

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

1 Identification

- **Product identifier**

- **Trade name: Terraclean Multi-Fluid Cleaner**

- **Part number:** 206235

- **Application of the substance / the mixture** cleansing product

- **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.

- STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Warning

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

- 4-methylpentan-2-ol

- oleic acid, pure

- **Hazard statements**

- Flammable liquid and vapor.

- May cause respiratory irritation.

- **Precautionary statements**

- Keep away from heat/sparks/open flames/hot surfaces. No smoking.

- Avoid breathing dust/fume/gas/mist/vapors/spray

- Call a POISON CENTER/doctor if you feel unwell.

- In case of fire: Use for extinction: CO₂, sand, extinguishing powder.

- Store locked up.

- 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

(Contd. on page 2)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: **Terraclean Multi-Fluid Cleaner**

(Contd. of page 1)

- **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:		
108-11-2	4-methylpentan-2-ol	10-<25%
112-80-1	oleic acid, pure	2.5-<10%

- **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:**
Wash with plenty of soap and water. Remove 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:**
Rinse mouth with water.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If conscious, give small quantities of water to drink.
Stop if victim feels sick.
Do not induce vomiting.
If symptoms persist consult doctor.
 - **Information for doctor:** Treat Symptomatically
 - **Most important symptoms and effects, both acute and delayed**
Coughing
May cause respiratory tract irritation.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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.

NA

(Contd. on page 3)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: **Terraclean Multi-Fluid Cleaner**

(Contd. of page 2)

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Remove persons from danger area.

Avoid breathing vapor or mist.

Do not touch or walk through spilled material.

- **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.

Prevent from spreading (e.g. by damming-in or oil barriers).

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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**

Avoid contact with the eyes and skin.

Avoid contact with clothing.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Keep in the original containers.

See section 8 for personal protective equipment.

Do not reuse container.

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep away from ignition sources and high temperature materials.

- **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:**

Store away from water.

Store in a cool dry place in tightly closed containers.

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

NA

(Contd. on page 4)

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 3)

8 Exposure controls/personal protection

· **Control parameters**

· Components with limit values that require monitoring at the workplace:	
108-11-2 4-methylpentan-2-ol (10-<25%)	
PEL (USA)	TWA: 100 mg/m ³ , 25 ppm Skin
REL (USA)	STEL: 165 mg/m ³ , 40 ppm TWA: 100 mg/m ³ , 25 ppm Skin
TLV (USA)	STEL: 167 mg/m ³ , 40 ppm TWA: 104 mg/m ³ , 25 ppm Skin
EL (Canada)	STEL: 40 ppm TWA: 25 ppm Skin
EV (Canada)	STEL: 167 mg/m ³ , 40 ppm TWA: 104 mg/m ³ , 25 ppm 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.
- Wash hands before breaks and at the end of work.
- Do not eat, drink, smoke or sniff while working.
- Remove all soiled and contaminated clothing.

· **Protection of hands:**



Chemical resistant protective gloves

· **Eye protection:**



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

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

- **Form:** Liquid
- **Color:** Amber colored
- **Odor:** Mild
- **Odor threshold:** Not determined.

· **pH-value:** Not determined.

(Contd. on page 5)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 4)

· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	131 °C
· Flash point:	45 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	305 °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:	1.0 Vol %
· Upper:	5.5 Vol %
· Vapor pressure at 20 °C:	7 hPa
· Density:	Not determined.
· Relative density at 20 °C	0.88
· Vapor 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:	0.0 %
· 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.

NA

(Contd. on page 6)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 5)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

108-11-2 4-methylpentan-2-ol

Oral LD50 2590 mg/kg (rat)

Dermal LD50 3560 mg/kg (rabbit)

112-80-1 oleic acid, pure

Oral LD50 74000 mg/kg (rat)

· Primary irritant effect:

· on the eye:

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

· Inhalation:

May cause respiratory tract irritation.
coughing

· Additional toxicological information:

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

Irritant

· 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:

112-80-1 oleic acid, pure

LC50 (96 h) 205 mg/L (fish)

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

· Bioaccumulative potential

108-11-2 4-methylpentan-2-ol

Bioaccumulation LogPow 1.43 (-) (potential low)

112-80-1 oleic acid, pure

Bioaccumulation LogPow 7.73 (-) (potential high)

· Mobility in soil No further relevant information available.

· Additional ecological information:

· General notes:

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

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.

(Contd. on page 7)

NA

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 6)

- **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 · DOT · TDG · IMDG, IATA 	<p>UN1993 UN1993 UN2053</p>
<ul style="list-style-type: none"> · UN proper shipping name · DOT · TDG · IMDG, IATA 	<p>Flammable liquids, n.o.s. (Methyl isobutyl carbinol) Flammable liquids, n.o.s. (Methyl isobutyl carbinol) METHYL ISOBUTYL CARBINOL mixture</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	
<ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3</p>
<ul style="list-style-type: none"> · TDG · Class · Label 	<p>3 Flammable liquids 3</p>
<ul style="list-style-type: none"> · IMDG, IATA 	
<ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3</p>
<ul style="list-style-type: none"> · Packing group · DOT, IMDG, IATA · TDG 	<p>III III</p>

(Contd. on page 8)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 7)

· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F-E,S-D
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2053 METHYL ISOBUTYL CARBINOL MIXTURE, 3, III

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	

· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	

· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	

· **Proposition 65**

· Chemicals known to cause cancer:	
None of the ingredients is listed.	

· Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	

· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	

· 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.	

(Contd. on page 9)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 8)

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

None of the ingredients is listed.

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

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

108-11-2 4-methylpentan-2-ol

112-80-1 oleic acid, pure

· **Hazard pictograms**

GHS02 GHS07

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

4-methylpentan-2-ol

oleic acid, pure

· **Hazard statements**

Flammable liquid and vapor.

May cause respiratory irritation.

· **Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray

Call a POISON CENTER/doctor if you feel unwell.

In case of fire: Use for extinction: CO₂, sand, extinguishing powder.

Store locked up.

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** November 24, 2015· **Revision Changes:** v 1.0 - original SDS release (November 24, 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

(Contd. on page 10)

Safety Data Sheet

Issue date: 11/24/2015

v 1

Last Revision Date: 11/24/2015

Trade name: Terraclean Multi-Fluid Cleaner

(Contd. of page 9)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Flam. Liq. 3: Flammable liquids, Hazard Category 3

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

NA