

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

1 Identification

- **Product identifier**

- **Trade name: A/C Tune Up**

- **Part number:** 203220

- **Application of the substance / the mixture** air conditioning refrigerant 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: 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

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**

Press. Gas H280 Contains gas under pressure; may explode if heated.

- **Label elements**

- **GHS label elements**

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

- **Hazard pictograms**



GHS04

- **Signal word** Warning

- **Hazard statements**

- Contains gas under pressure; may explode if heated.

- **Precautionary statements**

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

- Do not pierce or burn, even after use.

- Use only outdoors or in a well-ventilated area.

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

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

- **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.

(Contd. on page 2)

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: **A/C Tune Up**

(Contd. of page 1)

- **Chemical components:** Not Applicable
- **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:** If symptoms persist consult doctor.
- **Information for doctor:**
 - **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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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**
Ensure adequate ventilation
Avoid formation of dust.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb liquid components with liquid-binding material.
- **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**
Use only in well ventilated areas.
Use good personal hygiene practices
Avoid contact with the eyes and skin.
Avoid contact with clothing.
Avoid splashes or spray in enclosed areas.

(Contd. on page 3)

NA

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: **A/C Tune Up**

(Contd. of page 2)

- Pressurized container: May burst if heated.
- **Information about protection against explosions and fires:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
See section 10 for incompatible materials.
Observe official regulations on storing packagings with pressurized containers.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** Protect from heat and 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:****811-97-2 1,1,1,2-Tetrafluorethan (50-100%)**

WEEL (USA) | TWA: 1000 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.

· **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:**

Aerosol

· **Color:**

Clear

· **Odor:**

Ether-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**· **Melting point/Melting range:**

Undetermined.

(Contd. on page 4)

NA

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: **A/C Tune Up**

(Contd. of page 3)

· Boiling point/Boiling range:	-26 °C
· Flash point:	Not applicable, as aerosol.
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure at 20 °C:	5716 hPa
· Density:	Not determined.
· Relative density at 20 °C	1.2
· Vapor 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:	0.0 %
· 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:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Heat, open flames, sparks.
- **Incompatible materials:** No further relevant information available.

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**
 - **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:** Sensitizing effect by skin contact is possible with prolonged exposure.

(Contd. on page 5)

NA

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: **A/C Tune Up**

(Contd. of page 4)

· **Additional toxicological information:**· **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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· **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**· **UN-Number**· **DOT, IMDG, IATA**

UN1950

· **TDG**

UN1950

· **UN proper shipping name**· **DOT, IATA**

Aerosols, non-flammable

· **TDG**

Aerosols, non-flammable

· **IMDG**

AEROSOLS

(Contd. on page 6)

NA

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: **A/C Tune Up**

(Contd. of page 5)

· Transport hazard class(es)

· DOT



· Class 2.2
· Label 2.2

· TDG

· Class 2.2

· IMDG, IATA



· Class 2.2
· Label 2.2

· Packing group

· DOT, IMDG, IATA Not Regulated
· TDG Not Regulated

· Environmental hazards:

Not applicable.

· Special precautions for user

Warning: Gases

· Danger code (Kemler):
· EMS Number:
· Stowage Code

-
F-D,S-U
SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

· Segregation Code

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· IMDG

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E0
Not permitted as Excepted Quantity

· DOT (Size/package type):

LTD QTY, Consumer Commodity ORM-D (71g / aerosol can)

(Contd. on page 7)

NA

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: **A/C Tune Up**

(Contd. of page 6)

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.2**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.

· **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%)**

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** January 20, 2016

(Contd. on page 8)

NA

Safety Data Sheet

Issue date: 01/20/2016

v 1

Last Revision Date: 01/20/2016

Trade name: A/C Tune Up

(Contd. of page 7)

· **Revision Changes:** v 1.0 - original SDS release (January 20, 2016)

· **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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

Press. Gas: Gases under pressure: Compressed gas

NA