduction Plan for which the Plan Summary is being submitted are required. Please upload a single document containing all certifications.

Do not upload any certification statements that are dated after December 31. If this applies, click "?" (Help)

for more information.

Comments

Website address where the Plan Summary is posted for the public

**File Name**

**Date**

Highest Ranking Employee.docx

29/04/2013 9:17:19 AM

## Plan Summary Submission

### Electronic Submission

Company Name

EMI RFI Shield Plating Inc

Facility Name

EMIRFI SHIELD PLATING INC.

Report Submitted By (authorized delegate)

Kaarle Ottonen

I, the authorized delegate, acknowledge that by pressing the "Continue" button, I am electronically submitting the facility TRA Plan Summary for the identified facility.

### Substances

50-00-0, Formaldehyde

50-00-0, Formaldehyde

### Substances Section Data

### Statement of Intent

Are the following included in the Facility's TRA Plan?

### Use

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: \*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: \*\*

As the product is in a propriatry chemical mixture which is required and this product is necessary for customer specifications

## Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: \*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: \*\*

No this product is not created

## Objectives, Targets and Description

### Objectives

Objectives in plan: \*

No objectives in the present plan

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

or

What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

or

Description of targets



## Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

No quantity target

Quantity

Unit



or



What is the targeted timeframe for this reduction? \*

No timeline target

years



or

Description of Target

## Reasons for Use

Why is the toxic substance used at the facility?: \*

As a formulation component

Summarize why the toxic substance is used at the facility: \*\*

It is used as a formulated component which is necessary for plating customer specified products

## Reasons for Creation

Why is the toxic substance created at the facility?: \*

This substance is not created at the facility

Summarize why the toxic substance is created at the facility: \*\*

## Toxic Reduction Options for Implementation

### Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: \*

Yes, we are not implementing

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option.  
Explanation of the reasons why no option will be implemented: \*\*

As the product is a formulated component and this is required by customer specifications

## Materials or feedstock substitution

Empty

## Product design or reformulation

Empty

## Equipment or process modifications

Empty

## Spill or leak prevention

Empty

## On-site reuse, recycling or recovery

Empty

## Improved inventory management or purchasing techniques

Empty

## Good operator practice or training

Empty

Rationale for why the listed options were chosen for implementation

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): \*

TSRP0062

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

TSRP0062

What version of the plan is this summary based on?: \*

New Plan

## 67-56-1, Methanol

67-56-1, Methanol

## Substances Section Data

## Statement of Intent

---

Are the following included in the Facility's TRA Plan?

### Use

---

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: \*

Yes

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: \*\*

EMI RFI Shield Plating Inc. is committed to implementing programs and practices that mitigate the use of toxic substances, like that of methanol, which may have a negative impact on human health and the Environment

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: \*\*

### Creation

---

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: \*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: \*\*

Product is not created

## Objectives, Targets and Description

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### Objectives

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Objectives in plan: \*

Objectives in the plan is to intend to reduce the use of methanol through implementing new programs and practices

### Use Targets

---

What is the targeted reduction in use of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

or

What is the targeted timeframe for this reduction? \*

**No timeline target**  or **years**

or

Description of targets

### Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

**No quantity target**  or **Quantity**  **Unit**

or

What is the targeted timeframe for this reduction? \*

**No timeline target**  or **years**

or

Description of Target

### Reasons for Use

Why is the toxic substance used at the facility?: \*

Summarize why the toxic substance is used at the facility: \*\*

### Reasons for Creation

Why is the toxic substance created at the facility?: \*

Summarize why the toxic substance is created at the facility: \*\*

## Toxic Reduction Options for Implementation

### Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: \*

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option. Explanation of the reasons why no option will be implemented: \*\*

### Materials or feedstock substitution

Empty

### Product design or reformulation

Empty

### Equipment or process modifications

Empty

### Spill or leak prevention

Empty

### On-site reuse, recycling or recovery

Empty

### Improved inventory management or purchasing techniques

Empty

### Good operator practice or training

### Training related to toxics substance reduction

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

## Estimates

N/A	tonnes	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.62	3
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.17	3
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Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.14	3
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Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which total **recycling off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:

1

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:

Rationale for why the listed options were chosen for implementation

There is a substantial reduction which leadsto cost savings

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan

Designated dispensing area to reclaim any spills. Improved ordering with first in and first out procedures. Forward primary level plating cycle methanol to secondary level plating cycle for futher use

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): \*

TSRP0062

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

TSRP0062

What version of the plan is this summary based on?: \*

New Plan

## 7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

## Substances Section Data

### Statement of Intent

Are the following included in the Facility's TRA Plan?

### Use

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: \*

Yes

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: \*\*

EMI RFI Shield Plating Inc. is committed to implementing programs and practices that mitigate the use of toxic substances, like that of sulfuric acid, which may have a negative impact on human health and the Environment

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: \*\*

## Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: \*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: \*\*

Is not a created toxic substance

## Objectives, Targets and Description

### Objectives

Objectives in plan: \*

Objectives of the plan is to intend to reduce the use of sulfuric acid through implementing new programs and practices

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

or

What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

or



Description of targets

Treat acid copper and reuse solution, inspect tanks for leaks, prevent cross contamination in bright dips, follow first in and first out procedures, weekly bath analysis for bright nickels, ensure dragouts for bright nickels are used for replenishment, spill training, use spent sulfuric acid dips for effluent pH adjustments, look at alternative chemistry for tri acids, remove a plating line which contains sulfuric acid in some of the chemistries

Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

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

What is the targeted timeframe for this reduction? \*

No timeline target	years
<input checked="" type="checkbox"/>	or <input data-bbox="709 900 1490 942" type="text"/>

Description of Target

Reasons for Use

Why is the toxic substance used at the facility?: \*

Summarize why the toxic substance is used at the facility: \*\*

The toxic substance is used in a variety of applications. It is used for pH adjustment in both plating tanks and effluent. It is a component in some chromates. It is also used in cleaning and etching cycles of parts and is also found in proprietary supplied chemicals. It is also used to remove surface material when cleaning of tanks is required

Reasons for Creation

Why is the toxic substance created at the facility?: \*

Summarize why the toxic substance is created at the facility: \*\*

## Toxic Reduction Options for Implementation

### Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: \*

No, we are implementing

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option. Explanation of the reasons why no option will be implemented: \*\*

### Materials or feedstock substitution

Empty

### Product design or reformulation

### Modified design or composition

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Modified design or composition

Describe the option: \*

To investigate alternative chemistries which use less or no sulfuric acid in their composition

### Estimates

N/A	tonnes	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.09	0.47
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.00	0.17
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Estimate of the amount by which the total <strong>releases to water</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the total <strong>releases to land</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the <strong>disposals on-site</strong> (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the <strong>disposals off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

<input type="checkbox"/>	0.00	0.01
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Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

<input type="checkbox"/>	2
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Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

<input checked="" type="checkbox"/>	
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## Equipment or process modifications

## Other

## Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Other

Describe the option: \*

To remove a plating line which uses sulfuric acid

## Estimates

N/A	tonnes	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.02	0.09
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
-------------------------------------	--	--

Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.00	0.01
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Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
-------------------------------------	--	--

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

<input type="checkbox"/>	0.02	0.13
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Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

## Spill or leak prevention

Implemented inspection or monitoring program of potential spill or leak sources

## Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Implemented inspection or monitoring program of potential spill or leak sources

Describe the option: \*

Spill and leak prevention training

## Estimates

**N/A** **tonnes** **%**

Estimate of the amount by which the <strong>use</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the <strong>creation</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the toxic substance <strong>contained in the product</strong> leaving the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total <strong>releases to air</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total <strong>releases to water</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total <strong>releases to land</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the <strong>disposals on-site</strong> (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the <strong>disposals off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life

Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life

Describe the option: \*

To implement first in and first out procedures

**Estimates**

N/A	tonnes	%
-----	--------	---

Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.13	0.71
--------------------------	------	------

Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
-------------------------------------	--	--

Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
-------------------------------------	--	--

Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.00	0.22
--------------------------	------	------

Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
-------------------------------------	--	--

Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total **recycling off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:

## Good operator practice or training

### Training related to toxics substance reduction

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

## Estimates

**N/A** **tonnes** **%**

Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:



Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total **recycling off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** years

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:

1

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

Rationale for why the listed options were chosen for implementation

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): \*

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

What version of the plan is this summary based on?: \*

## NA - 03, Cadmium (and its compounds)

NA - 03, Cadmium (and its compounds)

### Substances Section Data

### Statement of Intent

Are the following included in the Facility's TRA Plan?

### Use

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: \*

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: \*\*

## Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: \*

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: \*\*

## Objectives, Targets and Description

### Objectives

Objectives in plan: \*

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

<input type="checkbox"/>	or	<input type="text" value="32.68"/>	<input type="text" value="kg"/>
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What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

<input type="checkbox"/>	or	<input type="text" value="2"/>
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Description of targets

## Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

No quantity target

Quantity

Unit

or



What is the targeted timeframe for this reduction? \*

No timeline target

years

or

Description of Target

## Reasons for Use

Why is the toxic substance used at the facility?: \*

Summarize why the toxic substance is used at the facility: \*\*

## Reasons for Creation

Why is the toxic substance created at the facility?: \*

Summarize why the toxic substance is created at the facility: \*\*

## Toxic Reduction Options for Implementation

Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: \*

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option.  
Explanation of the reasons why no option will be implemented: \*\*

**Materials or feedstock substitution**

Empty

**Product design or reformulation**

**Modified design or composition**

**Which activities will be undertaken to implement these reduction options?**

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

**Estimates**

N/A	kg	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="14.31"/>	<input type="text" value="10"/>
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="6.64"/>	<input type="text" value="10"/>
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Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="0.00"/>	<input type="text" value="10"/>
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Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="0.05"/>	<input type="text" value="10"/>
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Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total **recycling off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

### Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:

### Equipment or process modifications

Empty

### Spill or leak prevention

Empty

### On-site reuse, recycling or recovery

Empty

### Improved inventory management or purchasing techniques

Empty

### Good operator practice or training

### Training related to toxics substance reduction

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Training related to toxics substance reduction

Describe the option: \*

During in process plating the operator is to forward plating components to Quality Assurance and determine the thickness of cadmium on the parts via a XRF machine

## Estimates

N/A	kg	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	17.6	12
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	8.4	12
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Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.00	5
--------------------------	------	---

Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	0.06	12
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Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

<input type="checkbox"/>	0.37	12
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Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

<input type="checkbox"/>	1
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Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

<input checked="" type="checkbox"/>	
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Rationale for why the listed options were chosen for implementation

To prevent any potential human health risks and environmental risks

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan

The plating bath has a filtration system installed to remove fine particulate matter and the bath is carbon treated on a regular basis to remove organic matter. Other impurities are removed through low current dunning. This prevents the disposal of the plating solution.

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): \*

TSRP0062

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

TSRP0062

What version of the plan is this summary based on?: \*

New Plan

## NA - 19, Hexavalent chromium (and its compounds)

NA - 19, Hexavalent chromium (and its compounds)

## Substances Section Data



## Statement of Intent

Are the following included in the Facility's TRA Plan?

### Use

Is there a statement that the owner or operator of the facility intends to reduce the use of the toxic substance at the facility?: \*

Yes

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the use of the toxic substance at the facility: \*\*

EMI RFI Shield Plating Inc. is committed to implementing programs and practices that mitigate the use of toxic substances, like that of Hexavalent chrome, which may have a negative impact on human health and the Environment

If 'no', reason in the facility's TRA Plan for no intent to reduce the use of the toxic substance at the facility: \*\*

### Creation

Is there a statement that the owner or operator of the facility intends to reduce the creation of the toxic substance at the facility?: \*

No

If 'yes', exact statement of the intent that is included in the facility's TRA Plan to reduce the creation of the toxic substance at the facility: \*\*

If 'no', reason in the facility's TRA Plan for no intent to reduce the creation of the toxic substance at the facility: \*\*

Toxic substance is not created

## Objectives, Targets and Description

### Objectives

Objectives in plan: \*

The objective in the plan is to intend to reduce the use of hexavalent chrome through implementing new programs and practices

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

No quantity target

Quantity

Unit

or

What is the targeted timeframe for this reduction? \*

**No timeline target**  or **years**

or

Description of targets

To investigate hexavalent free chemistries and to install where possible. To remove an existing hexavalent plating line. To prevent chemistry from becoming expired and to improve spill training. To prevent cross contamination

### Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

No quantity target	Quantity	Unit
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or

What is the targeted timeframe for this reduction? \*

**No timeline target**  or **years**

or

Description of Target

### Reasons for Use

Why is the toxic substance used at the facility?: \*

For on-site use/processing

Summarize why the toxic substance is used at the facility: \*\*

The toxic substance is used for plating specification required by the customer

### Reasons for Creation

Why is the toxic substance created at the facility?: \*

This substance is not created at the facility

Summarize why the toxic substance is created at the facility: \*\*

## Toxic Reduction Options for Implementation

### Description of the toxic reduction option(s) to be implemented

Is there a statement that no option will be implemented?: \*

If you answered "No" to this question, please add the option(s) under the appropriate Toxic Substance Reduction Categories (e.g. Materials or feedstock substitution, Product design or reformulation, etc.). If you answered "Yes" please provide an explanation below why your facility is not implementing an option. Explanation of the reasons why no option will be implemented: \*\*

## Materials or feedstock substitution

### Substituted materials

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

## Estimates

N/A	kg	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="25.64"/>	<input type="text" value="20"/>
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="15.77"/>	<input type="text" value="20"/>
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Estimate of the amount by which the total **releases to air** of the toxic substance at the

facility will be reduced as a result of implementing the option:

0.87 20

Estimate of the amount by which the total <strong>releases to water</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

1.92 20

Estimate of the amount by which the total <strong>releases to land</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

[ ] [ ]

Estimate of the amount by which the <strong>disposals on-site</strong> (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

[ ] [ ]

Estimate of the amount by which the <strong>disposals off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

7.08 20

Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

[ ] [ ]

## Timelines

**N/A** years

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

3

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

[ ]

## Product design or reformulation

Empty

## Equipment or process modifications

## Other

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Other

Describe the option: \*

To remove a hexavalent plating line

## Estimates

N/A	kg	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	35.91	50
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Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	39.41	50
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Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	2.19	50
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Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	2.4	25
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Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

<input checked="" type="checkbox"/>		
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Estimate of the amount by which the <strong>disposals off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

## Spill or leak prevention

Implemented inspection or monitoring program of potential spill or leak sources

## Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

## Estimates

**N/A** **kg** **%**

Estimate of the amount by which the <strong>use</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the <strong>creation</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total **recycling off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the **use** of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the **creation** of the toxic substance:

On-site reuse, recycling or recovery

Empty

Improved inventory management or purchasing techniques

Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life

Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

**Estimates**

N/A	kg	%
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Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="12.82"/>	<input type="text" value="10"/>
--------------------------	------------------------------------	---------------------------------

Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

<input type="checkbox"/>	<input type="text" value="0.44"/>	<input type="text" value="10"/>
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Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:



Estimate of the amount by which the total <strong>releases to land</strong> of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the <strong>disposals on-site</strong> (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the <strong>disposals off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total <strong>recycling off-site</strong> of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

## Good operator practice or training

### Training related to toxics substance reduction

### Which activities will be undertaken to implement these reduction options?

Which activities will be undertaken to implement these reduction options?: \*

Describe the option: \*

## Estimates

**N/A** **kg** **%**

Estimate of the amount by which the **use** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the **creation** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the toxic substance **contained in the product** leaving the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to air** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to water** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the total **releases to land** of the toxic substance at the facility will be reduced as a result of implementing the option:

Estimate of the amount by which the **disposals on-site** (including tailing and waste rock) of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which the **disposals off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

Estimate of the amount by which total **recycling off-site** of the toxic substance at the facility will be reduced as a result on implementing this option:

## Timelines

**N/A** **years**

Anticipated timelines for achieving the estimated reduction of the <strong>use</strong> of the toxic substance:

Anticipated timelines for achieving the estimated reduction of the <strong>creation</strong> of the toxic substance:

Rationale for why the listed options were chosen for implementation

General description of any actions undertaken by the owner and operator of the facility to reduce the use and creation of the toxic substance at the facility that are outside of the plan

License Number of the toxic substance reduction planner who made recommendations in the toxic substance reduction plan for this substance (format TSRPXXXX): \*

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

What version of the plan is this summary based on?: \*