

Safety Data Sheet

Issue date: 07/31/2015

v 1

Revision Date: 07/31/2015

1 Identification

- **Product identifier**

- **Trade name: Terraclean Silver Fuel System Cleaner**

- **Part number:** 201267

- **Application of the substance / the mixture** fuel injector cleaner

- **Details of the supplier of the safety data sheet**

- **Manufacturer/Supplier:**

- Terraclean, division of, CPS Products Canada Ltd.

- 1324 Blundell Road

- Mississauga, ON, L4Y 1M5

- Canada

- Phone: (905) 615-8620

- **Emergency telephone number:**

- CHEMTREC International +1 (703) 527-3887 (outside the US), 1-800-424-9300 (in the US) 24 hr

2 Hazard(s) identification

Classified according to the criteria of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), OSHA Hazardous Communication Standard (29 CFR 1910.1200) and the Canadian Controlled Products Regulations.

- **Classification of the substance or mixture**

Flam. Liq. 3 H226 Flammable liquid and vapor.

Acute Tox. 4 H332 Harmful if inhaled.

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

STOT RE 1 H372 Causes damage to the central nervous system through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements**

- **GHS label elements**

- The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02

GHS07

GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

- Solvent naphtha (petroleum), medium aliph.

- Naphtha (petroleum), hydrotreated heavy

- **Hazard statements**

- Flammable liquid and vapor.

- Harmful if inhaled.

- May cause genetic defects.

- May cause cancer.

- Causes damage to the central nervous system through prolonged or repeated exposure.

- May be fatal if swallowed and enters airways.

- **Precautionary statements**

- Obtain special instructions before use.

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Do not breathe dust/fume/gas/mist/vapors/spray.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear protective gloves / eye protection / face protection.

Keep container tightly closed.

IF SWALLOWED: Immediately call a poison center/doctor.

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a poison center/doctor if you feel unwell.

Store in a well-ventilated place. Keep cool.

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

- **Additional information:** For Professional Use Only
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients· **Chemical characterization: Mixtures**

- **Description:** Mixture: consisting of the following hazardous components.

· **Chemical components:**

64742-88-7	Solvent naphtha (petroleum), medium aliph.	50-100%
64742-47-8	Distillates (petroleum), hydrotreated light	2.5-<10%
64771-72-8	Paraffins (petroleum), normal C5-20	2.5-<10%
337367-30-3	1-Propene, 2-methyl-, homopolymer, hydroformylation products, reaction products with ammonia	2.5-<10%
64742-48-9	Naphtha (petroleum), hydrotreated heavy	0.1-≤2.5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First-aid measures· **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately rinse with water. Immediately remove all contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

· **After eye contact:**

Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.

- **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed**

May cause eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, with possible redness and swelling.

Breathing difficulty

Coughing

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Harmful if swallowed. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard.

May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard.

- **Indication of any immediate medical attention and special treatment needed**
Medical supervision for at least 48 hours.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
 - **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** See section 10 for additional information.
- **Advice for firefighters**
 - **Protective equipment:**
Wear full protective firegear including self-containing breathing apparatus operated in the positive pressure mode with full facepiece, coat, pants, gloves and boots. Do not use a water jet.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid breathing vapors.
Avoid eye contact. Avoid repeated or prolonged skin contact.
Do not touch or walk through spilled material.
- **Environmental precautions:**
Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
See section 8 for personal protective equipment.
 - **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.
Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
See section 10 for incompatible materials.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry, dark place, away from direct sunlight.
 - **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

Components with limit values that require monitoring at the workplace:	
64742-47-8 Distillates (petroleum), hydrotreated light (2.5-<10%)	
EL (Canada)	TWA: 200 mg/m ³ Skin

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Store protective clothing separately.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Chemical resistant protective gloves

· **Eye protection:**



Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

- **Appearance:**
 - **Form:** Liquid
 - **Color:** Amber colored
- **Odor:** Petroleum-like

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· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	153 °C
· Flash point:	40 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	265 °C
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
· Lower:	0.6 Vol %
· Upper:	6.5 Vol %
· Vapor pressure at 20 °C:	6.6 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	93.0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, open flames, sparks.
- **Incompatible materials:** Strong Oxidizers
- **Hazardous decomposition products:** May include, and are not limited to: oxides of carbon.

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11 Toxicological information· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****ATE (Acute Toxicity Estimates)**

Dermal	LD50	3509 mg/kg (rab)
Inhalative	LC50/4 h	16.5 mg/l (rat)

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

· **Primary irritant effect:**· **on the skin:**

May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.

· **on the eye:** May cause eye irritation.· **Inhalation:**

May cause respiratory tract irritation.

Serious effects may be delayed after exposure.

· **Ingestion:** May be fatal if swallowed and enter airways.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Carcinogenic.

· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

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Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.

- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

<ul style="list-style-type: none"> · UN-Number <ul style="list-style-type: none"> · DOT, IMDG, IATA · TDG 	<p>UN1993 UN1993</p>
<ul style="list-style-type: none"> · UN proper shipping name <ul style="list-style-type: none"> · DOT · TDG · IMDG, IATA 	<p>Flammable liquids, n.o.s. (Turpentine substitute, Solvent naphtha (petroleum), light arom.) Flammable liquids, n.o.s. (Turpentine substitute, Solvent naphtha (petroleum), light arom.) FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Solvent naphtha (petroleum), light arom.)</p>
<ul style="list-style-type: none"> · Transport hazard class(es) <ul style="list-style-type: none"> · DOT <div style="text-align: center; margin: 5px 0;">  </div> <ul style="list-style-type: none"> · Class · Label · TDG <ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3 3 Flammable liquids 3</p>
<ul style="list-style-type: none"> · IMDG, IATA <div style="text-align: center; margin: 5px 0;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3</p>

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<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA · TDG 	<p style="text-align: center;">III III</p>
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: 	<p style="text-align: center;">No</p>
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: 	<p style="text-align: center;">Warning: Flammable liquids 30 F-E,<u>S</u>-E</p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p style="text-align: center;">Not applicable.</p>
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p style="text-align: center;">5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p style="text-align: center;">UN1993, Flammable liquids, n.o.s. (Turpentine substitute, Solvent naphtha (petroleum), light arom.), 3, III</p>

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Sara

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances): 	None of the ingredients is listed.
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<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings): 	None of the ingredients is listed.
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<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act): 	
64742-88-7	Solvent naphtha (petroleum), medium aliph.
64742-47-8	Distillates (petroleum), hydrotreated light
64771-72-8	Paraffins (petroleum), normal C5-20
64742-48-9	Naphtha (petroleum), hydrotreated heavy

· **Proposition 65**

<ul style="list-style-type: none"> · Chemicals known to cause cancer: 	None of the ingredients is listed.
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<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females: 	None of the ingredients is listed.
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<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males: 	None of the ingredients is listed.
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· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· Canadian substance listings:**· Canadian Domestic Substances List (DSL)**

64742-88-7	Solvent naphtha (petroleum), medium aliph.
64742-47-8	Distillates (petroleum), hydrotreated light
64771-72-8	Paraffins (petroleum), normal C5-20
64742-48-9	Naphtha (petroleum), hydrotreated heavy

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word Danger**· Hazard-determining components of labeling:**

Solvent naphtha (petroleum), medium aliph.

Naphtha (petroleum), hydrotreated heavy

· Hazard statements

Flammable liquid and vapor.

Harmful if inhaled.

May cause genetic defects.

May cause cancer.

Causes damage to the central nervous system through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· Precautionary statements

Obtain special instructions before use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear protective gloves / eye protection / face protection.

Keep container tightly closed.

IF SWALLOWED: Immediately call a poison center/doctor.

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

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IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a poison center/doctor if you feel unwell.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Contact:** Engineering Department
- **Issue Date** July 31, 2015
- **Revision Changes:** v 1.0 - original SDS release (July 31, 2015)
- **Abbreviations and acronyms:**
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Liq. 3: Flammable liquids, Hazard Category 3
 - Acute Tox. 4: Acute toxicity, Hazard Category 4
 - Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
 - Carc. 1B: Carcinogenicity, Hazard Category 1B
 - STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1
 - Asp. Tox. 1: Aspiration hazard, Hazard Category 1

NA