

National Pollutant Release Inventory (NPRI) and



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Report Preview

Report Details

Report Year	2016
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	31/05/2017 3:06 PM

Company and Facility Details

Company Name:	Toyota Boshoku Canada Inc.
Mailing Address:	Address Line 1: 45 Southfield Drive City, Province/Territory, Postal Code: Elmira Ontario N0B2S0 Country: Canada
Facility Name:	TB - Elmira
NAICS Code:	332999
NPRI ID:	11074
Physical Address:	Address Line 1: 45 Southfield Drive Drive City, Province/Territory, Postal Code: Elmira Ontario N3B3L6 Country: Canada Latitude: 43.36600 Longitude: -80.17450 UTM Zone: 17 UTM Easting: 535870 UTM Northing: 4825600

Contacts Details

Contact Type	Technical Contact
Name:	Jason Psutka
Position:	Plant Engineering and Environmental Officer

Contact Type	Certifying Official
Name:	Jason Psutka
Position:	Plant Engineering and Environmental Officer

Contact Type	Highest Ranking Employee
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Name: Ulrich Borths

Position: Plant Manager

Mailing Address: Address Line 1: 45 Southfield Drive
City, Province/Territory, Postal Code: Elmira Ontario N3B3L6
Country: Canada

Contact Type: Person who prepared the report

Name: Lloyd Hipel

Position: Project Manager

Mailing Address: Delivery Mode: GeneralDelivery
Address Line 1: 1 Union Street
City, Province/Territory, Postal Code: Elmira Ontario N3B 3J9
Country: Canada

General Information

Number of employees: 540

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: None of the above

Activities Relevant to Reporting 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: No

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: No

Operating Schedule - Days of the Week: Mon, Tue, Wed, Thu, Fri

Usual Number of Operating Hours per day: 19

Usual Daily Start Time (24h) (hh:mm): 07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
110-82-7	Cyclohexane	11.7310	N/A	N/A	N/A	tonnes
78-93-3	Methyl ethyl ketone	1.9870	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.3470	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	24.9860	11.6610	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
110-82-7	Cyclohexane	Yes	Yes		Yes
78-93-3	Methyl ethyl ketone	Yes	Yes		No

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	No		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No

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 media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
110-82-7	Cyclohexane	Yes	No	No
78-93-3	Methyl ethyl ketone	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes

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
110-82-7	Cyclohexane	No	No	No
78-93-3	Methyl ethyl ketone	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
110-82-7	Cyclohexane		As a reactant	
78-93-3	Methyl ethyl ketone			As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
110-82-7	Cyclohexane	Added	Exceeded the 10,000 kg reporting threshold for part 1 substances.

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
110-82-7	Cyclohexane	Use	11.731 tonnes	Yes
110-82-7	Cyclohexane	Creation	0 tonnes	No
110-82-7	Cyclohexane	Contained in Product	0 tonnes	No
78-93-3	Methyl ethyl ketone	Use	1.987 tonnes	Yes
78-93-3	Methyl ethyl ketone	Creation	0 tonnes	No
78-93-3	Methyl ethyl ketone	Contained in Product	0 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	0.347 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained in Product		
NA - M16	Volatile Organic Compounds (VOCs)	Use	24.986 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation		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
141-78-6	Ethyl acetate	Use	6.043 tonnes
NA - 31	Heptane (all isomers)	Use	2.594 tonnes
64742-95-6	Light aromatic solvent naphtha	Use	1.101 tonnes
78-93-3	Methyl ethyl ketone	Use	1.923 tonnes
78-93-3	Methyl ethyl ketone	Creation	0 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	11.661 tonnes
Creation	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
110-82-7	Cyclohexane					No
78-93-3	Methyl ethyl ketone					No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					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
110-82-7	Cyclohexane	Stack or Point Releases	O - Engineering Estimates		11.731 tonnes
78-93-3	Methyl ethyl ketone	Stack or Point Releases	O - Engineering Estimates		1.987 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	O - Engineering Estimates		0.347 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	O - Engineering Estimates		24.986 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		24.986 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
110-82-7	Cyclohexane	11.731 tonnes
78-93-3	Methyl ethyl ketone	1.987 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.347 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	24.986 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	141-78-6	Ethyl acetate	6.043 tonnes
Other Sources - Speciated VOCs	NA - 31	Heptane (all isomers)	2.594 tonnes
Other Sources - Speciated VOCs	64742-95-6	Light aromatic solvent naphtha	1.101 tonnes
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	1.923 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
110-82-7	Cyclohexane	11.731 tonnes
78-93-3	Methyl ethyl ketone	1.987 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
110-82-7	Cyclohexane				
78-93-3	Methyl ethyl ketone				

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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns												
NA - M16	Volatile Organic Compounds (VOCs)												

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
110-82-7	Cyclohexane	Not applicable (first year reporting this substance)	
78-93-3	Methyl ethyl ketone	Changes in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Changes in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
110-82-7	Cyclohexane		Not applicable (first year reporting this substance)	
78-93-3	Methyl ethyl ketone		Other (specify in On-site Releases comment field)	Not disposed of.

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
110-82-7	Cyclohexane		Not applicable (first year reporting this substance)	
78-93-3	Methyl ethyl ketone		Other (specify in recycling comments field)	Not recycled offsite.

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
141-78-6	Ethyl acetate	Yes	Enters the facility (Use)	6.043 tonnes	1.634 tonnes	2015	4.409	269.83
78-93-3	Methyl ethyl ketone	No	Enters the facility (Use)	1.987 tonnes	1.391 tonnes	2015	0.596	42.85
78-93-3	Methyl ethyl ketone	No	Creation	0 tonnes	0 tonnes	2015	0	
78-93-3	Methyl ethyl ketone	No	Contained in Product	0 tonnes	0 tonnes	2015	0	
78-93-3	Methyl ethyl ketone	Yes	Enters the facility (Use)	1.923 tonnes	1.391 tonnes	2015	0.532	38.25
78-93-3	Methyl ethyl ketone	Yes	Creation	0 tonnes	0 tonnes	2015	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2015	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	0.347 tonnes	0.227 tonnes	2015	0.120	52.86

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	Increase in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Increase in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
141-78-6	Ethyl acetate	Yes	Total Releases to Air	6.043 tonnes	1.634 tonnes	2015	4.409	269.83
78-93-3	Methyl ethyl ketone	No	Total Releases to Air	1.987 tonnes	1.391 tonnes	2015	0.596	42.85
78-93-3	Methyl ethyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to All Media	0 tonnes	0.88 tonnes	2014	-0.88	-100
78-93-3	Methyl ethyl ketone	Yes	Total Releases to Air	1.923 tonnes	1.391 tonnes	2015	0.532	38.25
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Air	0.347 tonnes	0.227 tonnes	2015	0.120	52.86
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2015	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2015	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	

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	Increase in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Increase in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
141-78-6	Ethyl acetate	Toyota Boshoku intends to reduced its use of ethyl acetate through process modification, leak prevention, on-site reuse, improved inventory techniques, and improved operating practices.
78-93-3	Methyl ethyl ketone	Toyota Boshoku Elmira intends to reduce the use of MEK through spill and leak prevention, on-site recycling, and improved inventory techniques.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Toyota Boshoku Elmira intends to reduce the use of PM2.5 through product design, equipment modification, and training and improved operating practices.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
141-78-6	Ethyl acetate	No quantity target	No timeline target	
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
141-78-6	Ethyl acetate	No quantity target	No timeline target	
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	

Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Public summary of the description of the steps	Public summary of the comparison of the steps
141-78-6	Ethyl acetate	Modified equipment, layout or piping	The equipment was reviewed and it was determined that with the appropriate changes, solvent could be introduced closer to the gun to reduce waste.	The equipment was reviewed and it was determined that with the appropriate changes, solvent could be introduced closer to the gun to reduce waste.
141-78-6	Ethyl acetate	Instituted procedures to ensure that materials do not stay in inventory beyond shelf-life	The procedure was reviewed and there is a plan to change the procedure to ensure the collection pail is empty before shutdowns	The procedure was reviewed and there is a plan to change the procedure to ensure the collection pail is empty before shutdowns
141-78-6	Ethyl acetate	Instituted recirculation within a process	The equipment was reviewed and it was determined that reuse can occur by pouring the samples back into the glue resevoir.	The equipment was reviewed and it was determined that reuse can occur by pouring the samples back into the glue resevoir.
141-78-6	Ethyl acetate	Improved procedures for loading, unloading and transfer operations	The process was reviewed and the countermeasure implemented. This item is complete.	The process was reviewed and the countermeasure implemented. This item is complete.
141-78-6	Ethyl acetate	Improved maintenance scheduling, record keeping or procedures	Incremental improvements have been made to improve robot overspray.	Incremental improvements have been made to improve robot overspray.
78-93-3	Methyl ethyl ketone	Other	A review of how we handle empty glue pails was undertaken and it was determined that this countermeasure is not necessary because common practice is to drain the near-empty container in to the next full one.	A review of how we handle empty glue pails was undertaken and it was determined that this countermeasure is not necessary because common practice is to drain the near-empty container in to the next full one.

CAS RN	Substance Name	Activity	Public summary of the description of the steps	Public summary of the comparison of the steps
78-93-3	Methyl ethyl ketone	Other	A lid was added to the clean-out collection bucket to reduce the evaporation rate of the cleaning chemical, thus ensure reduced emissions to air.	A lid was added to the clean-out collection bucket to reduce the evaporation rate of the cleaning chemical, thus ensure reduced emissions to air.
78-93-3	Methyl ethyl ketone	Other	A review of the operating procedure governing the use of MEK was undertaken.	A review of the operating procedure governing the use of MEK was undertaken.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Modified equipment, layout or piping	A review of exhaust requirements was started, but process was discontinued.	A review of exhaust requirements was started, but process was discontinued.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	A drawing review and comparison to actual condition yielded a reduction in weld length.	A drawing review and comparison to actual condition yielded a reduction in weld length.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Operating procedures were reviewed and it was determined that the system will be automated to include an automatic shut off.	Operating procedures were reviewed and it was determined that the system will be automated to include an automatic shut off.

Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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Progress on TRA Plan - Reductions due to Options Implemented - Improved inventory management or purchasing techniques

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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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
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CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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Progress on TRA Plan - Reductions due to Options Implemented - Product design or reformulation

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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Progress on TRA Plan - Reductions due to Options Implemented - Spill or leak prevention

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
141-78-6	Ethyl acetate	Improved procedures for loading, unloading and transfer operations	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.006 tonnes

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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Progress on TRA Plan - Reductions due to Options Implemented - Good operator practice or training

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	0.034 tonnes
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Progress on TRA Plan - Additional Actions

CAS RN	Substance Name
141-78-6	Ethyl acetate
78-93-3	Methyl ethyl ketone
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns

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

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
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Progress on TRA Plan - Amendments

CAS RN	Substance Name
141-78-6	Ethyl acetate
78-93-3	Methyl ethyl ketone
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Toyota Boshoku Canada Inc.

Certifying Official (or authorized delegate)

Jason Psutka

Report Submitted by

Jason Psutka

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 31/05/2017, I, Ulrich Borths, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN	Substance Name
110-82-7	Cyclohexane
141-78-6	Ethyl acetate
NA - 31	Heptane (all isomers)
64742-95-6	Light aromatic solvent naphtha
78-93-3	Methyl ethyl ketone
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
NA - M16	Volatile Organic Compounds (VOCs)

Company Name

Toyota Boshoku Canada Inc.

Highest Ranking Employee

Ulrich Borths

Report Submitted by

Jason Psutka

Website address

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2016	31/05/2017	TB - Elmira	Ontario	Elmira	NPRI,ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.11.4



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