**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>1,1,1,2-Tetrafluoroethane</td>
</tr>
<tr>
<td>CAS No.</td>
<td>811-97-2</td>
</tr>
<tr>
<td>Trade Name</td>
<td>Perfect Data Dusters 105598-1, 105599-1, 105798-1, 105798-5</td>
</tr>
<tr>
<td>Product Code</td>
<td>M-5702-1, M-5693-1, M-5751-1</td>
</tr>
</tbody>
</table>

**Relevant identified uses of the substance or mixture and uses advised against**

- Identified Use(s): Cleaning product
- Uses Advised Against: None
- Company Identification: Spray Products Corporation
  - P.O. Box 737
  - Norristown, PA 19404
- Telephone: (610) 277-1010
- Fax: (610) 277-4390
- E-Mail (competent person): sds@sprayproducts.com

**Emergency telephone number**

- Emergency Phone No.: Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

- HPR/WHIMIS 2015/GHS Classification: Liquefied gas; Simple Asphyxiant

**Label elements**

- Hazard Symbol

**Signal Word(s)**

- WARNING

**Hazard Statement(s)**

- Contains gas under pressure; may explode if heated.
- May displace oxygen and cause rapid suffocation.

**Precautionary Statement(s)**

- Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.
- Do not use in confined spaces. Store in a well-ventilated place.
- Avoid breathing gas.
- Keep out of reach of children.

**Other hazards**

- Intentional inhalation of gas from the container may be fatal.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>% wt.</th>
<th>CAS No.</th>
<th>Hazard classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-Tetrafluoroethane</td>
<td>100</td>
<td>811-97-2</td>
<td>Liquified Gas; H280 Simple Asphyxiant</td>
</tr>
</tbody>
</table>

Additional Information - None

SECTION 4: FIRST AID MEASURES

**Description of first aid measures**

**Inhalation**
Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.

**Skin Contact**
Wash affected skin with soap and water. If symptoms develop, obtain medical attention.

**Eye Contact**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur obtain medical attention.

**Ingestion**
Unlikely to be required but if necessary treat symptomatically. Do not give anything by mouth to an unconscious person. Seek medical treatment.

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

Liquid contact with skin or eyes may cause frostbite.

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

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

**Extinguishing Media**

- Suitable Extinguishing Media
  - Non-combustible. As appropriate for surrounding fire.

- Unsuitable Extinguishing Media
  - None anticipated

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

None

**Advice for fire-fighters**

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid contact with skin and eyes. Avoid breathing gas.

**Environmental precautions**

Not normally required.

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

Gaseous. Not normally required.

**Reference to other sections**

None

**Additional Information**

None
Perfect Data Dusters

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Use product in a well-ventilated area only. Do not use in confined spaces.

Conditions for safe storage, including any incompatibilities
- Storage temperature
  Keep in a cool, well ventilated place. Store at temperatures not exceeding 50°C/122°F.
- Incompatible materials
  This product should be stored away from sources of strong heat or oxidising chemicals.

Specific end use(s)
Cleaning product

SECTION 8: EXPOSURE CONTROLS/PERSERSONAL PROTECTION

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>(8hr TWA)</th>
<th>(STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>OEL</td>
<td>TLV (ACGIH)</td>
</tr>
<tr>
<td>None</td>
<td>811-97-2</td>
<td>-----</td>
<td>-----</td>
</tr>
</tbody>
</table>

*Assure minimum oxygen content of work atmosphere.

Recommended monitoring method
Electrochemical sensor (% O₂)

Exposure controls

Appropriate engineering controls
Ensure adequate ventilation.

Personal protection equipment

Eye/face protection
Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other)
Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber)

Respiratory protection
Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. A dust mask is not acceptable.

Thermal hazards
Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls
None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquified gas</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odour</td>
<td>Ethereal</td>
</tr>
<tr>
<td>Odour Threshold (ppm)</td>
<td>Not available</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point (°C) / Freezing Point (°C)</td>
<td>-108</td>
</tr>
</tbody>
</table>
Boiling point/boiling range (°C): -26
Flash Point (°C) Gaseous - Not applicable
Evaporation Rate Gaseous
Flammability (solid, gas) Non-flammable
Explosive Limit Ranges Non-flammable
Vapour pressure (Pascal) 5.8 x 10^5 (@ 21°C)
Vapour Density (Air=1) 3.52 (@ 25°C)
Density (g/ml) Not available
Solubility (Water) 0.95% (@ 21°C)
Solubility (Other) Not available
Partition Coefficient (n-Octanol/water) Not available
Auto Ignition Point (°C) >743
Decomposition Temperature (°C) Not available
Kinematic Viscosity (cSt) Not available
Explosive properties Not explosive.
Oxidising properties Not oxidising.
Other information Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.
Chemical stability Stable.
Possibility of hazardous reactions None anticipated.
Conditions to avoid Avoid contact with heat and ignition sources.
Incompatible materials Strong oxidising agents.
Hazardous decomposition product(s) None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Acute toxicity (Inhalation) LCLo >= 567000 ppm
4 hr exposure

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity:
Short term Not available
Long Term Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Land transport (TDG)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>3159</td>
<td>3159</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>1,1,1,2-Tetrafluorethane</td>
<td>1,1,1,2-Tetrafluorethane</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.2</td>
<td>2.2</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
</tbody>
</table>

Page: 4/5
SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
This product has been classified in accordance to CPR Section 12 and the MSDS contains all the information required by the CPR.

Canada (DSL/NDSL) - All chemicals listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: March 12, 2017

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/SECTION 3:

Hazard Statement(s)
- H280: Contains gas under pressure; may explode if heated.

Training advice: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.