

Report Preview

Company Details

Name

Viasystems Toronto, Inc.

Address

8150 Sheppard Avenue East, Toronto (Ontario)

Report Details

Report Status

Submitted

2014

Report Type

Inventory

Facility Name

Sheppard Facility

Facility Address

8150 Sheppard Avenue East, Toronto (Ontario)

Update Comments

Activity Details

Applicable Programs

Please select all that apply.

Environment Canada Programs

NPRI - National Pollutant Release Inventory

Partnering Programs

ON MOE TRA - Ontario Ministry of the Environment for the Toxic Reductions Act

ON MOE Reg. 127/01 - Ontario Ministry of the Environment for the Airborne Contaminant Discharge Monitoring and Reporting Regulation

- NERM - Chemistry Industry Association of Canada for the National Emission Reduction Masterplan survey
- NFPRER - National Framework for Petroleum Refinery Emission Reductions

Contacts

Select the appropriate person from the drop-down menu for each contact.

Facility Contacts

Select the appropriate person from the drop-down menu for each contact.

Technical Contact: *

Mark Scruton

Certifying Official (or authorized delegate): *

Mark Scruton

Highest Ranking Employee: *

Jon Pereira

Person who prepared the report: *

Mark Scruton

Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted)

Mark Scruton

Company Coordinator (optional)

Mark Scruton

Public Contact (optional)

Mark Scruton

Contractor Contact (optional)

If you are an independent contractor or consultant, please enter your company name in the field below

Employees and Activities

Employees

Number of Employees *

525

Activities

If your facility was engaged in any of the following activities, check the relevant box(es), otherwise click "None of the Above". For the second "Activities" list, if you select one of these activities then you must report dioxins, furans and hexachlorobenzene.

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: (check all that apply) *

None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexachlorobenzene: (check all that apply) *

None of the above

Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs)

Did the following activity take place at the facility?

Wood preservation using creosote: *

No

General Facility Information

NPRI

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? *

Yes

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants)? *

No

If 'Yes' to reporting for one or more Part 4 substances: Was the facility shut down for more than one week during the year? **

Operating Schedule - Days of the Week **

| Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Operating Schedule - Hours **

Usual Number of Operating Hours per day

Usual Daily Start Time (24h) (hh:mm)

Shutdown Periods **

To report a shutdown period, click the "+" sign to the right side of the screen.

Empty

General Comments for Facility

Comments

Verify Facility Information

Company Information

Company Details

Company Legal Name

Viasystems Toronto, Inc.

Business Number

122456379

Mailing Address

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

8150 Sheppard Avenue East

City *

Toronto

Province/Territory **

Ontario

Postal Code: **

M1B5K2

Country *

Canada

Facility Information

Facility *

Sheppard Facility

NAICS Code *

334410

NPRI ID *

Facility Physical Address

Address Line 1

City

Province/Territory

Postal Code

Country

Additional Information

Land Survey Description

National Topographical Description

Geographical Address

Latitude **

Longitude **

UTM Zone **

UTM Easting **

UTM Northing **

Facility Contacts

Contact Types

Technical 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: **

Country *

Certifying Official

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: **

Country *

Company Coordinator

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: **

Country *

Highest Ranking Employee

| | |
|---------------|---|
| First Name: * | <input type="text" value="Jon"/> |
| Last Name: * | <input type="text" value="Pereira"/> |
| Position: * | <input type="text" value="General Manager"/> |
| Telephone: * | <input type="text" value="4162082100"/> |
| Ext | <input type="text" value="2206"/> |
| Fax | <input type="text"/> |
| Email: * | <input type="text" value="Jon.Pereira@viasystems.com"/> |

Mailing Address

| | |
|-----------------------|--|
| 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="8150 Sheppard Avenue East"/> |
| City * | <input type="text" value="Toronto"/> |
| Province/Territory ** | <input type="text" value="Ontario"/> |
| Postal Code: ** | <input type="text" value="M1B 5K2"/> |
| Country * | <input type="text" value="Canada"/> |

Person who prepared the report

| | |
|---------------|---|
| First Name: * | <input type="text" value="Mark"/> |
| Last Name: * | <input type="text" value="Scruton"/> |
| Position: * | <input type="text" value="Dir. of EHSS"/> |
| Telephone: * | <input type="text" value="4162082127"/> |
| Ext | <input type="text"/> |

Fax

Email: *

Mailing Address

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City *

Province/Territory **

Postal Code: **

Country *

Person who coordinated the preparation of the Toxics Reduction Plan

First Name: *

Last Name: *

Position: *

Telephone: *

Ext

Fax

Email: *

Mailing Address

Delivery Mode

PO Box

Rural Route Number

| | |
|-----------------------|---------------------------|
| Address Line 1 | 8150 Sheppard Avenue East |
| City * | Toronto |
| Province/Territory ** | Ontario |
| Postal Code: ** | M1B5K2 |
| Country * | Canada |

Public Contact

| | |
|---------------|-----------------------------|
| First Name: * | Mark |
| Last Name: * | Scruton |
| Position: * | Dir. of EHSS |
| Telephone: * | 4162082127 |
| Ext | |
| Fax | 4162082154 |
| Email: * | Mark.Scruton@viasystems.com |

Mailing Address

| | |
|-----------------------|---------------------------|
| Delivery Mode | |
| PO Box | |
| Rural Route Number | |
| Address Line 1 | 8150 Sheppard Avenue East |
| City * | Toronto |
| Province/Territory ** | Ontario |
| Postal Code: ** | M1B5K2 |
| Country * | Canada |

Environmental Regulations or Permits

Permits

8991-6N5LSA

Number or Permit Number

8991-6N5LSA

Government Department, Agency, or Program Name

Ministry of the Environment, Cert. of Air Approval

ON0761503

Number or Permit Number

ON0761503

Government Department, Agency, or Program Name

Ministry of the Environment, Regulation 347

533929

Number or Permit Number

533929

Government Department, Agency, or Program Name

CEPA EIHW Export Notice Number (2013 - 2014)

536021

Number or Permit Number

536021

Government Department, Agency, or Program Name

CEPA EIHW Export Notice Number (2014 - 2015)

Pollution Prevention

Pollution Prevention Plans

Does the facility have a documented pollution prevention plan? *

Yes

If 'Yes'

a) Please check all that apply

Plan was prepared or implemented for another government jurisdiction (i.e. other Federal government department, province, municipality). Specify name in comments field below.

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

Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available) **

We have an MOE TRA Plan and a City of Toronto P2 Plan

Pollution Prevention Activities

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

Yes

Selecting "Yes" will initiate the reporting of the specific pollution prevention activities that were completed in the current reporting year on the following screen.

Pollution Prevention Activities

Please indicate the pollution prevention activities that your facility implemented by checking the appropriate activities from the categories listed below.

Spill or Leak Prevention Activities

Implemented inspection or monitoring program of potential spill or leak sources

Good Operating Practice or Training

Improved maintenance scheduling, record keeping

Substance Details

50-00-0, Formaldehyde

50-00-0, Formaldehyde

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

No

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

As a reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

18.901

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Creation

The amount of substance that is created

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

- There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

- There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

- There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Total Quantity Released (All Media)

Releases to All Media

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-------------------------|---------------------------|-------------------|
| Total Quantity Released | O - Engineering Estimates | 0.030 |

Breakdown of Annual Releases

- Distribute Equally

Quarterly Breakdown *

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|-------------|-------------|-------------|-------------|
| 25 | 25 | 25 | 25 |

Total %

100

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments ? (On-Site Releases) **

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill | NA - Not Applicable | |
| Land Treatment | NA - Not Applicable | |
| Underground Injection | NA - Not Applicable | |

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill | NA - Not Applicable | |
| Land Treatment | NA - Not Applicable | |
| Underground Injection | NA - Not Applicable | |

Storage

NA - Not Applicable

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------------------------------|---------------------------|----------------------|
| Physical Treatment | NA - Not Applicable | <input type="text"/> |
| Chemical Treatment | O - Engineering Estimates | 0.009 |
| Biological Treatment | NA - Not Applicable | <input type="text"/> |
| Incineration / Thermal | NA - Not Applicable | <input type="text"/> |
| Municipal Sewage Treatment Plant | O - Engineering Estimates | 0.034 |

Total - Treatment Prior to Final Disposal

0.043

Total Quantity Disposed (All Media)

0.043

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.009

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------|-------------------|--------------------------------------|
| Detox Environmental Ltd. | 0.009 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

0.009

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.034

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------------------|-------------------|---|
| Highland Creek Water Treatment Plant | 0.034 | 1160 Highland Creek W., Toronto, ON, Canada |

Total Assigned (must equal total reported)

0.034

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels

Comments? (Disposals)

Due to El. Cu Bath Contamination

Recycling

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Other (specify in recycling comments field)

Comments? (Recycling)

Formaldehyde not recycled

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 18.901 | 17.854 | 2013 | 1.047 | 5.86 |

Creation

Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (Tonnes) | Last Reported | Reporting Period | Change | % Change |
|-------------------|---------------|------------------|--------|----------|
|-------------------|---------------|------------------|--------|----------|

Quantity (Tonnes) * **of Last Reported Quantity ***

| | | | | |
|---|---|------|---|--|
| 0 | 0 | 2013 | 0 | |
|---|---|------|---|--|

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Quantity Released (All Media)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.030 | 0.033 | 2013 | -0.003 | -9.09 |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.043 | 0.035 | 2013 | 0.008 | 22.86 |

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Abnormal incident occurred at facility in the current reporting year, Other

(please specify)

Due to EI Cu Bath Contamination

(please specify): Due to EI Cu Bath Contamination

7647-01-0, Hydrochloric acid

7647-01-0, Hydrochloric acid

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

Yes

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

As a reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

66.61

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Creation

The amount of substance that is created

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Total Quantity Released (All Media)

Releases to All Media

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-------------------------|---------------------------|-------------------|
| Total Quantity Released | O - Engineering Estimates | 0.965 |

Breakdown of Annual Releases

Distribute Equally

Quarterly Breakdown *

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|-------------|-------------|-------------|-------------|
| 25 | 25 | 25 | 25 |

Total %

100

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

Changes in estimation methods

Comments ? (On-Site Releases) **

Minor Emission Calculation rate change, corrected equation to reflect 365 days per year.

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------|-------------------|-------------------|
|----------|-------------------|-------------------|

| | | |
|----------|---------------------|--|
| Landfill | NA - Not Applicable | |
|----------|---------------------|--|

| | | |
|----------------|---------------------|--|
| Land Treatment | NA - Not Applicable | |
|----------------|---------------------|--|

| | | |
|-----------------------|---------------------|--|
| Underground Injection | NA - Not Applicable | |
|-----------------------|---------------------|--|

Total - On-site Disposals

| |
|--|
| |
|--|

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------|-------------------|-------------------|
|----------|-------------------|-------------------|

| | | |
|----------|---------------------|--|
| Landfill | NA - Not Applicable | |
|----------|---------------------|--|

| | | |
|----------------|---------------------|--|
| Land Treatment | NA - Not Applicable | |
|----------------|---------------------|--|

| | | |
|-----------------------|---------------------|--|
| Underground Injection | NA - Not Applicable | |
|-----------------------|---------------------|--|

| | | |
|---------|---------------------|--|
| Storage | NA - Not Applicable | |
|---------|---------------------|--|

Total - Off-site Disposals

| |
|--|
| |
|--|

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------|-------------------|-------------------|
|----------|-------------------|-------------------|

| | | |
|--------------------|---------------------|--|
| Physical Treatment | NA - Not Applicable | |
|--------------------|---------------------|--|

| | | |
|--------------------|---------------------------|--------|
| Chemical Treatment | O - Engineering Estimates | 0.3354 |
|--------------------|---------------------------|--------|

| | | |
|----------------------|---------------------|--|
| Biological Treatment | NA - Not Applicable | |
|----------------------|---------------------|--|

| | | |
|------------------------|---------------------|--|
| Incineration / Thermal | NA - Not Applicable | |
|------------------------|---------------------|--|

Municipal Sewage Treatment Plant

NA - Not Applicable

Total - Treatment Prior to Final Disposal

0.3354

Total Quantity Disposed (All Media)

0.3354

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.3354

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------|-------------------|--------------------------------------|
| Detox Environmental Ltd. | 0.3354 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

0.3354

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Other (specify in disposals comment field)

Comments? (Disposals)

Missed HCl disposal within Sn stripper in previous yrs. Weekly dump of Acid Copper Bath solution from Plating lines. Only way determined successful in reducing TOC per process Engineering.

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Contaminated materials

Off-site Transfers for Recycling

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Off-site Transfers

| Category | Basis Of Estimate | Quantity (Tonnes) |
|---|---------------------------|-------------------|
| Energy Recovery | NA - Not Applicable | |
| Recovery of Solvents | NA - Not Applicable | |
| Recovery of Organic Substances (not solvents) | NA - Not Applicable | |
| Recovery of Metals and Metal Compounds | NA - Not Applicable | |
| Recovery of Inorganic Materials (not metals) | O - Engineering Estimates | 62.643 |
| Recovery of Acids and Bases | NA - Not Applicable | |
| Recovery of Catalysts | NA - Not Applicable | |
| Recovery of Pollution Abatement Residues | NA - Not Applicable | |
| Refining of Re-use of Used Oil | NA - Not Applicable | |
| Other | NA - Not Applicable | |

Total Quantity Recycled

62.643

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Inorganic Materials (not metals)

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

62.643

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|----------------|-------------------|---|
| Micronutrients | 62.643 | 1550 Research Way, Indianapolis, IN, United States |

Total Assigned (must equal total reported)

62.643

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Other (specify in recycling comments field)

Comments? (Recycling)

Etchant Vol increases and N increases by 0.018N.

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your

previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 66.61 | 61.244 | 2013 | 5.366 | 8.76 |

Creation

Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Total Quantity Released (All Media)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.965 | 0.811 | 2013 | 0.154 | 18.99 |

Reasons for Change

Reasons for Change

Reason(s) for Change

Other

(please specify)

Minor Emission calculation rate change, Corrected the operational day to 365 day per year.

(please specify): Minor Emission calculation rate change, Corrected the operational day to 365 day per year.

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.3354 | 0.0012 | 2013 | 0.3342 | 27850.0 |

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Other

(please specify)

Missed HCl disposal within Sn Stripper in previous years.

(please specify): Missed HCl disposal within Sn Stripper in previous years.

Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Total off-site Transfers for Recycling

Total off-site Transfers for Recycling

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 62.643 | 59.197 | 2013 | 3.446 | 5.82 |

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels, Other

(please specify)

Etchant volume increased and N increase by 0.018N

(please specify): Etchant volume increased and N increase by 0.018N

7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

No

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

As a reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

107.04

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Creation

The amount of substance that is created

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

- There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

- There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Total Quantity Released (All Media)

Releases to All Media

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-------------------------|---------------------------|-------------------|
| Total Quantity Released | O - Engineering Estimates | 0.0003 |

Breakdown of Annual Releases

- Distribute Equally

Quarterly Breakdown *

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|-------------|-------------|-------------|-------------|
| 25 | 25 | 25 | 25 |

Total %

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

Comments ? (On-Site Releases) **

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

Contaminated materials

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill | NA - Not Applicable | |
| Land Treatment | NA - Not Applicable | |
| Underground Injection | NA - Not Applicable | |

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill | NA - Not Applicable | |
| Land Treatment | NA - Not Applicable | |
| Underground Injection | NA - Not Applicable | |
| Storage | NA - Not Applicable | |

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|--------------------|---------------------|-------------------|
| Physical Treatment | NA - Not Applicable | |

| | | |
|----------------------------------|---------------------------|-------|
| Chemical Treatment | O - Engineering Estimates | 16.69 |
| Biological Treatment | NA - Not Applicable | |
| Incineration / Thermal | NA - Not Applicable | |
| Municipal Sewage Treatment Plant | NA - Not Applicable | |

Total - Treatment Prior to Final Disposal

16.69

Total Quantity Disposed (All Media)

16.69

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

16.69

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------|-------------------|--------------------------------------|
| Detox Environmental Ltd. | 16.69 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

16.69

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Other (specify in disposals comment field)

Comments? (Disposals)

Weekly Dump of Acid Copper bath solution from Plating Lines. Only way Determined successful in reducing TOC per process eng.

Recycling

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 107.04 | 93.638 | 2013 | 13.402 | 14.31 |

Creation

Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Implementation of actions outside of toxics reduction plan, Other

(please specify)

Significant process change. 9.3 MT of Sulfuric Acid used for Plating make up due to weekly dump of Acid Copper Bath solutuion.

(please specify): Significant process change. 9.3 MT of Sulfuric Acid used for Plating make up due to weekly dump of Acid Copper Bath solutuion.

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Quantity Released (All Media)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.0003 | 0.0003 | 2013 | 0.0000 | 0 |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 16.69 | 8.699 | 2013 | 7.991 | 91.86 |

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Implementation of actions outside of toxics reduction plan, Other

(please specify)

Weekly dump of Acid Copper Bath solution from plating line due to Quality issues.

(please specify): Weekly dump of Acid Copper Bath solution from plating line due to Quality issues.

7697-37-2, Nitric acid

7697-37-2, Nitric acid

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

No

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

As a reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

23.28

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Creation

The amount of substance that is created

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

- There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

- There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Enter the values for releases to air for the substance

Releases to Air

| Category | Basis Of Estimate | Quantity (Tonnes) |
|------------------------------|---------------------------|-------------------|
| Stack or Point Releases | O - Engineering Estimates | 1.246 |
| Storage or Handling Releases | NA - Not Applicable | |
| Fugitive Releases | NA - Not Applicable | |
| Spills | NA - Not Applicable | |
| Other Non-point Releases | NA - Not Applicable | |

Total - Releases to Air

Enter the values for releases to water bodies

Releases to Water Bodies

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-------------------|---------------------|-------------------|
| Direct Discharges | NA - Not Applicable | |
| Spills | NA - Not Applicable | |

Leaks NA - Not Applicable

Total - Releases to Water Bodies

Enter the values for releases to land (surface and underground)

Releases to Land (the nature of "Other" releases must be specified in the Comments)

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-----------------------------|--|----------------------|
| Spills <input type="text"/> | NA - Not Applicable <input type="text"/> | <input type="text"/> |
| Leaks <input type="text"/> | NA - Not Applicable <input type="text"/> | <input type="text"/> |
| Other <input type="text"/> | NA - Not Applicable <input type="text"/> | <input type="text"/> |

Total - Releases to Land

Total Quantity Released

1.246

Breakdown of Annual Releases

Distribute Equally

Quarterly Breakdown *

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|-------------------------|-------------------------|-------------------------|-------------------------|
| 25 <input type="text"/> | 25 <input type="text"/> | 25 <input type="text"/> | 25 <input type="text"/> |

Total %

100

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments ? (On-Site Releases) **

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|--|--|----------------------|
| <input type="text" value="Landfill"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Land Treatment"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Underground Injection"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|--|--|----------------------|
| <input type="text" value="Landfill"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Land Treatment"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Underground Injection"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Storage"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------------------------------|---------------------------|-------------------|
| Physical Treatment | NA - Not Applicable | |
| Chemical Treatment | O - Engineering Estimates | 14.59 |
| Biological Treatment | NA - Not Applicable | |
| Incineration / Thermal | NA - Not Applicable | |
| Municipal Sewage Treatment Plant | NA - Not Applicable | |

Total - Treatment Prior to Final Disposal

14.59

Total Quantity Disposed (All Media)

14.59

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

14.59

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------|-------------------|--------------------------------------|
| Detox Environmental Ltd. | 14.59 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

14.59

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels, Other (specify in disposals comment field)

Comments? (Disposals)

Slightly More Tin Stripper disposed of via Detox.

Recycling

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 23.28 | 20.505 | 2013 | 2.775 | 13.53 |

Creation

Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels, Other

(please specify)

Bought 1.3 MT more Nitric in Sn Stripper, Bought more 25% and 50% Nitric Acid as well to ensure effective Ni tank cleaning

(please specify): Bought 1.3 MT more Nitric in Sn Stripper, Bought more 25% and 50% Nitric Acid as well to ensure effective Ni tank cleaning

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Releases to Air

Total Releases to Air

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 1.246 | 1.201 | 2013 | 0.045 | 3.75 |

Total Releases to Water

Total Releases to Water

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Releases to Land

Total Releases to Land

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 14.59 | 12.441 | 2013 | 2.149 | 17.27 |

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels, Other

(please specify)

~10% increase in production. More Tin Stripper disposed of via Detox, and more acid used to effectively strip the Nickle tank

(please specify): ~10% increase in production. More Tin Stripper disposed of via Detox, and more acid used to effectively strip the Nickle tank

NA - 06, Copper (and its compounds)

NA - 06, Copper (and its compounds)

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

No

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

Yes

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

As a reactant, As an article component

Otherwise Use of the Substance

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

164.76

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Creation

The amount of substance that is created

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

35.95

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments ? (On-Site Releases) **

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|--|--|----------------------|
| <input type="text" value="Landfill"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Land Treatment"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Underground Injection"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|--|--|----------------------|
| <input type="text" value="Landfill"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Land Treatment"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Underground Injection"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Storage"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |

Total - Off-site Disposals

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------------------------------|---------------------------|-------------------|
| Physical Treatment | NA - Not Applicable | |
| Chemical Treatment | O - Engineering Estimates | 9.635 |
| Biological Treatment | NA - Not Applicable | |
| Incineration / Thermal | NA - Not Applicable | |
| Municipal Sewage Treatment Plant | O - Engineering Estimates | 0.072 |

Total - Treatment Prior to Final Disposal

9.707

Total Quantity Disposed (All Media)

9.707

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

9.635

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------|-------------------|--------------------------------------|
| Detox Environmental Ltd. | 9.635 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

9.635

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.072

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------------------|-------------------|---|
| Highland Creek Water Treatment Plant | 0.072 | 1160 Highland Creek W., Toronto, ON, Canada |

Total Assigned (must equal total reported)

0.072

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels, Other (specify in disposals comment field)

Comments? (Disposals)

0.6 MT Came from the frequent dump of Acid Copper Bath solution which goes to Detox.

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Production Residues, Contaminated materials, Unusable parts or discards, Pollution abatement residues, Machine or finishing residues

Off-site Transfers for Recycling

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Off-site Transfers

| Category | Basis Of Estimate | Quantity (Tonnes) |
|---|---------------------------|-------------------|
| Energy Recovery | NA - Not Applicable | |
| Recovery of Solvents | NA - Not Applicable | |
| Recovery of Organic Substances (not solvents) | NA - Not Applicable | |
| Recovery of Metals and Metal Compounds | O - Engineering Estimates | 118.488 |
| Recovery of Inorganic Materials (not metals) | NA - Not Applicable | |
| Recovery of Acids and Bases | NA - Not Applicable | |
| Recovery of Catalysts | NA - Not Applicable | |
| Recovery of Pollution Abatement Residues | NA - Not Applicable | |
| Refining of Re-use of Used Oil | NA - Not Applicable | |
| Other | NA - Not Applicable | |

Total Quantity Recycled

118.488

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Metals and Metal Compounds

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

118.488

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------------|-------------------|---|
| Reldan Metals, LLC | 25.415 | 550 Old Bordentown Road, , Fairless Hills, PA, USA |
| Micronutrients | 66.953 | 1550 Research Way, Indianapolis, IN, United States |
| Combined Metal Industries Inc. | 26.12 | 505 B Garyray Dr., Weston, ON, Canada |

Total Assigned (must equal total reported)

118.488

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Changes in production levels, Other (specify in recycling comments field)

Comments? (Recycling)

More Cupric etchant was sent out for recycling, include the remainder of solution in the bulk tank at the end of the year.

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 164.76 | 157.120 | 2013 | 7.640 | 4.86 |

Creation

Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 35.95 | 33.256 | 2013 | 2.694 | 8.10 |

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that “Last Reported Quantity” and the “Reporting Period of the last reported quantity” reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 9.707 | 7.979 | 2013 | 1.728 | 21.66 |

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| | | | | |

| | | | | |
|---|---|------|---|--|
| 0 | 0 | 2013 | 0 | |
|---|---|------|---|--|

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels, Abnormal incident occurred at facility in the current reporting year, Other

(please specify)

0.6 MT of Acid copper was disposed due to weekly dumps of Acid Copper Bath solution for Quality reason.

(please specify): 0.6 MT of Acid copper was disposed due to weekly dumps of Acid Copper Bath solution for Quality reason.

Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Total off-site Transfers for Recycling

Total off-site Transfers for Recycling

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 118.488 | 115.885 | 2013 | 2.603 | 2.25 |

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

NA - 08, Lead (and its compounds)

NA - 08, Lead (and its compounds)

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

Yes

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

Yes

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

Otherwise Use of the Substance

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (kg) **

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Creation

The amount of substance that is created

Quantity (kg) **

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Contained in Product

The amount of substance contained in product

Quantity (kg) **

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

- There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

- There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

- There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Enter the values for releases to air for the substance

Releases to Air

| Category | Basis Of Estimate | Quantity (kg) |
|------------------------------|---------------------------|---------------|
| Stack or Point Releases | O - Engineering Estimates | 0.086 |
| Storage or Handling Releases | NA - Not Applicable | |
| Fugitive Releases | NA - Not Applicable | |
| Spills | NA - Not Applicable | |

| | | |
|--------------------------|---------------------|--|
| Other Non-point Releases | NA - Not Applicable | |
|--------------------------|---------------------|--|

Total - Releases to Air

0.086

Enter the values for releases to water bodies

Releases to Water Bodies

| Category | Basis Of Estimate | Quantity (kg) |
|-------------------|---------------------|---------------|
| Direct Discharges | NA - Not Applicable | |
| Spills | NA - Not Applicable | |
| Leaks | NA - Not Applicable | |

Total - Releases to Water Bodies

Enter the values for releases to land (surface and underground)

Releases to Land (the nature of "Other" releases must be specified in the Comments)

| Category | Basis Of Estimate | Quantity (kg) |
|----------|---------------------|---------------|
| Spills | NA - Not Applicable | |
| Leaks | NA - Not Applicable | |
| Other | NA - Not Applicable | |

Total - Releases to Land

Total Quantity Released

0.086

Breakdown of Annual Releases

Distribute Equally

Quarterly Breakdown *

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <input type="text" value="25"/> | <input type="text" value="25"/> | <input type="text" value="25"/> | <input type="text" value="25"/> |

Total %

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

Comments ? (On-Site Releases) **

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (kg) |
|--|--|----------------------|
| <input type="text" value="Landfill"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Land Treatment"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Underground Injection"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |

Total - On-site Disposals

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (kg) |
|----------|-------------------|---------------|
|----------|-------------------|---------------|

| | | |
|----------|---------------------|--|
| Landfill | NA - Not Applicable | |
|----------|---------------------|--|

| | | |
|----------------|---------------------|--|
| Land Treatment | NA - Not Applicable | |
|----------------|---------------------|--|

| | | |
|-----------------------|---------------------|--|
| Underground Injection | NA - Not Applicable | |
|-----------------------|---------------------|--|

| | | |
|---------|---------------------|--|
| Storage | NA - Not Applicable | |
|---------|---------------------|--|

Total - Off-site Disposals

| |
|--|
| |
|--|

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (kg) |
|----------------------------------|---------------------------|---------------|
| Physical Treatment | NA - Not Applicable | |
| Chemical Treatment | O - Engineering Estimates | 29.535 |
| Biological Treatment | NA - Not Applicable | |
| Incineration / Thermal | NA - Not Applicable | |
| Municipal Sewage Treatment Plant | O - Engineering Estimates | 0.622 |

Total - Treatment Prior to Final Disposal

| |
|--------|
| 30.157 |
|--------|

Total Quantity Disposed (All Media)

| |
|--------|
| 30.157 |
|--------|

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-

site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (kg)

29.535

Off-site

| Off-Site Name | Quantity (kg) | Address |
|--------------------------|---------------|--------------------------------------|
| Detox Environmental Ltd. | 29.535 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

29.535

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (kg)

0.622

Off-site

| Off-Site Name | Quantity (kg) | Address |
|--------------------------------------|---------------|---|
| Highland Creek Water Treatment Plant | 0.622 | 1160 Highland Creek W., Toronto, ON, Canada |

Total Assigned (must equal total reported)

0.622

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels, Changes in estimation methods, Pollution prevention activities, Other (specify in disposals comment field)

Comments? (Disposals)

Inconsistency Lead content used in Filter Cake. Higher mg/Kg average compared to last year + more dirty rags generated and sent out due to improved IH in dept

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Off-specification products, Contaminated materials, Unusable parts or discards

Off-site Transfers for Recycling

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Off-site Transfers

| Category | Basis Of Estimate | Quantity (kg) |
|---|---------------------------|---------------|
| Energy Recovery | NA - Not Applicable | |
| Recovery of Solvents | NA - Not Applicable | |
| Recovery of Organic Substances (not solvents) | NA - Not Applicable | |
| Recovery of Metals and Metal Compounds | O - Engineering Estimates | 677.073 |
| Recovery of Inorganic Materials (not metals) | NA - Not Applicable | |

| | | |
|--|---------------------|--|
| Recovery of Acids and Bases | NA - Not Applicable | |
| Recovery of Catalysts | NA - Not Applicable | |
| Recovery of Pollution Abatement Residues | NA - Not Applicable | |
| Refining of Re-use of Used Oil | NA - Not Applicable | |
| Other | NA - Not Applicable | |

Total Quantity Recycled

677.073

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Metals and Metal Compounds

Basis of Estimate

O - Engineering Estimates

Quantity (kg)

677.073

Off-site

| Off-Site Name | Quantity (kg) | Address |
|--------------------------------|---------------|---------------------------------------|
| Combined Metal Industries Inc. | 677.073 | 505 B Garyray Dr., Weston, ON, Canada |

Total Assigned (must equal total reported)

677.073

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|----------|----------|
| 853.846 | 1088.235 | 2013 | -234.389 | -21.54 |

Creation

Creation

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|----------|----------|
| 146.529 | 329.071 | 2013 | -182.542 | -55.47 |

Reasons for Change

Reasons for Change

Reason(s) for Change

Decrease in production levels

(please specify)

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Releases to Air

Total Releases to Air

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0.086 | 0.109 | 2013 | -0.023 | -21.10 |

Total Releases to Water

Total Releases to Water

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Releases to Land

Total Releases to Land

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Decrease in production levels, Other

(please specify)

Conservative mass balance approach based on 1 % emission rate before scrubbing.

(please specify): Conservative mass balance approach based on 1 % emission rate before scrubbing.

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that “Last Reported Quantity” and the “Reporting Period of the last reported quantity” reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 30.157 | 10.870 | 2013 | 19.287 | 177.43 |

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Decrease in production levels, Implementation of actions outside of toxics reduction plan, Other

(please specify)

Inconsistent Lead content used in Filter Cake. Higher mg/kg average than last year. Increased IH cleaning in the Dept

(please specify): Inconsistent Lead content used in Filter Cake. Higher mg/kg average than last year. Increased IH cleaning in the Dept

Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total off-site Transfers for Recycling

Total off-site Transfers for Recycling

| Quantity (kg) | Last Reported Quantity (kg) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|---------------|-------------------------------|--|---------|----------|
| 677.073 | 748.185 | 2013 | -71.112 | -9.50 |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same, Decrease in production levels, Other

(please specify)

Less panels processed through HASL Dept. Expect this to continue yr after yr.

(please specify): Less panels processed through HASL Dept. Expect this to continue yr after yr.

NA - 16, Ammonia (total)

NA - 16, Ammonia (total)

Substance Reporting Status

Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. *

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. *

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) *

No

Would you like to create an exit record for this ON MOE TRA substance? *

No

Comments

General Information about the Substance

Releases and Transfers of the Substance

Releases and Transfers of the Substance

Was the substance released on-site? *

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? *

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? *

No

Was the substance transferred off-site for recycling? *

Yes

Nature of Activities *

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

As a reactant

Otherwise Use of the Substance

As a physical or chemical processing aid

TRA Quantifications

Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) **

40.74

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Creation

The amount of substance that is created

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Contained in Product

The amount of substance contained in product

Quantity (Tonnes) **

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. *

Yes

Change in Method of Quantification

There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes **

Select the reason for change: **

Describe how the change impact tracking and quantification of the substance **

Incidents out of the normal course of events

There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected **

Significant Process Change

There has been a significant process change at the facility during the previous calendar year.

On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Enter the values for releases to air for the substance

Releases to Air

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------|-------------------|-------------------|
|----------|-------------------|-------------------|

| | | |
|-------------------------|---------------------------|-------|
| Stack or Point Releases | O - Engineering Estimates | 16.79 |
|-------------------------|---------------------------|-------|

| | | |
|------------------------------|---------------------|--|
| Storage or Handling Releases | NA - Not Applicable | |
|------------------------------|---------------------|--|

| | | |
|-------------------|---------------------|--|
| Fugitive Releases | NA - Not Applicable | |
|-------------------|---------------------|--|

| | | |
|--------|---------------------|--|
| Spills | NA - Not Applicable | |
|--------|---------------------|--|

| | | |
|--------------------------|---------------------|--|
| Other Non-point Releases | NA - Not Applicable | |
|--------------------------|---------------------|--|

Total - Releases to Air

| |
|-------|
| 16.79 |
|-------|

Enter the values for releases to water bodies

Releases to Water Bodies

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-------------------|---------------------|-------------------|
| Direct Discharges | NA - Not Applicable | |
| Spills | NA - Not Applicable | |
| Leaks | NA - Not Applicable | |

Total - Releases to Water Bodies

| |
|--|
| |
|--|

Enter the values for releases to land (surface and underground)

Releases to Land (the nature of "Other" releases must be specified in the Comments)

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------|---------------------|-------------------|
| Spills | NA - Not Applicable | |
| Leaks | NA - Not Applicable | |
| Other | NA - Not Applicable | |

Total - Releases to Land

Total Quantity Released

Breakdown of Annual Releases

Distribute Equally

Quarterly Breakdown *

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <input type="text" value="25"/> | <input type="text" value="25"/> | <input type="text" value="25"/> | <input type="text" value="25"/> |

Total %

Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons *

Comments ? (On-Site Releases) **

Disposals

Reasons Why Substance Was Disposed

Select one or more reasons

On-site Disposal (excluding Tailings and Waste Rock)

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

On-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|---|--|----------------------|
| <input type="text" value="Landfill"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |
| <input type="text" value="Land Treatment"/> | <input type="text" value="NA - Not Applicable"/> | <input type="text"/> |

| | | |
|-----------------------|---------------------|--|
| Underground Injection | NA - Not Applicable | |
|-----------------------|---------------------|--|

Total - On-site Disposals

| |
|--|
| |
|--|

Off-site Disposal (excluding Tailings and Waste Rock)

Off-site Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill | NA - Not Applicable | |
| Land Treatment | NA - Not Applicable | |
| Underground Injection | NA - Not Applicable | |
| Storage | NA - Not Applicable | |

Total - Off-site Disposals

| |
|--|
| |
|--|

Off-site Transfers (excluding Tailings and Waste Rock)

Off-site Transfers for Treatment Prior to Final Disposal

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------------------------------|---------------------------|-------------------|
| Physical Treatment | NA - Not Applicable | |
| Chemical Treatment | O - Engineering Estimates | 0.389 |
| Biological Treatment | NA - Not Applicable | |
| Incineration / Thermal | NA - Not Applicable | |
| Municipal Sewage Treatment Plant | O - Engineering Estimates | 0.117 |

Total - Treatment Prior to Final Disposal

0.506

Total Quantity Disposed (All Media)

0.506

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Chemical Treatment

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.389

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------|-------------------|--------------------------------------|
| Detox Environmental Ltd. | 0.389 | 322 Bennett, Bowmanville, ON, Canada |

Total Assigned (must equal total reported)

0.389

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

Municipal Sewage Treatment Plant

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

0.117

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|--------------------------------------|-------------------|---|
| Highland Creek Water Treatment Plant | 0.117 | 1160 Highland Creek W., Toronto, ON, Canada |

Total Assigned (must equal total reported)

0.117

Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels, Other (specify in disposals comment field)

Comments? (Disposals)

more enig solution disposed off in 2014

Recycling

Reasons Why Substance Was Recycled

Select one or more reasons. *

Contaminated materials

Off-site Transfers for Recycling

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

Off-site Transfers

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------------------|---------------------|-------------------|
| Energy Recovery | NA - Not Applicable | |
| Recovery of Solvents | NA - Not Applicable | |

| | | |
|---|---------------------|--|
| Recovery of Organic Substances (not solvents) | NA - Not Applicable | |
|---|---------------------|--|

| | | |
|--|---------------------|--|
| Recovery of Metals and Metal Compounds | NA - Not Applicable | |
|--|---------------------|--|

| | | |
|--|---------------------------|--------|
| Recovery of Inorganic Materials (not metals) | O - Engineering Estimates | 23.360 |
|--|---------------------------|--------|

| | | |
|-----------------------------|---------------------|--|
| Recovery of Acids and Bases | NA - Not Applicable | |
|-----------------------------|---------------------|--|

| | | |
|-----------------------|---------------------|--|
| Recovery of Catalysts | NA - Not Applicable | |
|-----------------------|---------------------|--|

| | | |
|--|---------------------|--|
| Recovery of Pollution Abatement Residues | NA - Not Applicable | |
|--|---------------------|--|

| | | |
|--------------------------------|---------------------|--|
| Refining of Re-use of Used Oil | NA - Not Applicable | |
|--------------------------------|---------------------|--|

| | | |
|-------|---------------------|--|
| Other | NA - Not Applicable | |
|-------|---------------------|--|

Total Quantity Recycled

| |
|--------|
| 23.360 |
|--------|

Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

Basis of Estimate for Off-sites

Enter breakdown values for

| |
|--|
| Recovery of Inorganic Materials (not metals) |
|--|

Basis of Estimate

| |
|---------------------------|
| O - Engineering Estimates |
|---------------------------|

Quantity (Tonnes)

23.360

Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|----------------|-------------------|---|
| Micronutrients | 23.360 | 1550 Research Way, Indianapolis, IN, United States |

Total Assigned (must equal total reported)

23.360

Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons *

Other (specify in recycling comments field)

Comments? (Recycling)

Average g/l of copper in alkaline etchant is lower which suggest that spent etchant was more diluted with fresh etchant.

Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Enters the facility (Use)

Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 40.74 | 39.408 | 2013 | 1.332 | 3.38 |

Creation

Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Contained in Product

Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same, Increase in production levels

(please specify)

Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total Releases to Air

Total Releases to Air

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 16.79 | 17.242 | 2013 | -0.452 | -2.62 |

Total Releases to Water

Total Releases to Water

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Releases to Land

Total Releases to Land

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same

(please specify)

Comparison Report: Disposals On-site, Off-site and Tailings and Waste Rock

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

Total On-site Disposals

Total On-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposals

Total Off-site Disposals

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site transfer for treatment Prior to Final Disposal

Total Off-site transfer for treatment Prior to Final Disposal

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| | | | | |

| | | | | |
|-------|-------|------|-------|-------|
| 0.506 | 0.388 | 2013 | 0.118 | 30.41 |
|-------|-------|------|-------|-------|

Total On-site Disposal of Tailings and Waste Rock

Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Total Off-site Disposal of Tailings and Waste Rock

Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0 | 0 | 2013 | 0 | |

Reasons for Change

Reasons for Change

Reason(s) for Change

Increase in production levels, Other

(please specify)

more enig solution was disposed

(please specify): more enig solution was disposed

Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

Total off-site Transfers for Recycling

Total off-site Transfers for Recycling

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 23.360 | 21.780 | 2013 | 1.580 | 7.25 |

Reasons for Change

Reasons for Change

Reason(s) for Change

No reasons - quantities approximately the same, Increase in production levels

(please specify)

Post Plan Substance Details

50-00-0, Formaldehyde

50-00-0, Formaldehyde

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

DDi intends to conduct further research to identify new reduction options

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 Target

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 targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

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: **

Reductions due to additional actions taken **

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

Amendments

Amendments

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 **

7647-01-0, Hydrochloric acid

7647-01-0, Hydrochloric acid

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

DDi intends to reduce HCL but additional research and testing is required prior to the commitment.

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 Target

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 targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

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: **

Reductions due to additional actions taken **

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

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.

No Amount

tonnes

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.

No Amount tonnes

The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount tonnes

The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

Amendments

Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? *

No

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 **

7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

DDi intends to reduce H2SO4 but additional research and testing is required prior to the commitment

Use Targets

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

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

What is the targeted timeframe for this reduction? *

| No timeline target | years |
|-------------------------------------|----------------------|
| <input checked="" type="checkbox"/> | or |
| | <input type="text"/> |

Description of Target

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 | |
| | <input type="text"/> | <input type="text"/> |

What is the targeted timeframe for this reduction? *

| No timeline target | years |
|-------------------------------------|----------------------|
| <input checked="" type="checkbox"/> | or |
| | <input type="text"/> |

Description of targets

Actions

Additional Actions

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: **

Reductions due to additional actions taken **

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

 tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

 tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount

 tonnes

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.

No Amount

 tonnes

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.

No Amount

 tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to the additional actions.

reporting period that resulted due to additional actions.

No Amount

tonnes

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.

No Amount

tonnes

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.

No Amount

tonnes

The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

Amendments

Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? *

No

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 **

7697-37-2, Nitric acid

7697-37-2, Nitric acid

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

Viasystems intends to reduce HNO3 but additional research and testing is required prior to any commitment

Use Targets

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

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

What is the targeted timeframe for this reduction? *

| No timeline target | years |
|-------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> | or <input type="text"/> |

Description of Target

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 | <input type="text"/> |

What is the targeted timeframe for this reduction? *

| No timeline target | years |
|-------------------------------------|-------------------------|
| <input checked="" type="checkbox"/> | or <input type="text"/> |

Description of targets

Options

Toxic Reduction Options Implemented

Equipment or process modifications

Changed to aqueous cleaners

Activity

Changed to aqueous cleaners

Describe the steps that were taken in the reporting period to implement the toxic reduction option: *

Cataogy 3: Elimiante 15A cleaner. Continued to work with Nitric acid free cleaners on plating lines.

Provide a public summary of the description of the steps: *

Continued to work with Nitric acid free cleaners on plating lines.

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: *

Work still required for IS preclean line

Provide a public summary of the comparison of the steps: *

additional work required on outer layer panel precleaning chemicals

Reductions due to Options Implemented

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:

No Amount

tonnes

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 steps described:

No Amount

tonnes

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 steps described:

No Amount

tonnes

The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

Will the timelines in the current version of the plan will be met. *

Comments

On-site reuse, recycling or recovery

Instituted recirculation within a process

Activity

Describe the steps that were taken in the reporting period to implement the toxic reduction option: *

Provide a public summary of the description of the steps: *

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: *

Project is behind. No Capex established

Provide a public summary of the comparison of the steps: *

Progress is behind schedule. Pilot Testing has not started in 2015

Reductions due to Options Implemented

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to steps described:

No Amount tonnes

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 steps described:

No Amount tonnes

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 steps described:

No Amount

tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

Will the timelines in the current version of the plan will be met. *

Comments

Improved inventory management or purchasing techniques

Initiated testing of outdated material

Activity

Describe the steps that were taken in the reporting period to implement the toxic reduction option: *

Provide a public summary of the description of the steps: *

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: *

Provide a public summary of the comparison of the steps: *

Reductions due to Options Implemented

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to steps described:

No Amount tonnes

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 steps described:

No Amount tonnes

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 steps described:

No Amount tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

Will the timelines in the current version of the plan will be met. *

No

Comments

Extending Ni Rack stripper life has been problematic. Additional time/work required to ensure quality as we have reverted back to more frequent D&R.

Good operator practice or training

Other

Activity

Other

Describe the steps that were taken in the reporting period to implement the toxic reduction option: *

Catagory 7: Vary Sn Plating thickness per product design to reduce scrap and sn stripper consumption

Provide a public summary of the description of the steps: *

Vary Sn Plating thickness per product design to reduce scrap and sn stripper consumption

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: *

LPA and plating continual improvement projects occurred. Need to add TRA tasks into CI projects

Provide a public summary of the comparison of the steps: *

LPA and plating continual improvement projects occurred and are ongoing

Reductions due to Options Implemented

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to steps described:

No Amount

tonnes

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 steps described:

No Amount

tonnes

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 steps described:

No Amount

tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

Will the timelines in the current version of the plan will be met. *

Comments

Actions

Additional Actions

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: **

Reductions due to additional actions taken **

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

Amendments

Amendments

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 - 06, Copper (and its compounds)

NA - 06, Copper (and its compounds)

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

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

or

What is the targeted timeframe for this reduction? *

No timeline target

years

or

Description of Target

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 targets

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

No

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: **

Reductions due to additional actions taken **

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

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.

No Amount

tonnes

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.

No Amount

tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount

tonnes

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.

No Amount

tonnes

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.

No Amount

tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

Amendments

Amendments

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 - 08, Lead (and its compounds)

NA - 08, Lead (and its compounds)

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

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="90.83"/> | <input type="text" value="kg"/> |

What is the targeted timeframe for this reduction? *

| No timeline target | | years |
|--------------------------|----|--------------------------------|
| <input type="checkbox"/> | or | <input type="text" value="2"/> |

Description of Target

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 targets

Options

Toxic Reduction Options Implemented

Equipment or process modifications

Modified equipment, layout or piping

Activity

Describe the steps that were taken in the reporting period to implement the toxic reduction option: *

Provide a public summary of the description of the steps: *

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: *

Provide a public summary of the comparison of the steps: *

Reductions due to Options Implemented

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

kg

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

kg

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the steps described:

No Amount

kg

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

kg

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

kg

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to steps described:

No Amount

kg

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 steps described:

No Amount

kg

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 steps described:

No Amount

kg

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the steps described:

No Amount

kg

Will the timelines in the current version of the plan will be met. *

No

Comments

Original plan was Q3 2014. Working with CI team in 2015. New timeline TBD, but Lead consumption has dropped 25% in 2014

Actions

Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? *

Yes

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: **

Sales discusses new and existing part numbers with customer base to see if non solder finishes can be used.

Provide a public summary of the description of the additional action taken: **

Sales discusses new and existing part numbers with customer base to see if non solder finishes can be used, such as ENIG.

Reductions due to additional actions taken **

The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount kg

The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount kg

The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.

No Amount kg

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.

No Amount kg

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.

No Amount kg

The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount kg

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.

No Amount kg

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.

No Amount kg

The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.

No Amount kg

Amendments

Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? *

No

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 - 16, Ammonia (total)

NA - 16, Ammonia (total)

Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

Objectives

Objectives in plan: *

Viasystems intends to reduce NH3 but additional research and testing is required prior to stating any commitment

Use Targets

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

| No quantity target | | Quantity | Unit |
|-------------------------------------|----|--|--|
| <input checked="" type="checkbox"/> | or | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |

What is the targeted timeframe for this reduction? *

| No timeline target | | years |
|-------------------------------------|----|--|
| <input checked="" type="checkbox"/> | or | <input style="width: 90%;" type="text"/> |

Description of Target

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 | <input style="width: 90%;" type="text"/> | <input style="width: 90%;" type="text"/> |

What is the targeted timeframe for this reduction? *

| No timeline target | | years |
|-------------------------------------|----|--|
| <input checked="" type="checkbox"/> | or | <input style="width: 90%;" type="text"/> |

Description of targets

Options

Toxic Reduction Options Implemented

Good operator practice or training

Other

Activity

Describe the steps that were taken in the reporting period to implement the toxic reduction option: *

Provide a public summary of the description of the steps: *

Provide a comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period: *

Provide a public summary of the comparison of the steps: *

Reductions due to Options Implemented

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to steps described:

No Amount

tonnes

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 steps described:

No Amount

tonnes

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 steps described:

No Amount

tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the steps described:

No Amount

tonnes

Will the timelines in the current version of the plan will be met. *

Comments

Actions

Additional Actions

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: **

Reductions due to additional actions taken **

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount tonnes

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.

No Amount tonnes

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.

No Amount

tonnes

The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

Amendments

Amendments

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 **