

# National Pollutant Release Inventory (NPRI) and Partners



Canada

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## Report Preview

### Report Details

Report Year	2015
Report Type:	NPRI,ON MOE TRA
Report Status:	Update 1 - Submitted
Modified Date/Time:	10/05/2016 12:00 PM
Report Update Comments:	Update to include new reportable compound 2-Methoxy-1-Methylethyl Acetate

### Company and Facility Details

Company Name:	Hitachi Construction Truck Manufacturing Ltd.
Business Number:	105555064
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 200 Woodlawn Road West City, Province/Territory, Postal Code: Guelph Ontario N1H1B6 Country: Canada
Facility Name:	Hitachi
NAICS Code:	333120
NPRI ID:	612
Physical Address:	Address Line 1: 200 Woodlawn Road West City, Province/Territory, Postal Code: Guelph Ontario N1H1B6 Country: Canada Latitude: 43.55610 Longitude: -80.29170 UTM Zone: 17 UTM Easting: 557366 UTM Northing: 4822753

### Permits

Number or Permit Number:	7817-7TWG9H
Government Department, Agency, or Program Name:	ON MOE Environmental Compliance Approval (Air)

### Contacts Details

Contact Type	Technical Contact, Certifying Official, Highest Ranking Employee
Name:	Dennis Ferraro
Position:	Manager Health Safety Environmental
Telephone:	5198265552
Fax:	5198374220
Email:	dferraro@hitachitruck.com

Contact Type	Contractor Contact, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Erik Martinez
Position:	Environmental Consultant
Telephone:	5198840510
Extension	2342
Email:	erik.martinez@ghd.com
Independent contractor/consultant company name:	GHD Limited

### General Information

Number of employees:	415
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	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:	16
Usual Daily Start Time (24h) (hh:mm):	07:00

### Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
107-21-1	Ethylene glycol	N/A	N/A	N/A	2.5070	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	0.5690	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.3920	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	34.9880	14.8570	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
107-21-1	Ethylene glycol	Yes	Yes		No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Yes	Yes		No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Yes	Yes		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
107-21-1	Ethylene glycol	No	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
107-21-1	Ethylene glycol	No	No	Yes
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
107-21-1	Ethylene glycol	For on-site use/processing	As a formulation component	Ancillary/other use
NA - M16	Volatile Organic Compounds (VOCs)			

### TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
107-21-1	Ethylene glycol	Use	7.606 tonnes	Yes
107-21-1	Ethylene glycol	Creation	0 tonnes	Yes
107-21-1	Ethylene glycol	Contained in Product	5.099 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	0.569 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained in Product		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	0.392 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained in Product		
NA - M16	Volatile Organic Compounds (VOCs)	Use	34.988 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		

### TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
108-65-6	Propylene glycol methyl ether acetate	Use	1.695 tonnes
108-65-6	Propylene glycol methyl ether acetate	Creation	0 tonnes
8052-41-3	Stoddard solvent	Use	1.079 tonnes
8052-41-3	Stoddard solvent	Creation	0 tonnes
1330-20-7	Xylene (all isomers)	Use	12.083 tonnes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes

### TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	14.857 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
107-21-1	Ethylene glycol					No
NA - M09	PM10 - Particulate Matter <= 10 Microns					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
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	O - Engineering Estimates		0.211 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Fugitive Releases	O - Engineering Estimates		0.358 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	O - Engineering Estimates		0.211 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Fugitive Releases	E2 - Published Emission Factors		0.181 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		34.499 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	E2 - Published Emission Factors		0.489 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		34.988 tonnes

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

CAS RN	Substance Name	Total - Releases to Air
NA - M09	PM10 - Particulate Matter <= 10 Microns	0.569 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.392 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	34.988 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	108-65-6	Propylene glycol methyl ether acetate	1.695 tonnes
Other Sources - Speciated VOCs	8052-41-3	Stoddard solvent	1.079 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	12.083 tonnes

### 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 - M09	PM10 - Particulate Matter <= 10 Microns	9.52	9.33	9.1	8.5	7.92	7.7	7.64	7.6	7.7	7.69	8.6	8.7
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	10.06	9.77	9.52	8.57	7.72	7.37	7.28	7.32	7.47	7.39	8.74	8.79
NA - M16	Volatile Organic Compounds (VOCs)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

### 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
107-21-1	Ethylene glycol	No significant change (i.e. < 10%) or no change	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Changes in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No significant change (i.e. < 10%) or no change	
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
107-21-1	Ethylene glycol		No significant change (i.e. < 10%) or no change	

### Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
107-21-1	Ethylene glycol	Recovery of Organic Substances (not solvents)	C - Mass Balance		2.507 tonnes

### Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
107-21-1	Ethylene glycol	2.507 tonnes

### Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
107-21-1	Ethylene glycol	Recovery of Organic Substances (not solvents)	SSonix Products 2010 Inc.	20 Keefer Rd, St. Catharines, ON, Canada	2.507 tonnes
107-21-1	Ethylene glycol	Recovery of Organic Substances (not solvents)	SSonix Products 2010 Inc.	20 Keefer Rd, St. Catharines, ON, Canada	

### Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
107-21-1	Ethylene glycol	Unusable parts or discards	Changes in production levels	

### 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

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
107-21-1	Ethylene glycol	No	Enters the facility (Use)	7.606 tonnes	19.258 tonnes	2014	-11.652	-60.50
107-21-1	Ethylene glycol	No	Creation	0 tonnes	0 tonnes	2014	0	
107-21-1	Ethylene glycol	No	Contained in Product	5.099 tonnes	15.821 tonnes	2014	-10.722	-67.77
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2012	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	0.569 tonnes	0.524 tonnes	2012	0.045	8.59
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	0.392 tonnes	0.346 tonnes	2014	0.046	13.29
8052-41-3	Stoddard solvent	Yes	Enters the facility (Use)	1.079 tonnes	6.477 tonnes	2014	-5.398	-83.34
8052-41-3	Stoddard solvent	Yes	Creation	0 tonnes	0 tonnes	2014	0	
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	12.083 tonnes	2.457 tonnes	2014	9.626	391.78
1330-20-7	Xylene (all isomers)	Yes	Creation	0 tonnes	0 tonnes	2014	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
107-21-1	Ethylene glycol	Decrease in production levels	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Increase in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Increase in paint usage
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
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	0.569 tonnes	0.524 tonnes	2012	0.045	8.59
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2012	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2012	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to All Media	0 tonnes				
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Air	0.392 tonnes	0.346 tonnes	2014	0.046	13.29
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	
8052-41-3	Stoddard solvent	Yes	Total Releases to Air	1.079 tonnes	6.477 tonnes	2014	-5.398	-83.34
1330-20-7	Xylene (all isomers)	Yes	Total Releases to Air	12.083 tonnes	2.457 tonnes	2014	9.626	391.78

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - M09	PM10 - Particulate Matter <= 10 Microns	Increase in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Increase in paint usage
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	

### Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
107-21-1	Ethylene glycol	No	Total off-site Transfers for Recycling	2.507 tonnes	3.437 tonnes	2014	-0.930	-27.06

### Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
107-21-1	Ethylene glycol	Decrease in production levels	

Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

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
107-21-1	Ethylene glycol	Hitachi prides itself on technological innovation in order to produce high quality electric motors in an environmentally responsible manner. Through this plan, Hitachi determined the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Hitachi prides itself on technological innovation in order to produce high quality electric motors in an environmentally responsible manner. Through this plan, Hitachi determined the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Hitachi prides itself on technological innovation in order to produce high quality electric motors in an environmentally responsible manner. Through this plan, Hitachi determined the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
8052-41-3	Stoddard solvent	Hitachi prides itself on technological innovation in order to produce high quality electric motors in an environmentally responsible manner. Through this plan, Hitachi determined the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.
1330-20-7	Xylene (all isomers)	Hitachi prides itself on technological innovation in order to produce high quality construction trucks in an environmentally responsible manner. Through this plan, Hitachi determined the technical and economic feasibility of each option to determine which, if any, are viable for implementation at this time.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
107-21-1	Ethylene glycol	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
8052-41-3	Stoddard solvent	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
107-21-1	Ethylene glycol	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
8052-41-3	Stoddard solvent	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

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
107-21-1	Ethylene glycol	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
8052-41-3	Stoddard solvent	No		
1330-20-7	Xylene (all isomers)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
107-21-1	Ethylene glycol	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.	
107-21-1	Ethylene glycol	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.	
107-21-1	Ethylene glycol	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.	

[illegible]

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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.	
1330-20-7	Xylene (all isomers)	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
107-21-1	Ethylene glycol	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
8052-41-3	Stoddard solvent	No		
1330-20-7	Xylene (all isomers)	No		

## 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

Hitachi Construction Truck Manufacturing Ltd.

Certifying Official (or authorized delegate)

Dennis Ferraro

Report Submitted by

Dennis Ferraro

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 10/05/2016, I, Dennis Ferraro, 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

107-21-1

Ethylene glycol

NA - M09

PM10 - Particulate Matter <= 10 Microns

NA - M10

PM2.5 - Particulate Matter <= 2.5 Microns

108-65-6

Propylene glycol methyl ether acetate

8052-41-3

Stoddard solvent



## Company Name

Hitachi Construction Truck Manufacturing Ltd.

## Highest Ranking Employee

Dennis Ferraro

## Report Submitted by

Dennis Ferraro

## Website address

ontariotra.com/hitachi-construction-truck/

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
2015	10/05/2016	Hitachi	Ontario	Guelph	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: 3.14.0

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