



## Safety Data Sheet

# Fuel Injector Cleaner

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Fuel Injector Cleaner
<b>Part number</b>	TNDS8652
<b>Product Family</b>	Petroleum distillates
<b>Recommended Use</b>	Fuel injector cleaner.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	Shrader Canada Limited 830 Progress Court Oakville, Ontario Canada L6L 6K1 +1.905.847.0222 www.shradercanada.com
<b>Emergency Phone No.</b>	Immediately contact your local poison control centre. CANUTEC, +1.613.996.6666, for transportation emergencies.

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### Classification

Flammable liquid - Category 3; Aspiration hazard - Category 1

#### Label Elements



Danger

Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting, and other equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash hands and skin thoroughly after handling.

Wear protective gloves/eye protection/face protection.

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IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of fire: Use dry chemical powder, carbon dioxide to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Stoddard solvent	8052-41-3	30-60		
n-Nonane	111-84-2	1-5		
1,2,4-Trimethylbenzene	95-63-6	1-5		
Xylene (mixed isomers)	1330-20-7	0.1-1.0		
Naphthalene	91-20-3	0.1-1.0		
Ethylbenzene	100-41-4	0.1-1.0		
Solvent naphtha	64742-94-5	0.1-1.0		

#### Notes

Any concentration shown as a range is due to batch processing.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Get medical advice or attention if you feel unwell or are concerned.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice or attention.

##### Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Immediately call a Poison Centre or doctor.

#### Most Important Symptoms and Effects, Acute and Delayed

None known.

#### Immediate Medical Attention and Special Treatment

##### Special Instructions

Not applicable.

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## Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

#### Unsuitable Extinguishing Media

Water is not effective for extinguishing a fire. It may not cool product below its flash point.

### Specific Hazards Arising from the Product

Vapours are heavier than air. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

Not known to generate any hazardous decomposition products in a fire.

### Special Protective Equipment and Precautions for Fire-fighters

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid repeated or prolonged skin contact. Do not get in eyes, on skin or on clothing. Do not puncture or incinerate container even when empty. Do not swallow. Do not weld, cut or perform hot work on empty container until all traces of product have been removed. Keep containers tightly closed when not in use or empty.

### Conditions for Safe Storage

Store in a closed container. Store at temperatures not exceeding: 35°C.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Stoddard solvent	100 ppm	Not established	Not established	Not established
n-Nonane	200 ppm	Not established	Not established	Not established
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m3	Not established
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established
Naphthalene	10 ppm	15 ppm	10 ppm	Not established

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Ethylbenzene	20 ppm A3	Not established	100 ppm	Not established
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### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses with side shields.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.  
Neoprene rubber, polyvinyl alcohol, Viton®.

#### Respiratory Protection

Not normally required if product is used as directed.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear yellow liquid.
Odour	Hydrocarbon
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Flash Point	43 °C
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	0.83 at 15 °C
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	< 4 centistokes at 40°C (kinematic)
<b>Other Information</b>	
VOC %	51
Flame projection	Not applicable
NFPA Classification	Combustible liquid, Class II

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

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Heat. Open flames, sparks, static discharge, heat and other ignition sources. Incompatible materials.

#### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

#### Hazardous Decomposition Products

Carbon oxides. Corrosive, oxidizing nitrogen oxides. and other unidentified organic compounds.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

#### Likely Routes of Exposure

Inhalation.

Skin contact.

Eye contact.

Ingestion.

#### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Stoddard solvent	> 5500 mg/m <sup>3</sup> (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 3000 mg/kg (rabbit)
n-Nonane	3200 ppm (rat) (4-hour exposure)	> 15000 mg/kg (rat)	Not available
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
1,2,4-Trimethylbenzene	18000 mg/m <sup>3</sup> (rat) (4-hour exposure)	5000 mg/kg (rat)	Not available
Naphthalene	141 ppm (rat) (4-hour exposure)	490 mg/kg (rat)	> 20000 mg/kg (rabbit)
Ethylbenzene	~ 4000 ppm (rat) (4-hour exposure)	3500 mg/kg (rat)	15380 mg/kg (rabbit)

45% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (inhalation)

45% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (oral)

51% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

#### Skin Corrosion/Irritation

Moderate skin irritant.

#### Serious Eye Damage/Irritation

Mild to moderate irritant. Symptoms include sore, red eyes, and tearing. The vapour also irritates the eyes.

#### STOT (Specific Target Organ Toxicity) - Single Exposure

##### Inhalation

High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness.

##### Skin Absorption

No information was located.

##### Ingestion

If small amounts are swallowed not likely to cause injury. If large amounts are swallowed can cause effects as described for inhalation. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

#### Aspiration Hazard

Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

#### STOT (Specific Target Organ Toxicity) - Repeated Exposure

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No information was located.

### Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer.

Not known to be a skin sensitizer.

### Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Naphthalene	A4	Group 2B	Reasonably anticipated	Not Listed
Ethylbenzene	A3	Group 2B	Not Listed	Not Listed

Contains. (Ethylbenzene) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) contains. (Naphthalene) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans).

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans. Group 3 = Not classifiable as to its carcinogenicity to humans.

### Reproductive Toxicity

#### Development of Offspring

Contains a component that contains xylene, which is reported to be fetotoxic.

No information was located for: Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of or recycle empty containers through an approved waste management facility. Do not reuse empty containers.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1268	Petroleum products, n.o.s.	3	III
IATA (Air)	UN1268	Petroleum products, n.o.s.	3	III
IMDG (Marine)	UN1268	Petroleum products, n.o.s.	3	III

**Special Precautions** Not applicable

### Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

**Emergency Response** 128 EmS F-E, S-E

### Guide No.

### Other Information

ICAO/IATA PI Y344/355/366

Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

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## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

##### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

##### CEPA - National Pollutant Release Inventory (NPRI)

(Stoddard solvent) Part 5.

(1,2,4-Trimethylbenzene) Part 1A.

(Xylene (mixed isomers)) Part 5.

(Naphthalene) Part 1A.

(Ethylbenzene) Part 1A.

(Solvent naphtha) Part 5.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

##### Additional USA Regulatory Lists

CERCLA. (Xylene (mixed isomers)). (Naphthalene). (Ethylbenzene)

SARA Title III - Section 302: Not applicable.

SARA Title III - Section 313. (1,2,4-Trimethylbenzene). (Xylene (mixed isomers)). (Naphthalene). (Ethylbenzene)

California Proposition 65. (Naphthalene). (Ethylbenzene)

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Stoddard solvent). (n-Nonane). (1,2,4-Trimethylbenzene). (Xylene (mixed isomers)).

(Naphthalene). (Ethylbenzene)

Pennsylvania Right To Know. (Stoddard solvent). (n-Nonane). (1,2,4-Trimethylbenzene). (Xylene (mixed isomers)).

(Naphthalene). (Ethylbenzene)

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 1</b>	<b>Flammability - 2</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	Regulatory Compliance		
<b>Phone No.</b>	800.201.9486		
<b>Date of Preparation</b>	January 03, 2019		
<b>Key to Abbreviations</b>	ACGIH® = American Conference of Governmental Hygienists CANUTEC = Canadian Transport Emergency Centre CAS = Chemical Abstract Service CCOHS = Canadian Centre for Occupational Health & Safety CNS = Central nervous system GESTIS = GESTIS Substance Database HSDB® = Hazardous Substances Data Bank IARC = International Agency for Research on Cancer ICAO = International Civil Aviation Organization IMDG = International Maritime Dangerous Goods Code LC = Lethal concentration LD = Lethal dose NFPA = National Fire Protection Association NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration PPM = Parts per million RTECS® = Registry of Toxic Effects of Chemical Substances STEL = Short term exposure limit TDG = Transportation of Dangerous Goods Regulations (Canada) TWA = Time weighted average		
<b>References</b>	Material Safety Data Sheet from manufacturer.		

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CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).  
ECHA - European Chemical Agency, Classification and Labelling Inventory  
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).  
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).  
GESTIS Substance Database  
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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