

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1


Last Revision: 21.09.2015


SECTION 1: Identification of the substance/mixture and of the company/undertaking


- **1.1 Product identifier**
 - **Product name: Terraclean Fuel and Post Combustion Cleaner**
 - **Part number:** 201220, 201420
 - **Application of the substance / the mixture**
Automotive Combustion Chamber Deposit Cleaner
- **1.3 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
 - **email of person responsible:** customerservice@terraclean.net
- **1.4 Emergency telephone number:** CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
Flam. Aerosol 1 H222 - H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
Press. Gas C H280 Contains gas under pressure; may explode if heated.
Muta. 1B H340 May cause genetic defects.
Carc. 1A H350 May cause cancer.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**


GHS02


GHS04


GHS08
 - **Signal word** Danger
 - **Hazard-determining components of labelling:**
Gasoline, natural benzene
 - **Hazard statements**
H222 - H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H340 May cause genetic defects.
H350 May cause cancer.
H304 May be fatal if swallowed and enters airways.
 - **Precautionary statements**
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.

(Contd. on page 2)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 1)

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P331 Do NOT induce vomiting.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

Restricted to professional users.

Buildup of explosive mixtures possible without sufficient ventilation.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components:**

| | | |
|-------------------------------------|---|-----------|
| CAS: 8006-61-9 EINECS: 232-349-1 | Gasoline, natural Flam. Liq. 2, H225; Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304 | 98-100% |
| CAS: 124-38-9 EINECS: 204-696-9 | carbon dioxide Press. Gas L, H280 | 0.1-≤2.5% |
| CAS: 71-43-2 EINECS: 200-753-7 | benzene Flam. Liq. 2, H225; Muta. 1B, H340; Carc. 1A, H350; STOT RE 1, H372; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | 0.1-<1% |

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

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· **After skin contact:**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

· **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:** DO NOT INDUCE VOMITING. Get immediate medical attention.

· **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Disorientation

Nausea

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

(Contd. on page 3)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 2)

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

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.

· **4.3 Indication of any immediate medical attention and special treatment needed**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water

· **5.2 Special hazards arising from the substance or mixture**

See section 10 for additional information.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Recommend wearing self-contained breathing apparatus. Water may cause splattering.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

· **6.3 Methods and material for containment and cleaning up:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **6.4 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.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

(Contd. on page 4)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 3)

- Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Do not seal receptacle gas tight.
 - Store in cool, dry conditions in well sealed receptacles.
 - Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

· 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

124-38-9 carbon dioxide (1-≤2.5%)

| | |
|-----|---|
| WEL | Short-term value: 27400 mg/m ³ , 15000 ppm |
| | Long-term value: 9150 mg/m ³ , 5000 ppm |

71-43-2 benzene (0.3-<1%)

| | |
|-----|---|
| WEL | Long-term value: 3.25 mg/m ³ , 1 ppm |
| | Carc; Sk |

- **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls

- **Personal protective equipment:**

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.

- **Respiratory protection:**

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Chemical resistant protective gloves (EN 374)

- **Eye protection:**



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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- **General Information**

- **Appearance:**

| | |
|------------------|------------------------|
| · Form: | Gas/Pressurized Liquid |
| · Colour: | Clear |

(Contd. on page 5)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 4)

| | |
|---|---|
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition | |
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | > 29 °C |
| · Flash point: | -30 °C |
| · Flammability (solid, gaseous): | Not applicable. |
| · Ignition temperature: | |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · Explosion limits: | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Vapour pressure: | Not determined. |
| · Density at 20 °C: | 0.74 g/cm ³ |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not applicable. |
| · 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: | 0.5 % |
| · 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

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

GB

(Contd. on page 6)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 5)

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

| | | |
|--------|------|--------------------|
| Dermal | LD50 | 9600 mg/kg (mouse) |
|--------|------|--------------------|

71-43-2 benzene

| | | |
|------------|------------------|-------------------|
| Oral | LD50 | 4894 mg/kg (rat) |
| Dermal | LD50 | 48 mg/kg (mouse) |
| Inhalative | LC50/4 h (vapor) | 9980 mg/L (mouse) |

· Primary irritant effect:

- **Skin corrosion/irritation** May cause mild skin irritation.
- **Serious eye damage/irritation**
Based on available data, the classification criteria are not met.
- **Inhalation:** May cause respiratory tract irritation.
- **Ingestion:** May be fatal if swallowed and enter airways.
- **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity**
May cause genetic defects.
 - **Carcinogenicity**
May cause cancer.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

GB

(Contd. on page 7)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 6)

SECTION 13: Disposal considerations

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

SECTION 14: Transport information

- | | |
|--|--|
| · 14.1 UN-Number | |
| · ADR, IMDG, IATA | UN1950 |
| · 14.2 UN proper shipping name | |
| · ADR | UN1950 AEROSOLS |
| · IMDG, IATA | AEROSOLS |
| · 14.3 Transport hazard class(es) | |
| · ADR | |
| · Class | 2 Gases. |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Gases. |
| · EMS Number: | F-D,S-U |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 1L |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E0 Not permitted as Excepted Quantity |
| · UN "Model Regulation": | UN1950, AEROSOLS, 2 |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No REACH Annex XVII restrictions
Contains no REACH candidate substance
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **Seveso category P3b** FLAMMABLE AEROSOLS
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t

(Contd. on page 8)

Safety data sheet
according to Regulation (EU) No. 453/2010

Issue date: 21.09.2015

Version 1

Last Revision: 21.09.2015

Product name: Terraclean Fuel and Post Combustion Cleaner

(Contd. of page 7)

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

- **Issue Date:** September 21, 2015

· **Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H340 May cause genetic defects.
- H350 May cause cancer.
- H372 Causes damage to organs through prolonged or repeated exposure.

- **Contact:** Engineering Department

- **Revision Changes:** v 1.0 - original release (September 21, 2015)

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 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. Aerosol 1: Flammable aerosols, Hazard Category 1
 Press. Gas C: Gases under pressure: Compressed gas
 Press. Gas L: Gases under pressure: Liquefied gas
 Flam. Liq. 2: Flammable liquids, Hazard Category 2
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
 Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
 Carc. 1A: Carcinogenicity, Hazard Category 1A
 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

GB