

- [Skip to content](#)
- [Basic HTML Version](#)

DoNothing

## Common menu bar

- [Canada.gc.ca](#)
- [Services](#)
- [Departments](#)
- [Français](#)

[National Pollutant Release Inventory \(NPRI\) and Partners](#)

## Site navigation bar

- [Home](#)
- [Submission Management](#)
  - [NPRI Reporting Dashboard](#)
  - [Waterbody PickList](#)
  - [Offsite PickList](#)
- [Help](#)
  - [Toggle In-Context Help](#)
  - [Contact NPRI](#)
  - [Report a Problem](#)
  - [Program Information](#)
  - [SWIM Guidance](#)
  - [ONTRA Guidance](#)
- [My Profile:Jeffrey Sugar](#)
  - Role:Administration
- [Logout](#)
- [Ec.gc.ca](#)

## Breadcrumb trail

1. [SWIM](#)
2. [2013](#)
3. [Vacuum Metallizing Ltd.](#)
4. [VACUUM METALLIZING LIMITED \(Update 2\)](#)
5. Report Preview

# Report Preview

## Report Details

Report Year  
2013

Report Type:  
NPRI,ON MOE TRA

Report Status:  
Update 2 - Ready to Submit

Modified Date/Time:  
08/06/2015 10:40 AM

Report Update Comments:  
File missing exit record for xylene and remove contaminant which was below the minimum reporting threshold.

## Company and Facility Details

Company Name:  
Vacuum Metallizing Ltd.

Business Number:  
105468771

Mailing Address:  
Address Line 1: 30 Dovedale Court  
City, Province/Territory, Postal Code: Toronto Ontario M5M4G2  
Country: Canada

Facility Name:

## VACUUM METALLIZING LIMITED

NAICS Code:  
332810  
NPRI ID:  
7102  
ON Reg 127/01 ID:  
179901  
Physical Address:  
Address Line 1: 30 Dovedale Court  
City, Province/Territory, Postal Code: Scarborough Ontario M1S5A7  
Country: Canada  
Latitude: 43.79580  
Longitude: -79.24590  
UTM Zone: 17  
UTM Easting: 641083  
UTM Northing: 4850698

### Permits

Number or Permit Number:  
3538-75DKEM  
Government Department, Agency, or Program Name:  
Ministry of the Environment of Ontario

### Contacts Details

Contact Type  
Technical Contact, Certifying Official, Company Coordinator, Highest Ranking Employee, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan, Public Contact  
Name:  
Jeffrey Sugar  
Position:  
President  
Telephone:  
4167543377  
Fax:  
4167548077  
Email:  
jsugar@vacuummetallizing.ca

### General Information

Number of employees:  
24  
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:  
None of the above  
Activities Relevant to Reporting of Dioxins, Furans and Hexachlorobenzene:  
None of the above  
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):  
Wood preservation using creosote: No  
Is this the first time the facility is reporting to the NPRI (under current or past ownership):  
No  
Is the facility controlled by another Canadian company or companies:  
No  
Did the facility report under other environmental regulations or permits:  
Yes  
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):  
Yes  
Was the facility shut down for more than one week during the year:  
Yes  
Operating Schedule - Days of the Week:  
Mon, Tue, Wed, Thu, Fri  
Usual Number of Operating Hours per day:  
9  
Usual Daily Start Time (24h) (hh:mm):  
07:00

### Shutdown Periods:

From 2013-07-27 To 2013-08-09  
Annual 2 week summer shutdown

## Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
78-93-3	Methyl ethyl ketone	1.5600	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	2.3100	N/A	N/A	N/A	tonnes
108-10-1	Methyl isobutyl ketone	2.3100	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	24.5530	11.2890	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	N/A	N/A	N/A	N/A	tonnes

## Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
78-93-3	Methyl ethyl ketone	Yes	Yes		No
108-10-1	Methyl isobutyl ketone	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
1330-20-7	Xylene (all isomers)	No	No		No

## TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
1330-20-7	Xylene (all isomers)	The substance did not meet the criteria to provide information to NPRI	Use of the substance fell below the reporting threshold in 2013.	Based on mass balance quantification,

## General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all 1 tonne or more of a Part 5 Substance (Speciated media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
78-93-3	Methyl ethyl ketone	Yes	No	No
108-10-1	Methyl isobutyl ketone	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
1330-20-7	Xylene (all isomers)	No	No	No

## General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
78-93-3	Methyl ethyl ketone	No	No	No
108-10-1	Methyl isobutyl ketone	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)	No	No	No

## General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
78-93-3	Methyl ethyl ketone			As a physical or chemical processing aid
108-10-1	Methyl isobutyl ketone			As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)			As a physical or chemical processing aid

## Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
1330-20-7	Xylene (all isomers)	Added	To create an exit record

## TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
78-93-3	Methyl ethyl ketone	Use	1.56 tonnes	No
78-93-3	Methyl ethyl ketone	Creation	0 tonnes	No
78-93-3	Methyl ethyl ketone	Contained in Product	0 tonnes	No
108-10-1	Methyl isobutyl ketone	Use	2.31 tonnes	No
108-10-1	Methyl isobutyl ketone	Creation	0 tonnes	No
108-10-1	Methyl isobutyl ketone	Contained in Product	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	24.553 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		

## TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
NA - 31	Heptane (all isomers)	Use	1.562 tonnes
64742-48-9	Hydrotreated heavy naphtha	Use	0.799 tonnes
64742-48-9	Hydrotreated heavy naphtha	Creation	0.0 tonnes
78-93-3	Methyl ethyl ketone	Use	1.560 tonnes
108-10-1	Methyl isobutyl ketone	Use	2.310 tonnes
64742-89-8	Solvent naphtha light aliphatic	Use	2.478 tonnes
8032-32-4	VM and P naphtha	Use	2.580 tonnes

## TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	11.289 tonnes
Creation	0.0 tonnes

## TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
78-93-3	Methyl ethyl ketone					No
108-10-1	Methyl isobutyl ketone					No
NA - M16	Volatile Organic Compounds (VOCs)					No

## On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
78-93-3	Methyl ethyl ketone	Stack or Point Releases	C - Mass Balance		1.56 tonnes
108-10-1	Methyl isobutyl ketone	Stack or Point Releases	C - Mass Balance		2.31 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		24.553 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		24.553 tonnes

## On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
78-93-3	Methyl ethyl ketone	1.56 tonnes
108-10-1	Methyl isobutyl ketone	2.31 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	24.553 tonnes

### On-site Releases - Releases to air - VOC Breakdown List

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	NA - 31	Heptane (all isomers)	1.562 tonnes
Other Sources - Speciated VOCs	64742-48-9	Hydrotreated heavy naphtha	0.799 tonnes
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	1.560 tonnes
Other Sources - Speciated VOCs	108-10-1	Methyl isobutyl ketone	2.310 tonnes
Other Sources - Speciated VOCs	64742-89-8	Solvent naphtha light aliphatic	2.478 tonnes
Other Sources - Speciated VOCs	8032-32-4	VM and P naphtha	2.580 tonnes

### On-site Releases - Total

CAS RN	Substance Name	Total releases
78-93-3	Methyl ethyl ketone	1.56 tonnes
108-10-1	Methyl isobutyl ketone	2.31 tonnes

### On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
78-93-3	Methyl ethyl ketone	27	29	21	23
108-10-1	Methyl isobutyl ketone	27	29	21	23

### On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M16	Volatile Organic Compounds (VOCs)	9	9	9	9	10	10	8	5	8	8	8	7

### On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
108-10-1	Methyl isobutyl ketone	Changes in production levels Other (specify in On-site Releases comment field)	Substitution of MIBK for alternative solvent when thinning paints
1330-20-7	Xylene (all isomers)	Changes in production levels	
78-93-3	Methyl ethyl ketone	Changes in production levels Other (specify in On-site Releases comment field)	Substitution of alternate solvent for MEK as thinner in paint formulations.
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels Other (specify in On-site Releases comment field)	Changes in paint formulations

### Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
108-10-1	Methyl isobutyl ketone		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone		No significant change (i.e. < 10%) or no change	

### Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
108-10-1	Methyl isobutyl ketone		No significant change (i.e. < 10%) or no change	
1330-20-7	Xylene (all isomers)		No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone		No significant change (i.e. < 10%) or no change	

### Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 31	Heptane (all isomers)	Yes	Enters the facility (Use)	1.562 tonnes	0.994 tonnes	2012	0.568	57.14
64742-48-9	Hydrotreated heavy naphtha	Yes	Enters the facility (Use)	0.799 tonnes	2.093 tonnes	2012	-1.294	-61.83
64742-48-9	Hydrotreated heavy naphtha	Yes	Creation	0.0 tonnes	0.0 tonnes	2012	0.0	
78-93-3	Methyl ethyl ketone	No	Enters the facility (Use)	1.56 tonnes	3.284 tonnes	2012	-1.724	-52.50
78-93-3	Methyl ethyl ketone	No	Creation	0 tonnes	0 tonnes	2012	0	
78-93-3	Methyl ethyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2012	0	
78-93-3	Methyl ethyl ketone	Yes	Enters the facility (Use)	1.560 tonnes	3.284 tonnes	2012	-1.724	-52.50
108-10-1	Methyl isobutyl ketone	No	Enters the facility (Use)	2.31 tonnes	1.816 tonnes	2012	0.494	27.20
108-10-1	Methyl isobutyl ketone	No	Creation	0 tonnes	0 tonnes	2012	0	
108-10-1	Methyl isobutyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2012	0	
108-10-1	Methyl isobutyl ketone	Yes	Enters the facility (Use)	2.310 tonnes	1.816 tonnes	2012	0.494	27.20
64742-89-8	Solvent naphtha light aliphatic	Yes	Enters the facility (Use)	2.478 tonnes	3.096 tonnes	2012	-0.618	-19.96
8032-32-4	VM and P naphtha	Yes	Enters the facility (Use)	2.580 tonnes	1.781 tonnes	2012	0.799	44.86

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
78-93-3	Methyl ethyl ketone	Other	Reduced use of MEK as a paint thinner
108-10-1	Methyl isobutyl ketone	Increase in production levels Other	Substitution of solvents as thinners in paint formulations
NA - M16	Volatile Organic Compounds (VOCs)	Other	Changed paint suppliers resulting in modified paint formulations; changes in the solvents used to thin paints; changes (both increase and decrease) in production volumes for specific paints

### Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 31	Heptane (all isomers)	Yes	Total Releases to Air	1.562 tonnes	0.994 tonnes	2012	0.568	57.14
64742-48-9	Hydrotreated heavy naphtha	Yes	Total Releases to Air	0.799 tonnes	2.093 tonnes	2012	-1.294	-61.83
78-93-3	Methyl ethyl ketone	No	Total Releases to Air	1.56 tonnes	3.284 tonnes	2012	-1.724	-52.50
78-93-3	Methyl ethyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2012	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2012	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to All Media	0 tonnes				
78-93-3	Methyl ethyl ketone	Yes	Total Releases to Air	1.560 tonnes	3.284 tonnes	2012	-1.724	-52.50
108-10-1	Methyl isobutyl ketone	No	Total Releases to Air	2.31 tonnes	1.816 tonnes	2012	0.494	27.20
108-10-1	Methyl isobutyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2012	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
108-10-1	Methyl isobutyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2012	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to All Media	0 tonnes				
108-10-1	Methyl isobutyl ketone	Yes	Total Releases to Air	2.310 tonnes	1.816 tonnes	2012	0.494	27.20
64742-89-8	Solvent naphtha light aliphatic	Yes	Total Releases to Air	2.478 tonnes	3.096 tonnes	2012	-0.618	-19.96
8032-32-4	VM and P naphtha	Yes	Total Releases to Air	2.580 tonnes	1.781 tonnes	2012	0.799	44.86

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
78-93-3	Methyl ethyl ketone	Other	Reduced use of MEK as a paint thinner
108-10-1	Methyl isobutyl ketone	Increase in production levels Other	Substitution of solvents used as thinners in paint formulations
NA - M16	Volatile Organic Compounds (VOCs)	Other	Changed paint suppliers resulting in modified paint formulations; changes in the solvents used to thin paints; changes (both increase and decrease) in production volumes for specific paints

## Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was required by a P2 Planning Notice published under the Canadian Environmental Protection Act, 1999? 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?

Water conservation

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

Plans for water conservation have been implemented and City of Toronto no longer requires the facility to file or update its P2 plan.

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

No

## Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
64742-48-9	Hydrotreated heavy naphtha	Reduce the use of toxic substances
78-93-3	Methyl ethyl ketone	Plan provides only a general intent to reduce the use of toxic substances but does not quantify the amount of reductions or provide a timetable for said reductions.
108-10-1	Methyl isobutyl ketone	Reduce the use of MIBK.
64742-89-8	Solvent naphtha light aliphatic	Reduce the use of mineral spirits
8032-32-4	VM & P naphtha	Reduce the use of toxic substances at the facility

## Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
64742-48-9	Hydrotreated heavy naphtha	156 kg	0.4	Recycle and reuse mineral spirits used to wash out spray guns and paint lines. This target is for reduction of all mineral spirits used for this purpose. In 2012, company purchased only 1 drum of this substance.
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
108-10-1	Methyl isobutyl ketone	No quantity target	No timeline target	No quantitative target or timetable is specified for reducing MIBK.
64742-89-8	Solvent naphtha light aliphatic	990 kg	0.4	Reduction in the amount of mineral spirits used to rinse out paint guns and paint lines by reusing rinse for the same purpose or using rinse as a formulation ingredient in paints. Target amount also includes mineral spirits CAS 8052-41-3 which was used for this same purpose and is interchangeable with the subject toxic substance.

CAS RN	Substance Name	Quantity	Years	Description of Target
8032-32-4	VM & P naphtha	No quantity target	No timeline target	

**Progress on TRA Plan - Creation Targets**

CAS RN	Substance Name	Quantity	Years	Description of Target
64742-48-9	Hydrotreated heavy naphtha	No quantity target	No timeline target	Substance not created at the facility
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	Toxic substance is not created by the facility
108-10-1	Methyl isobutyl ketone	No quantity target	No timeline target	MIBK is not created at the facility.
64742-89-8	Solvent naphtha light aliphatic	No quantity target	No timeline target	
8032-32-4	VM & P naphtha	No quantity target	No timeline target	

**Progress on TRA Plan - Toxic Reduction Options Implemented**

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	Solvent used for rinsing spray guns and lines was reintroduced as thinners into paint mixes	Valve placed on paint lines to allow solvent wash to be recirculated and be redirected from from spray guns into pails. Wash solvent retained and used to reduce same paints in next production run.	Same	Valve placed on paint lines to allow solvent wash to be recirculated and be redirected from from spray guns into pails. Wash solvent retained and used to reduce same paints in next production run.
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	Valves and plumbing added to paint lines to allow paint wash to be recirculated and captured rather than be sprayed to waste.	See above	Same	See above

**Progress on TRA Plan - Reductions due to Options Implemented - On-site reuse, recycling or recovery**

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	0.156 tonnes
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	0.156 tonnes
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Instituted recirculation within a process	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the steps described:	0.990 tonnes
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the steps described:	0.990 tonnes
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-89-8	Solvent naphtha light aliphatic	Instituted recirculation within a process	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the steps described:	No Amount

**Progress on TRA Plan - Additional Actions**

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
64742-48-9	Hydrotreated heavy naphtha	No		
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		
64742-89-8	Solvent naphtha light aliphatic	No		
8032-32-4	VM & P naphtha	No		

**Progress on TRA Plan - Reductions due to additional actions taken**

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
64742-48-9	Hydrotreated heavy naphtha	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
78-93-3	Methyl ethyl ketone	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
108-10-1	Methyl isobutyl ketone	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-10-1	Methyl isobutyl ketone	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
64742-89-8	Solvent naphtha light aliphatic	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>use</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>creation</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>contained in product</b> at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>release to air</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>release to water</b> of the substance at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in <b>release to land</b> of the substance at the facility during the reporting period that resulted due to additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>disposed on-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>disposed off-site</b> (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
8032-32-4	VM & P naphtha	The amount of reduction in the substance <b>recycled off-site</b> at the facility during the reporting period that resulted due to the additional actions.	

**Progress on TRA Plan - Amendments**

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
64742-48-9	Hydrotreated heavy naphtha	No		
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
64742-89-8	Solvent naphtha light aliphatic	No		
8032-32-4	VM & P naphtha	No		

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