1 Identification

- **Product name:** Compressed Air Spray
- **Part number:** 200-20000, 200-20005
- **CAS Number:** 811-97-2
- **EC number:** 212-377-0

- **Application of the substance / the mixture** Cleaning agent/ Cleaner

- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  Allied High Tech Products Inc.
  2376 East Pacifica Place
  USA-RANCHO DOMINGUEZ, CA 90220
  USA
  info@alliedhightech.com

- **Information department:** Product safety department
- **Emergency telephone number:**
  During normal opening times: +1 (310) 635-2466
  Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification

- **Classification of the substance or mixture**
  !
  GHS07
  Acute Tox. 4 H302 Harmful if swallowed.

  - **Label elements**
  - **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**
    !
    GHS07

  - **Signal word** Warning

  - **Hazard-determining components of labeling:**
    1,1,1,2-tetrafluoroethane

  - **Hazard statements**
    Harmful if swallowed.

  - **Precautionary statements**
    Wash thoroughly after handling.

(Contd. on page 2)
Product name: Compressed Air Spray

Do not eat, drink or smoke when using this product.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- Classification system:
  - NFPA ratings (scale 0 - 4)
    - Health = 1
    - Fire = 0
    - Reactivity = 1
  - HMIS-ratings (scale 0 - 4)
    - Health = 1
    - Fire = 0
    - Reactivity = 1
- Other hazards
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  811-97-2 1,1,1,2-tetrafluoroethane
- Identification number(s)
- EC number: 212-377-0

4 First-aid measures

- Description of first aid measures
  - General information:
    Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: Immediately call a doctor.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed
      Allergic reactions
      Coughing
      Headache
      Dizziness
      Breathing difficulty
      Nausea
    - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  - Special hazards arising from the substance or mixture No further relevant information available.
  - Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Not required.
Product name: Compressed Air Spray

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13.
- 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.
- Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th>8,000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-2:</td>
<td>13,000 ppm</td>
</tr>
<tr>
<td>PAC-3:</td>
<td>27,000 ppm</td>
</tr>
</tbody>
</table>

7 Handling and storage

- Handling:
- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Do not spray on a naked flame or any incandescent material.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles:
    Protect from sunlight.
    Store at temperatures not exceeding 50°C.
    Observe official regulations on storing packagings with pressurized containers.
- 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

- Additional information about design of technical systems: No further data; see item 7.
- Control parameters

| 811-97-2, 1,1,1,2-tetrafluoroethane | WEEL [Long-term value: 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:
  Keep away from foodstuffs, beverages and feed.
  Wash hands before breaks and at the end of work.
- Breathing equipment:
  Not required.
  Use suitable respiratory protective device in case of insufficient ventilation.
- Protection of hands:
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
- Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Product name: Compressed Air Spray

· Eye protection: Not required.

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
  · Appearance:
    Form: Aerosol
    Color: Colorless
    Odor: Ether-like
    Odor threshold: Not determined.
  · pH-value: Not determined.
  · Change in condition
    Melting point/Melting range: Undetermined.
    Boiling point/Boiling range: -26.2 °C (-15.2 °F)
  · Flash point: Not applicable, as aerosol.
  · Flammability (solid, gaseous): Not applicable.
  · Decomposition temperature: Not determined.
  · Auto igniting: Not determined.
  · Danger of explosion: Product does not present an explosion hazard.
  · Explosion limits:
    Lower: Not determined.
    Upper: Not determined.
  · Vapor pressure at 20 °C (68 °F): 6619 hPa (4,964.7 mm Hg)
  · Density at 20 °C (68 °F): 1.226 g/cm³ (10.23097 lbs/gal)
  · Relative density: Not determined.
  · Vapor density at 25 °C (77 °F): 3.6 (Air = 1)
  · Evaporation rate: >1 (CCL4 = 1)
  · Solubility in / Miscibility with
    Water at 20 °C (68 °F): 1.93 g/l
  · Partition coefficient (n-octanol/water): Not determined.
  · Viscosity:
    Dynamic at 20 °C (68 °F): 0.22 mPas
    Kinematic: Not determined.
    VOC content: 0.00 %
    0.0 g/l / 0.00 lb/gal
  · 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
  Protect from sunlight.
  Keep away from open flames. - No smoking.
  Do not mix with alkalis.
· Incompatible materials: No further relevant information available.
· Hazardous decomposition products:
  Hydrogen fluoride

(Contd. on page 5)
Product name: Compressed Air Spray

Hydrocarbons
Carbon monoxide and carbon dioxide

Additional information: Hazardous decomposition products may form during combustion.

11 Toxicological information

· Information on toxicological effects
  · Acute toxicity:
    · LD/LC50 values that are relevant for classification:
      811-97-2 1,1,1,2-tetrafluoroethane
      Oral LD50 2,000 mg/kg (rat)
    · Primary chemical irritant effect:
      · on the skin: No irritant effect.
      · on the eye: No irritating effect.
    · Sensitization: No sensitizing effects known.
    · Additional toxicological information: Contact with liquid form may cause frostbite.
  · Carcinogenic categories
    · IARC (International Agency for Research on Cancer)
      Substance is not listed.
    · NTP (National Toxicology Program)
      Substance is not listed.
    · OSHA-Ca (Occupational Safety & Health Administration)
      Substance is not listed.

12 Ecological information

· Toxicity
  · Aquatic toxicity:
    EC50 (48 h) 980 mg/l (daphnia)
    LC50 (96 h) 450 mg/l (rainbow trout)
  · 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 (Assessment by list): 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: Contact waste processors for recycling information.
· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.
## 14 Transport information

<table>
<thead>
<tr>
<th>· UN-Number</th>
<th>UN1950</th>
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<tbody>
<tr>
<td>· DOT, IMDG, IATA</td>
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</tbody>
</table>

| · UN proper shipping name | Aerosols |
| · DOT | |
| · IMDG, IATA | AEROSOLS |

| · Transport hazard class(es) | |
| · DOT | |
| · IMDG, IATA | |

| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Limited quantities (LQ) | 1L |
| · UN "Model Regulation": | UN 1950 AEROSOLS, 2.2 |

| · Transport/Additional information: | |
| · Packing group | not regulated |
| · DOT, IMDG, IATA | |
| · Environmental hazards: | No |
| · Marine pollutant: | |
| · Special precautions for user | Not applicable. |
| · EMS Number: | F-D,S-U |
| · Stowage Code | 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 | |
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - § 2655 (extremely hazardous substances):
    Substance is not listed.

- § 313 (Specific toxic chemical listings):
  Substance is not listed.

- TSCA (Toxic Substances Control Act):
  ACTIVE

- Hazardous Air Pollutants
  Substance is not listed.

- Proposition 65
  - Chemicals known to cause cancer:
    Substance is not listed.
  - Chemicals known to cause reproductive toxicity for females:
    Substance is not listed.
  - Chemicals known to cause reproductive toxicity for males:
    Substance is not listed.
  - Chemicals known to cause developmental toxicity:
    Substance is not listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    Substance is not listed.
  - TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.
  - NIOSH-CA (National Institute for Occupational Safety and Health)
    Substance is not listed.

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

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.

- Department issuing SDS: Environment protection department.
- Contact: Kim Dermic
- Last revision: 04/30/2020 / 2.0
- 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
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  NFPA: National Fire Protection Association (USA)
  HMIS: Hazardous Materials Identification System (USA)
  VOC: Volatile Organic Compounds (USA, EU)
  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
  OSHA: Occupational Safety & Health
  TLV: Threshold Limit Value

(Contd. of page 8)
Product name: Compressed Air Spray

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4