

## Safety Data Sheet

Issue date: 10.02.2017

v 3

Last Revision Date: 17.05.2015

**1 Identification**· **Product identifier**· **Trade name: Cooling System Treatment**· **Part number:** 202220· **Application of the substance / the mixture** cooling system additive· **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· **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**· **Classification of the substance or mixture**

Repr. 1 H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

Aquatic Acute 3 H402 Harmful to aquatic life.

· **Label elements**· **GHS label elements**

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

· **Hazard pictograms**

GHS08

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

Potassium p-tert-Butylbenzoate

· **Hazard statements**

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life.

· **Precautionary statements**

Obtain special instructions before use.

Avoid contact during pregnancy/while nursing.

Use personal protective equipment as required.

Avoid release to the environment.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents in accordance with local regulations.

· **Additional information:** Restricted to professional users.

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- **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:**

16518-26-6	Potassium p-tert-Butylbenzoate	≤ 2,5%
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- **Additional information:** For the wording of the listed hazard 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 wash with water and soap and rinse thoroughly.
- **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 out mouth. Do not induce vomiting. If symptoms persist consult doctor.
- **Information for doctor:** Treat Symptomatically
  - **Most important symptoms and effects, both acute and delayed** See section 11.
  - **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** See section 10 for additional information.
- **Advice for firefighters**
- **Protective equipment:**  
Recommend wearing self-contained breathing apparatus. Water may cause splattering.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.

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- **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.
- **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.
  - **Information about protection against explosions and fires:**  
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:** None.
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
    - **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

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## · 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: Light yellow
- Odor: Odorless
- Odor threshold: Not determined.

· pH-value at 20 °C: 8,6-9

#### · Change in condition

- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

#### · Ignition temperature:

- Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

#### · Explosion limits:

- Lower: Not determined.
- Upper: Not determined.

· Vapor pressure: Not determined.

· Density: Not determined.

- Relative density at 20 °C: 1-1,05
- 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.

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· **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:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** extremely high or low temperatures
- **Incompatible materials:** strong acids. strong bases.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	21115 mg/kg
<b>16518-26-6 Potassium p-tert-Butylbenzoate</b>		
Oral	LD50	500 mg/kg (ATE)
<b>75-21-8 ethylene oxide</b>		
Oral	LD50	72 mg/kg (rat)
Inhalative	LC50/4 h (vapor)	2671 mg/L (rat)

· **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.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

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

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

123-91-1	1,4-dioxane	2B
75-21-8	ethylene oxide	1
67-63-0	propan-2-ol	3

· **NTP (National Toxicology Program)**

123-91-1	1,4-dioxane	R
75-21-8	ethylene oxide	K

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

75-21-8 ethylene oxide

**12 Ecological information**

- **Toxicity**
  - **Aquatic toxicity:** Harmful to aquatic life with long lasting effects.
- **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.
- **Ecotoxicological effects:**
  - **Remark:** Harmful to fish
- **Additional ecological information:**
  - **General notes:**
    - Harmful to aquatic organisms
    - Generally not hazardous for water
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** Avoid release to the environment.

**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**

- |                                     |               |
|-------------------------------------|---------------|
| · <b>UN-Number</b>                  |               |
| · DOT, IMDG, IATA                   | Not Regulated |
| · TDG                               | Not Regulated |
| · <b>UN proper shipping name</b>    |               |
| · DOT, IMDG, IATA                   | Not Regulated |
| · TDG                               | Not Regulated |
| · <b>Transport hazard class(es)</b> |               |
| · DOT, IMDG, IATA                   |               |
| · Class                             | Not Regulated |
| · TDG                               |               |
| · Class                             | Not Regulated |

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· <b>Packing group</b>	
· DOT, IMDG, IATA	Not Regulated
· TDG	Not Regulated
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user</b>	Not applicable.
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Not Regulated

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

· Sara

· **Section 355 (extremely hazardous substances):**

75-21-8 ethylene oxide

· **Section 313 (Specific toxic chemical listings):**

123-91-1 1,4-dioxane

75-21-8 ethylene oxide

7632-00-0 sodium nitrite

67-63-0 propan-2-ol

107-21-1 ethanediol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**· **Chemicals known to cause cancer:**

123-91-1 1,4-dioxane

75-21-8 ethylene oxide

· **Chemicals known to cause reproductive toxicity for females:**

75-21-8 ethylene oxide

· **Chemicals known to cause reproductive toxicity for males:**

75-21-8 ethylene oxide

· **Chemicals known to cause developmental toxicity:**

75-21-8 ethylene oxide

107-21-1 ethanediol

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

123-91-1 1,4-dioxane

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· TLV (Threshold Limit Value established by ACGIH)		
123-91-1	1,4-dioxane	A3
75-21-8	ethylene oxide	A2
67-63-0	propan-2-ol	A4
107-21-1	ethanediol	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)		
123-91-1	1,4-dioxane	
75-21-8	ethylene oxide	

## · 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%)	
None of the ingredients is listed.	

**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** 10/FEB/2017· **Revision Changes:**

v 1.0 - original SDS release (17/MAY/2015)

v 2.0 - revised formula (14/JAN/2016)

v 3.0 - revised section 2 (10/FEB/2017)

· **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

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

NIOSH: National Institute for Occupational Safety

Repr. 1: Reproductive toxicity – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3